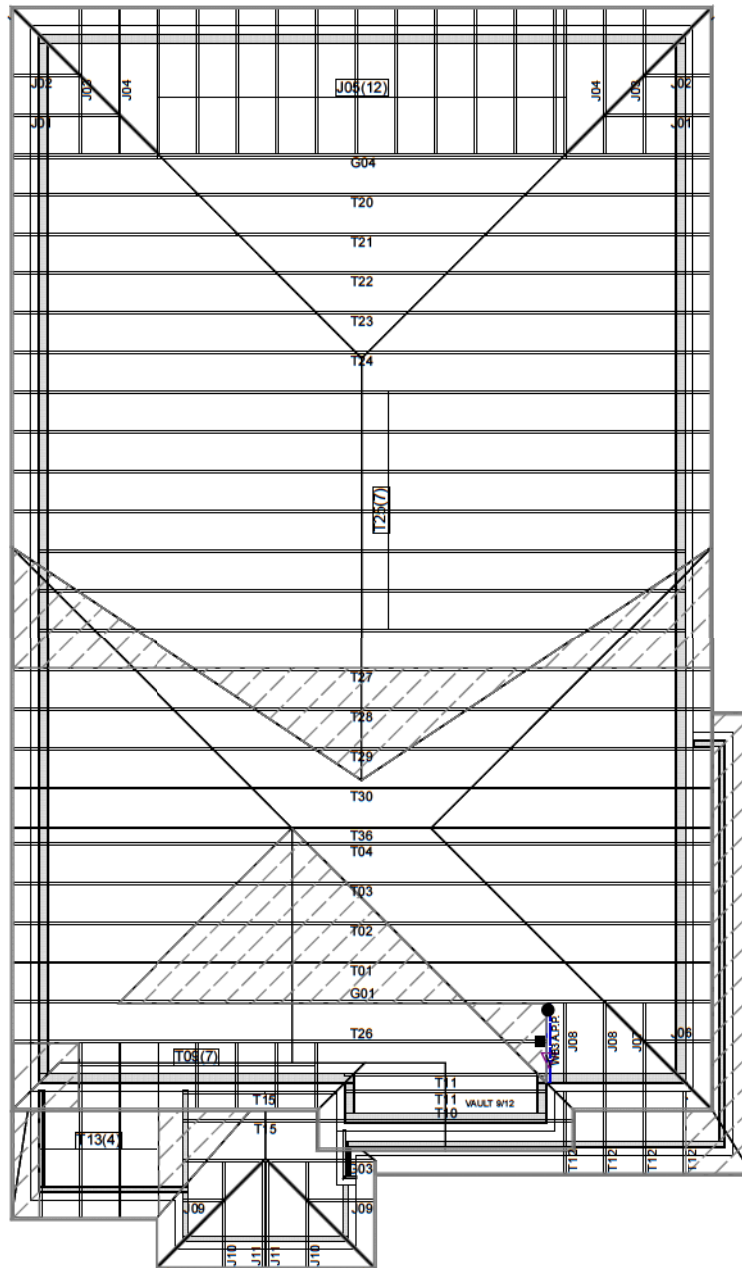




Hanger Name	Symbol	QTY
LUS24	▲	0
LJS26DS	■	1
HGUS26-2	●	1

PIGGYBACK TRUSSES TO BE SUPPORTED ON 2X4 SPF #1/2 MEMBERS @ 24" O/C PLACED PERPENDICULAR TO THE PIGGYBACK DIRECTION. PLACE 2X4 MEMBERS BETWEEN THE BOTTOM CHORD OF THE PIGGYBACK TRUSS AND THE TOP CHORD OF THE SUPPORTING TRUSS.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

CONVENTIONAL FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE MIN. 2x4 SPF @ 24" C/C WITH A 2x4 VERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE LATERALLY BRACED SO THAT UNBRACED LENGTH DOES NOT EXCEED 6'. DESIGN OF CONVENTIONAL FRAMING IS THE RESPONSIBILITY OF THE PROJECT ENGINEER.

JOB INFORMATION

Customer	GREENPARK HOMES
Job #	T20-00771
Address	LOT 30 TRINAR HALL EAST GWILLIMBURY, ON
Model	GLENWAY 7A ELEV 1
Sales Rep	RALPH MIRIGELLO
Designer	DM
Date	12/17/2020
Path	C:\DATA\JOBS\GREENPARK\TRINAR HALL\MODELS\LOT 30\T-4-0730A

DESIGN INFORMATION

Code	NBCC 2015
Bldg	Residential - HSB (NBCC Part 9)
TC LL	34.8 lb/ft ²
TC DL	8.0 lb/ft ²
BC LL	10.5 lb/ft ²
BC DL	7.3 lb/ft ²
Deflection	LL=L/360 TL=L/360
Spacing	24" O/C unless otherwise noted
Complies With	OBC 2012 (2019 Amendment) CSA O86-14 and TPIC 2014

IMPORTANT INFORMATION

Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes

For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @ 24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines

Read all notes on this page in addition to those shown on the KOTT Truss Engineering package

Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering

Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span > 40 ft. See hanger legend for type.

Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span < 40 ft use 3-1/4" nails @ each bearing; trusses with a clear span > 40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc.
14 Anderson Blvd.
Uxbridge, ON
905.642.4400



NE1220-131
GREENPARK - TRINAR
HALL - LOT 30

ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

IT IS THE RESPONSIBILITY OF KOTT TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

USE AND OCCUPANCY

- The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

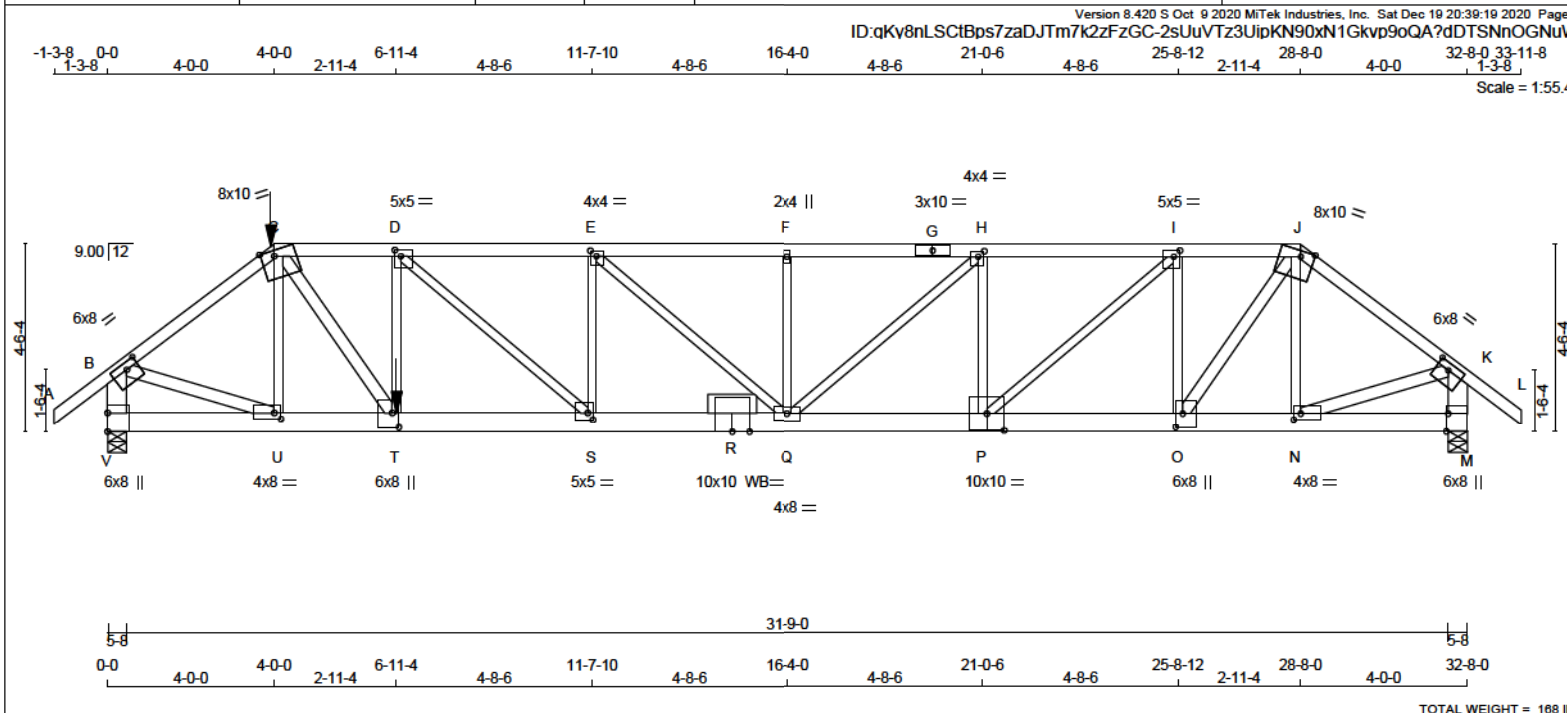
- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- **It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")**

SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

- Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.



LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - C	2x4	DRY	No.2
C - G	2x4	DRY	2100F 1.8E
G - J	2x4	DRY	2100F 1.8E
J - L	2x4	DRY	No.2
V - B	2x6	DRY	No.2
M - K	2x6	DRY	No.2
V - R	2x6	DRY	2100F 1.8E
R - P	2x6	DRY	2100F 1.8E
P - M	2x6	DRY	2100F 1.8E
ALL WEBS EXCEPT			
C - T	2x4	DRY	No.2
O - J	2x4	DRY	No.2
B - U	2x4	DRY	No.2
N - K	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	6.0	8.0	2.00 3.50
C	TTWW-m	MT20	8.0	10.0	Edge 4.00
D	TMVW-t	MT20	5.0	5.0	1.75 1.75
E	TMVW-t	MT20	4.0	4.0	1.50 1.75
F	TMVW-w	MT20	2.0	4.0	
G	TS-t	MT20	3.0	10.0	
H	TMVW-t	MT20	4.0	4.0	1.50 1.75
I	TMVW-m	MT20	5.0	5.0	1.75 1.75
J	TTWW-m	MT20	8.0	10.0	Edge 4.00
K	TMVW-t	MT20	6.0	8.0	2.00 3.50
M	BMV1-t	MT20	6.0	8.0	Edge 0.50
N	BMVW-t	MT20	4.0	8.0	1.75 2.00
O	BMVW-t	MT20	6.0	8.0	4.25 2.00
P	BSWW-t	MT20	10.0	10.0	5.25 5.00
Q	BMVW-t	MT20	4.0	8.0	
R	BS-t	MT20	10.0	10.0	
S	BMVW-t	MT20	5.0	5.0	2.00 1.50
T	BMVW-t	MT20	6.0	8.0	4.25 2.00
U	BMVW-t	MT20	4.0	8.0	1.75 2.00
V	BMV1-t	MT20	6.0	8.0	5.50

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
V	4893	0	4893	0	5-8
M	3351	0	3351	0	5-8

UNFACTORED REACTIONS					
1ST LCASE	MAX/MIN COMPONENT REACTIONS				
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
V	3615	2104 / 0	608 / 0	0 / 0	0 / 0
M	2472	1450 / 0	408 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.13 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED HORZ. LOAD (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORZ. LOAD (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 51	-124.4	-124.4 0.19 (1)	10.00	U-C	-884 / 0	0.26 (1)
B-C	-5351 / 0	-124.4	-124.4 0.97 (1)	2.13	C-T	0 / 4188	0.74 (1)
C-D	-8678 / 0	-172.4	-172.4 0.40 (1)	3.13	T-D	-1229 / 0	0.36 (1)
D-E	-7448 / 0	-124.4	-124.4 0.60 (1)	2.84	D-S	0 / 1030	0.25 (1)
E-F	-7282 / 0	-124.4	-124.4 0.59 (1)	2.89	S-E	-456 / 0	0.13 (1)
F-G	-7282 / 0	-124.4	-124.4 0.59 (1)	2.89	E-Q	-221 / 0	0.15 (1)
G-H	-7282 / 0	-124.4	-124.4 0.59 (1)	2.89	Q-F	-572 / 0	0.17 (1)
H-I	-8303 / 0	-124.4	-124.4 0.50 (1)	3.17	Q-H	0 / 1306	0.32 (1)
I-J	-4422 / 0	-124.4	-124.4 0.28 (1)	3.90	P-H	-1463 / 0	0.43 (1)
J-K	-3493 / 0	-124.4	-124.4 0.85 (1)	3.11	P-I	0 / 2508	0.62 (1)
K-L	0 / 51	-124.4	-124.4 0.19 (1)	10.00	O-I	-2158 / 0	0.64 (1)
V-B	-4798 / 0	0.0	0.0 0.35 (1)	4.87	O-J	0 / 2845	0.50 (1)
M-K	-3278 / 0	0.0	0.0 0.24 (1)	5.81	N-J	-613 / 0	0.18 (1)
V-U	0 / 0	-54.4	-54.4 0.05 (3)	10.00	B-U	0 / 4424	0.78 (1)
U-T	0 / 4249	-54.4	-54.4 0.27 (1)	10.00	N-K	0 / 2889	0.51 (1)
T-S	0 / 6076	-39.2	-39.2 0.42 (1)	10.00			
S-R	0 / 7448	-39.2	-39.2 0.46 (1)	10.00			
R-Q	0 / 7448	-39.2	-39.2 0.46 (1)	10.00			
Q-P	0 / 6303	-39.2	-39.2 0.40 (1)	10.00			
P-O	0 / 4423	-39.2	-39.2 0.27 (1)	10.00			
O-N	0 / 2773	-39.2	-39.2 0.16 (1)	10.00			
N-M	0 / 0	-39.2	-39.2 0.04 (3)	10.00			

FACTORED CONCENTRATED LOADS (LBS)					
JT	LOC.	LC1	MAX-	MAX+	FACE
C	4-0-0	-207	-207	---	BACK
T	6-11-4	-2101	-2101	---	BACK

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 = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 4-0-0
END SETBACK = 4-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO BACK SIDE

ADDTL LOADS BASED ON 55 % OF GSL
LOADS APPLIED TO FIRST 6-10-8 OF SPAN MEASURED FROM THE LEFT.

*** NON STANDARD GIRDER ***
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBC0 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/998 (0.31")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/799 (0.52")

CSI: TC=0.97/1.00 (B-C-1), BC=0.48/1.00 (Q-S-1), WB=0.78/1.00 (B-U-1), SSI=0.26/1.00 (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)	SHEAR (PSI)	SECTION (PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	650	371	1747

CONTINUED ON PAGE 2



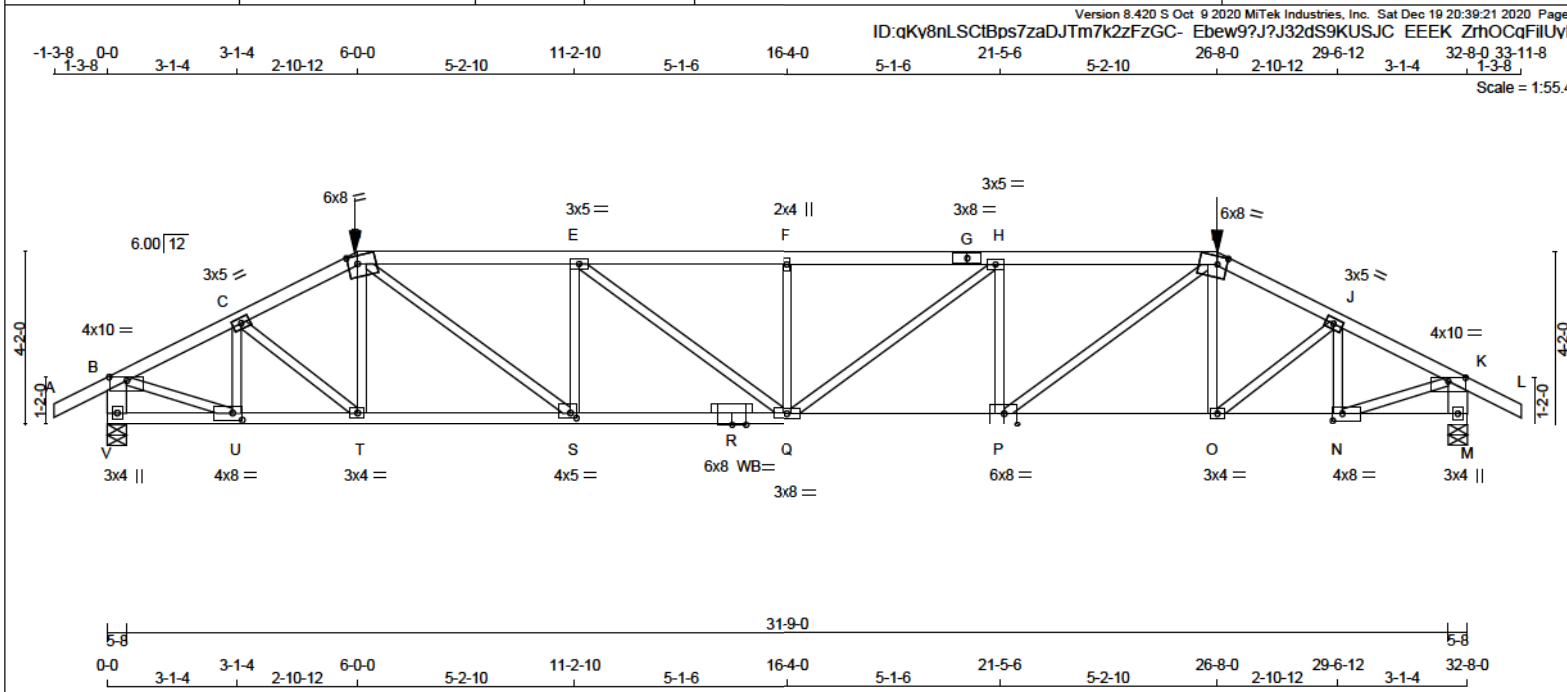
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - L	2x4	DRY	No.2
L - N	2x4	DRY	No.2
N - P	2x4	DRY	No.2
P - R	2x4	DRY	No.2
R - T	2x4	DRY	No.2
T - V	2x4	DRY	No.2
V - X	2x4	DRY	No.2
X - Z	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			

DRY: SEASONED LUMBER.

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

CHORDS#ROWS	SURFACE	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A - D	12	SIDE(0.0)
D - G	12	SIDE(55.1)
G - I	12	SIDE(55.1)
I - L	12	SIDE(0.0)
L - N	12	TOP
N - P	12	TOP
P - R	12	SIDE(22.0)
R - T	12	SIDE(22.0)
T - V	12	SIDE(22.0)
V - X	12	SIDE(22.0)
X - Z	12	SIDE(22.0)
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
A - D	12	SIDE(22.0)
D - G	12	SIDE(22.0)
G - I	12	SIDE(22.0)
I - L	12	SIDE(22.0)
L - N	12	SIDE(22.0)
N - P	12	SIDE(22.0)
P - R	12	SIDE(22.0)
R - T	12	SIDE(22.0)
T - V	12	SIDE(22.0)
V - X	12	SIDE(22.0)
X - Z	12	SIDE(22.0)

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.

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	5108	0	5108	0	5-8
V	5108	0	5108	0	5-8
M	5108	0	5108	0	5-8

UNFACTORED REACTIONS							
1ST LCASE MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
V	3780	2182 / 0	647 / 0	0 / 0	0 / 0	951 / 0	0 / 0
M	3780	2182 / 0	647 / 0	0 / 0	0 / 0	951 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.28 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.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 38	-124.4	-124.4 0.09 (1)	10.00	U-C	-1494 / 0	0.13 (1)
B-C	-8671 / 0	-124.4	-124.4 0.25 (1)	3.61	C-T	0 / 1047	0.13 (1)
C-D	-7606 / 0	-124.4	-124.4 0.28 (1)	3.38	T-D	-294 / 181	0.04 (1)
D-E	-10121 / 0	-234.6	-234.6 0.52 (1)	3.47	D-S	0 / 4156	0.51 (1)
E-F	-11106 / 0	-234.6	-234.6 0.55 (1)	3.29	S-E	-2104 / 0	0.28 (1)
F-G	-11106 / 0	-234.6	-234.6 0.56 (1)	3.28	E-Q	0 / 1240	0.15 (1)
G-H	-11106 / 0	-234.6	-234.6 0.56 (1)	3.28	Q-F	-1110 / 0	0.15 (1)
H-I	-10094 / 0	-234.6	-234.6 0.52 (1)	3.47	Q-H	0 / 1274	0.18 (1)
I-J	-7619 / 0	-124.4	-124.4 0.28 (1)	3.37	P-H	-2127 / 0	0.29 (1)
J-K	-8666 / 0	-124.4	-124.4 0.25 (1)	3.62	P-I	0 / 4109	0.51 (1)
K-L	0 / 38	-124.4	-124.4 0.09 (1)	10.00	O-I	-260 / 236	0.04 (1)
V-B	-4982 / 0	0.0	0.0 0.18 (1)	6.52	O-J	0 / 1064	0.13 (1)
M-K	-4979 / 0	0.0	0.0 0.18 (1)	6.52	N-J	-1510 / 0	0.14 (1)
					B-U	0 / 6197	0.77 (1)
					N-K	0 / 6193	0.77 (1)
V-U	0 / 0	-74.0	-74.0 0.09 (2)	10.00			
U-T	0 / 5973	-74.0	-74.0 0.63 (1)	10.00			
T-S	0 / 6782	-74.0	-74.0 0.70 (1)	10.00			
S-R	0 / 10121	-74.0	-74.0 0.98 (1)	10.00			
R-Q	0 / 10121	-74.0	-74.0 0.98 (1)	10.00			
Q-P	0 / 10094	-74.0	-74.0 0.51 (1)	10.00			
P-O	0 / 6792	-74.0	-74.0 0.73 (1)	10.00			
O-N	0 / 5970	-74.0	-74.0 0.66 (1)	10.00			
N-M	0 / 0	-74.0	-74.0 0.09 (2)	10.00			

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
D	6-0-0	-560	-560	---	FRONT	VERT	TOTAL
I	26-8-0	-560	-560	---	FRONT	VERT	TOTAL

CONNECTION REQUIREMENTS

- C1: A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED.



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

DESIGN CRITERIA	
SPECIFIED LOADS:	
TOP CH. LL	= 34.8 PSF
DL	= 8.0 PSF
BOT CH. LL	= 10.5 PSF
DL	= 7.3 PSF
TOTAL LOAD	= 60.6 PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip
SIDE SETBACK = 6-0-0
END SETBACK = 6-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- 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 DEF. (LL) = L/360 (1.09")
CALCULATED VERT. DEF. (LL) = L/969 (0.29")
ALLOWABLE DEF. (TL) = L/360 (1.09")
CALCULATED VERT. DEF. (TL) = L/798 (0.49")

CSI: TC=0.56/1.00 (F-H:1), BC=0.08/1.00 (Q-S:1), WB=0.77/1.00 (B-U:1), SS=0.31/1.00 (H-I: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)	SHEAR	SECTION	
(PSI)	(PLI)	(PLI)	
MAX MIN	MAX MIN	MAX MIN	
MT20	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (P) (INPUT = 0.90)
JSI METAL = 0.97 (P) (INPUT = 1.00)

CONTINUED ON PAGE 2



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMVW-p	MT20	4.0	10.0	1.00 5.00
C, E, H, J					
C	TMWW-t	MT20	3.0	5.0	
D	TTWW-m	MT20	6.0	8.0	2.25 2.75
F	TMW+w	MT20	2.0	4.0	
G	TS-t	MT20	3.0	8.0	
I	TTWW-m	MT20	6.0	8.0	2.25 2.75
K	TMVW-p	MT20	4.0	10.0	1.00 5.00
M	BMV1+p	MT20	3.0	4.0	
N	BMWW-t	MT20	4.0	8.0	2.00 2.75
O	BMWW-t	MT20	3.0	4.0	
P	BSWW-t	MT20	6.0	8.0	3.25 3.75
Q	BMWW-t	MT20	3.0	8.0	
R	BS-t	MT20	6.0	8.0	
S	BMWW-t	MT20	4.0	5.0	1.50 1.75
T	BMWW-t	MT20	3.0	4.0	
U	BMWW-t	MT20	4.0	8.0	2.00 2.75
V	BMV1+p	MT20	3.0	4.0	

WB - INDICATES BLOCKING REQUIRED



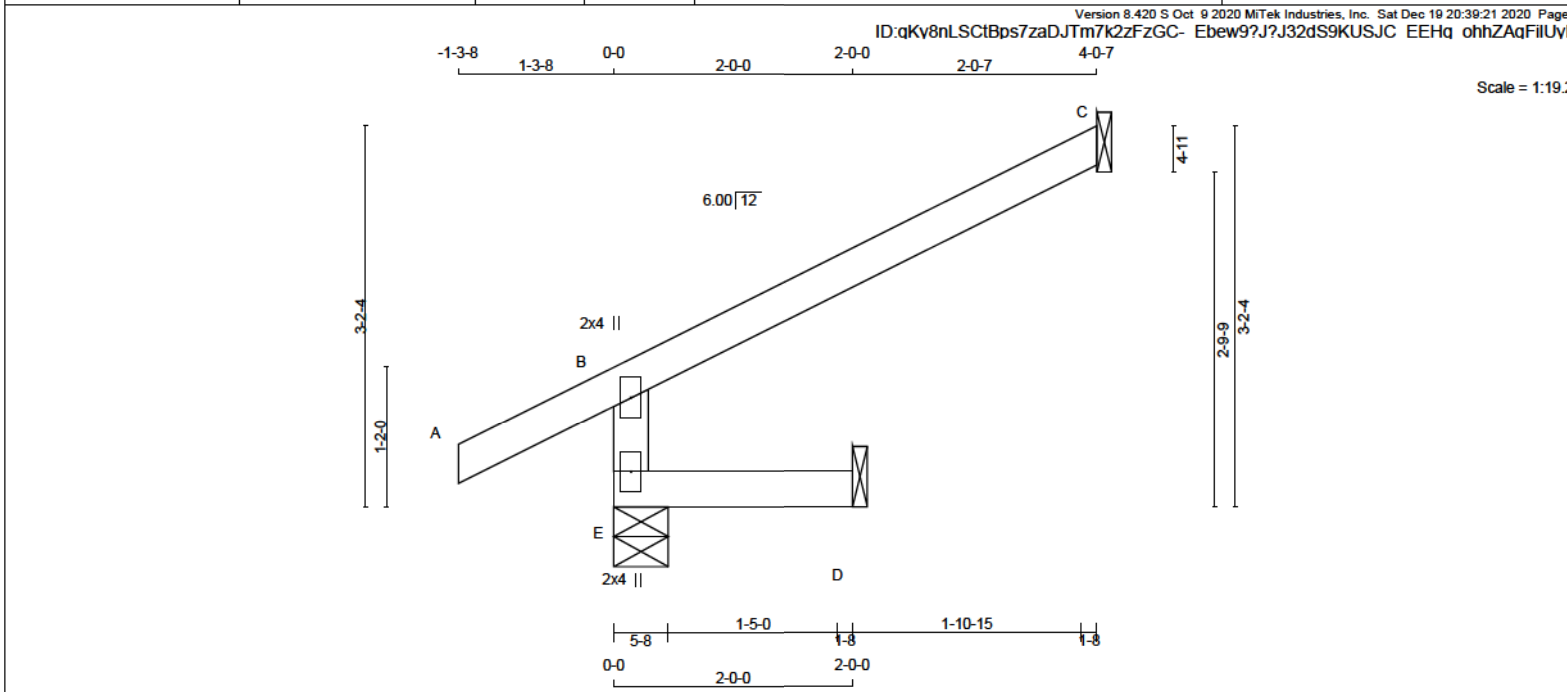
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



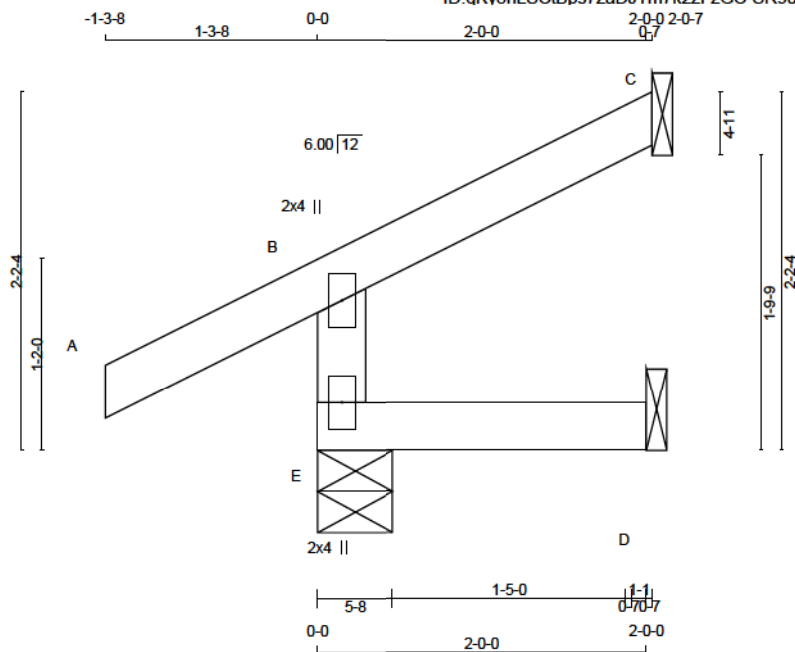


LUMBER N. L. G. A. RULES <table><tr><td>CHORDS</td><td>SIZE</td><td>LUMBER</td><td>DESCR.</td></tr><tr><td>E - B</td><td>2x4 DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>A - C</td><td>2x4 DRY</td><td>No.2</td><td>SPF</td></tr><tr><td>E - D</td><td>2x4 DRY</td><td>No.2</td><td>SPF</td></tr></table> DRY: SEASONED LUMBER.	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	DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER BEARINGS <table><tr><td></td><td>FACTORED GROSS REACTION</td><td>MAXIMUM FACTORED GROSS REACTION</td><td>INPUT BRG</td><td>REQRD BRG</td></tr><tr><td>JT</td><td>VERT</td><td>HORZ</td><td>DOWN</td><td>HORZ</td></tr><tr><td>E</td><td>528</td><td>0</td><td>528</td><td>0</td></tr><tr><td>C</td><td>188</td><td>0</td><td>188</td><td>0</td></tr><tr><td>D</td><td>35</td><td>0</td><td>44</td><td>0</td></tr></table> SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D UNFACTORED REACTIONS <table><tr><td></td><td>1ST LCASE</td><td>MAX</td><td>MIN</td><td>COMPONENT REACTIONS</td></tr><tr><td>JT</td><td>COMBINED</td><td>SNOW</td><td>LIVE</td><td>PERM. LIVE</td></tr><tr><td>E</td><td>372</td><td>270 / 0</td><td>23 / 0</td><td>0 / 0</td></tr><tr><td>C</td><td>130</td><td>105 / 0</td><td>0 / 0</td><td>0 / 0</td></tr><tr><td>D</td><td>32</td><td>0 / 0</td><td>19 / 0</td><td>0 / 0</td></tr></table> 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) <table><tr><td colspan="4">C H O R D S</td><td colspan="4">W E B S</td></tr><tr><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>FACTORED VERT. LOAD (PLF)</td><td>FACTORED LC1 MAX. (LC)</td><td>MEMB.</td><td>MAX. FACTORED FORCE (LBS)</td><td>MAX. (LC)</td><td>UNBRACED LENGTH</td></tr><tr><td>FR-TO</td><td></td><td>FROM TO</td><td></td><td>FR-TO</td><td></td><td></td><td></td></tr><tr><td>E-B</td><td>-483 / 0</td><td>0.0</td><td>0.0 0.02 (3)</td><td>7.81</td><td></td><td></td><td></td></tr><tr><td>A-B</td><td>0 / 38</td><td>-124.4</td><td>-124.4 0.16 (1)</td><td>10.00</td><td></td><td></td><td></td></tr><tr><td>B-C</td><td>-28 / 0</td><td>-124.4</td><td>-124.4 0.34 (1)</td><td>6.25</td><td></td><td></td><td></td></tr><tr><td>E-D</td><td>0 / 0</td><td>-39.2</td><td>-39.2 0.03 (3)</td><td>10.00</td><td></td><td></td><td></td></tr></table>		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	JT	VERT	HORZ	DOWN	HORZ	E	528	0	528	0	C	188	0	188	0	D	35	0	44	0		1ST LCASE	MAX	MIN	COMPONENT REACTIONS	JT	COMBINED	SNOW	LIVE	PERM. LIVE	E	372	270 / 0	23 / 0	0 / 0	C	130	105 / 0	0 / 0	0 / 0	D	32	0 / 0	19 / 0	0 / 0	C H O R D S				W E B S				MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. (LC)	UNBRACED LENGTH	FR-TO		FROM TO		FR-TO				E-B	-483 / 0	0.0	0.0 0.02 (3)	7.81				A-B	0 / 38	-124.4	-124.4 0.16 (1)	10.00				B-C	-28 / 0	-124.4	-124.4 0.34 (1)	6.25				E-D	0 / 0	-39.2	-39.2 0.03 (3)	10.00				DESIGN CRITERIA SPECIFIED LOADS: <table><tr><td>TOP CH.</td><td>LL</td><td>=</td><td>34.8</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>8.0</td><td>PSF</td></tr><tr><td>BOT CH.</td><td>LL</td><td>=</td><td>10.5</td><td>PSF</td></tr><tr><td></td><td>DL</td><td>=</td><td>7.3</td><td>PSF</td></tr><tr><td>TOTAL LOAD</td><td>=</td><td>60.6</td><td>PSF</td><td></td></tr></table> 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, ABC 2019 - 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=0.34/1.00 (B-C:1) , BC=0.03/1.00 (D-E:3) , WB=0.00/1.00 (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 <table><tr><td>PLATE</td><td>GRIP(DRY)</td><td>SHEAR</td><td>SECTION</td></tr><tr><td>(PSI)</td><td>(PLI)</td><td>(PLI)</td><td>(PLI)</td></tr><tr><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</td><td>MAX MIN</td></tr><tr><td>MT20</td><td>650</td><td>371</td><td>1747 788 1987 1873</td></tr></table> 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)	TOP CH.	LL	=	34.8	PSF		DL	=	8.0	PSF	BOT CH.	LL	=	10.5	PSF		DL	=	7.3	PSF	TOTAL LOAD	=	60.6	PSF		PLATE	GRIP(DRY)	SHEAR	SECTION	(PSI)	(PLI)	(PLI)	(PLI)	MAX MIN	MAX MIN	MAX MIN	MAX MIN	MT20	650	371	1747 788 1987 1873
CHORDS	SIZE	LUMBER	DESCR.																																																																																																																																																																		
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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TOTAL WEIGHT = 2 X 7 = 15 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	2.0	4.0
E	BMV1+p	MT20	2.0	4.0

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

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
E	370	0	370	0	0	5-8	1-8	1-8	1-8
C	96	0	96	0	0	1-8	1-8	1-8	1-8
D	35	0	44	0	0	1-8	1-8	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS		1ST LCASE		MAX / MIN		COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	264	183 / 0	23 / 0	0 / 0	0 / 0	58 / 0	0 / 0
C	86	54 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	32	0 / 0	19 / 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 = 8.25 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		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH
E-B	-327 / 0	0.0 0.0 0.02 (3)	7.81
A-B	0 / 38	-124.4 -124.4 0.16 (1)	10.00
B-C	-14 / 0	-124.4 -124.4 0.09 (1)	6.25
E-D	0 / 0	-39.2 -39.2 0.03 (3)	10.00

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- 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=0.16/1.00 (A-B:1) , BC=0.03/1.00 (D-E:3) ,
WB=0.00/1.00 (n/a:0) , SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)



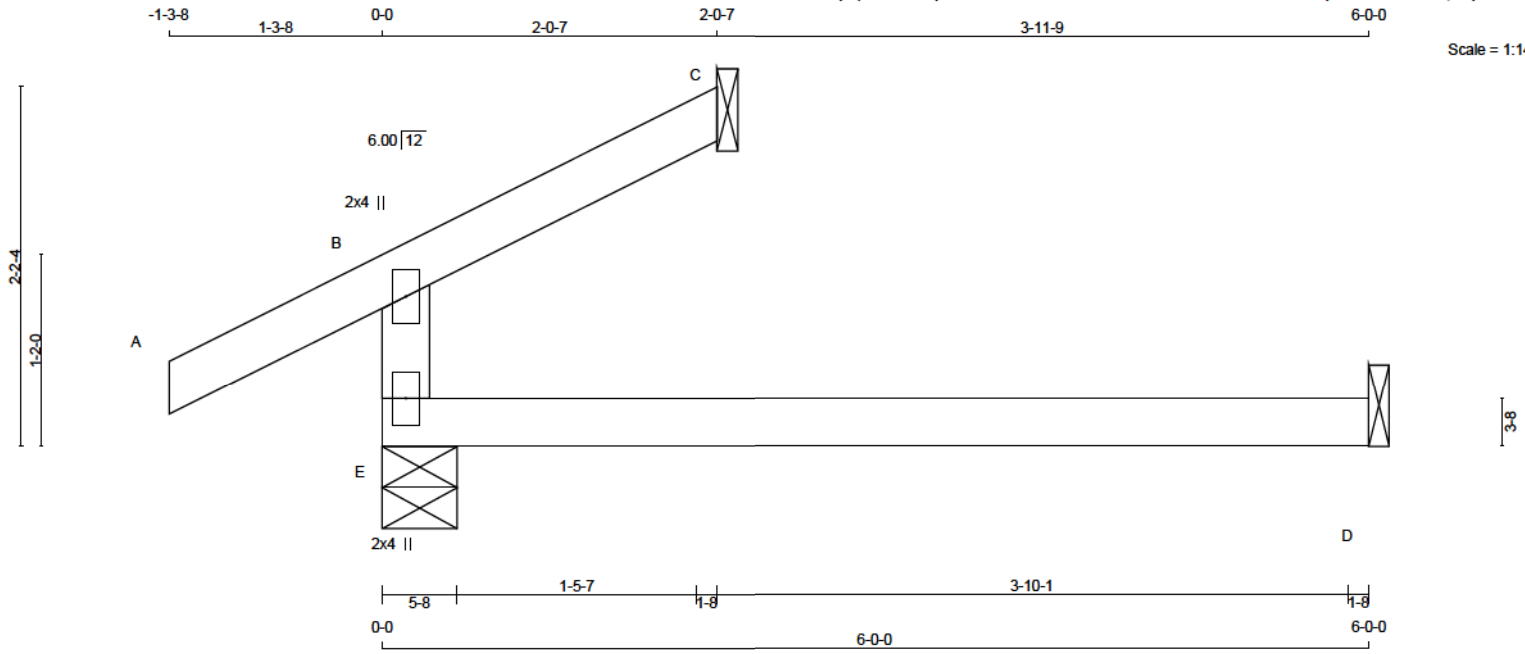
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Building Code	H. Authier	43236	2021-02-03
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Scale = 1:14.0



TOTAL WEIGHT = 2 X 12 = 24 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	2.0	4.0
E	BMV1+p	MT20	2.0	4.0

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
E	485	0	485	0
C	96	0	96	0
D	97	0	123	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX MIN	COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	350	183 / 0	74 / 0	0 / 0	0 / 0	93 / 0	0 / 0
C	86	54 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	88	0 / 0	52 / 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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LC1) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1) (LC)	UNBRACED LENGTH (FR-TO)
FR-TO							
E-B	-327 / 0	0.0	0.0 0.22 (3)				7.81
A-B	0 / 38	-124.4	-124.4 0.16 (1)				10.00
B-C	-14 / 0	-124.4	-124.4 0.09 (1)				6.25
E-D	0 / 0	-39.2	-39.2 0.22 (3)				10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	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, ABC 2019
- 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 874 (0.08")

CSI: TC=0.22/1.00 (B-E:3) , BC=0.22/1.00 (D-E:3) ,
WB=0.00/1.00 (n/a:0) , SSI=0.14/1.00 (D-E:3)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90)
JSI METAL= 0.14 (B) (INPUT = 1.00)



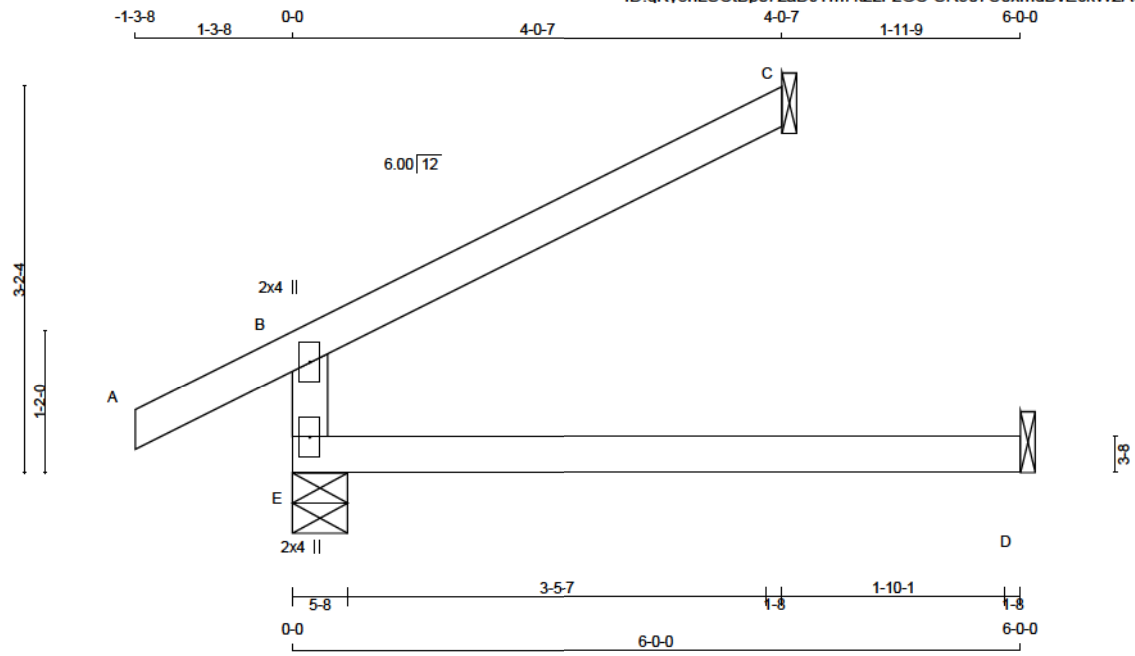
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



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Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sat Dec 19 20:39:22 2020 Page 1
ID:qKv8nLScTbPs7zaDJTm7k2zFzGC-SR907U0xmdBvEckW2AqRXRnSQO5tQ0PpTMU1Ury77



TOTAL WEIGHT = 2 X 15 = 29 lb

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

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

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

BEARINGS

FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	DOWN	UPLIFT	IN-SX
E 621	0	0	5-8
C 188	0	0	1-8
D 97	0	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE	PERM. LIVE WIND DEAD SOIL
E 458	270 / 0	74 / 0	0 / 0 0 / 0 114 / 0 0 / 0
C 130	105 / 0	0 / 0	0 / 0 0 / 0 24 / 0 0 / 0
D 88	0 / 0	52 / 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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
E-B	-483 / 0	0.0	0.0 0.23 (3)	7.81			
A-B	0 / 38	-124.4	-124.4 0.16 (1)	10.00			
B-C	-28 / 0	-124.4	-124.4 0.34 (1)	6.25			
E-D	0 / 0	-39.2	-39.2 0.23 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 874 (0.08")

CSI: TC=0.34/1.00 (B-C:1) , BC=0.23/1.00 (D-E:3) ,
WB=0.00/1.00 (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) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.27 (B) (INPUT = 0.90)
JSI METAL= 0.20 (B) (INPUT = 1.00)

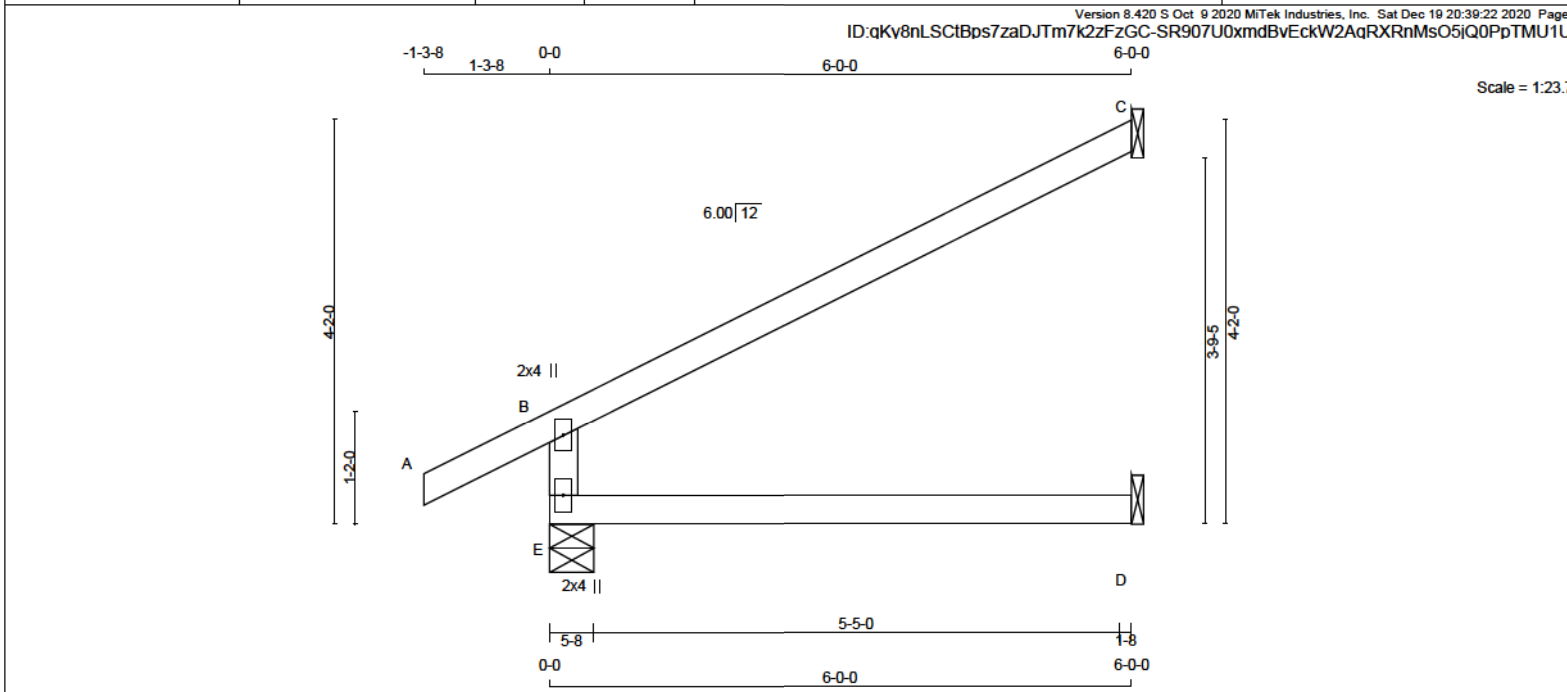


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



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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	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	774	774	5-8	1-8
C	280	280	1-8	1-8
D	97	123	1-8	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX MIN	COMPONENT REACTIONS
E	COMBINED	355 / 0	74 / 0
C	COMBINED	157 / 0	0 / 0
D	COMBINED	0 / 0	52 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED L1 MAX. (LC)	MEMB. MAX. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)
FR-TO		FROM TO	LENGTH	FR-TO		
E-B	-835 / 0	0.0	0.0 0.24 (3)	7.81		
A-B	0 / 38	-124.4	-124.4 0.18 (1)	10.00		
B-C	-42 / 0	-124.4	-124.4 0.78 (1)	6.25		
E-D	0 / 0	-39.2	-39.2 0.24 (3)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- 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 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/ 874 (0.08")

CSI: TC=0.78/1.00 (B-C:1) , BC=0.24/1.00 (D-E:3) , WB=0.00/1.00 (n/a:0) , SSI=0.33/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.36 (B) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)



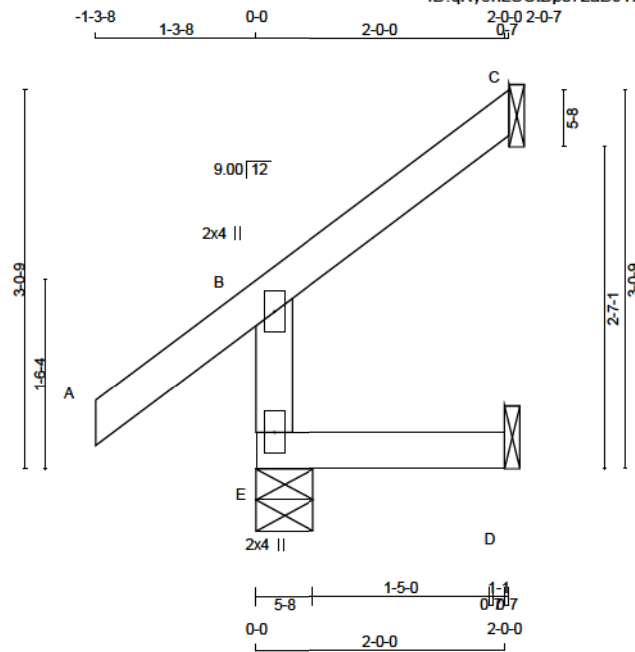
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Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





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

DRY: SEASONED LUMBER.

PLATES (table is in inches)				
JT	TYPE	PLATES	W	LEN Y X
B	TMV+p	MT20	2.0	4.0
E	BMV1+p	MT20	2.0	4.0

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

BEARINGS					
	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
E	372	0	372	0	0
C	96	0	96	0	0
D	36	0	45	0	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS							
JT	1ST CASE	MAX	MIN	COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	265	184 / 0	23 / 0	0 / 0	0 / 0	58 / 0	0 / 0
C	66	54 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
D	32	0 / 0	19 / 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 = 8.25 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				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (PL)	MAX. FACTORED (LC)
FR-TO		FROM TO	LENGTH	FR-TO			
E-B	-329 / 0	0.0	0.0 (1) (3)	7.81			
A-B	0 / 51	-124.4	-124.4 (1) (1)	10.00			
B-C	-18 / 0	-124.4	-124.4 (1) (1)	6.25			
E-D	0 / 0	-39.2	-39.2 (1) (3)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

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

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

CSI: TC=0.17/1.00 (A-B:1) , BC=0.03/1.00 (D-E:3) ,
WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)



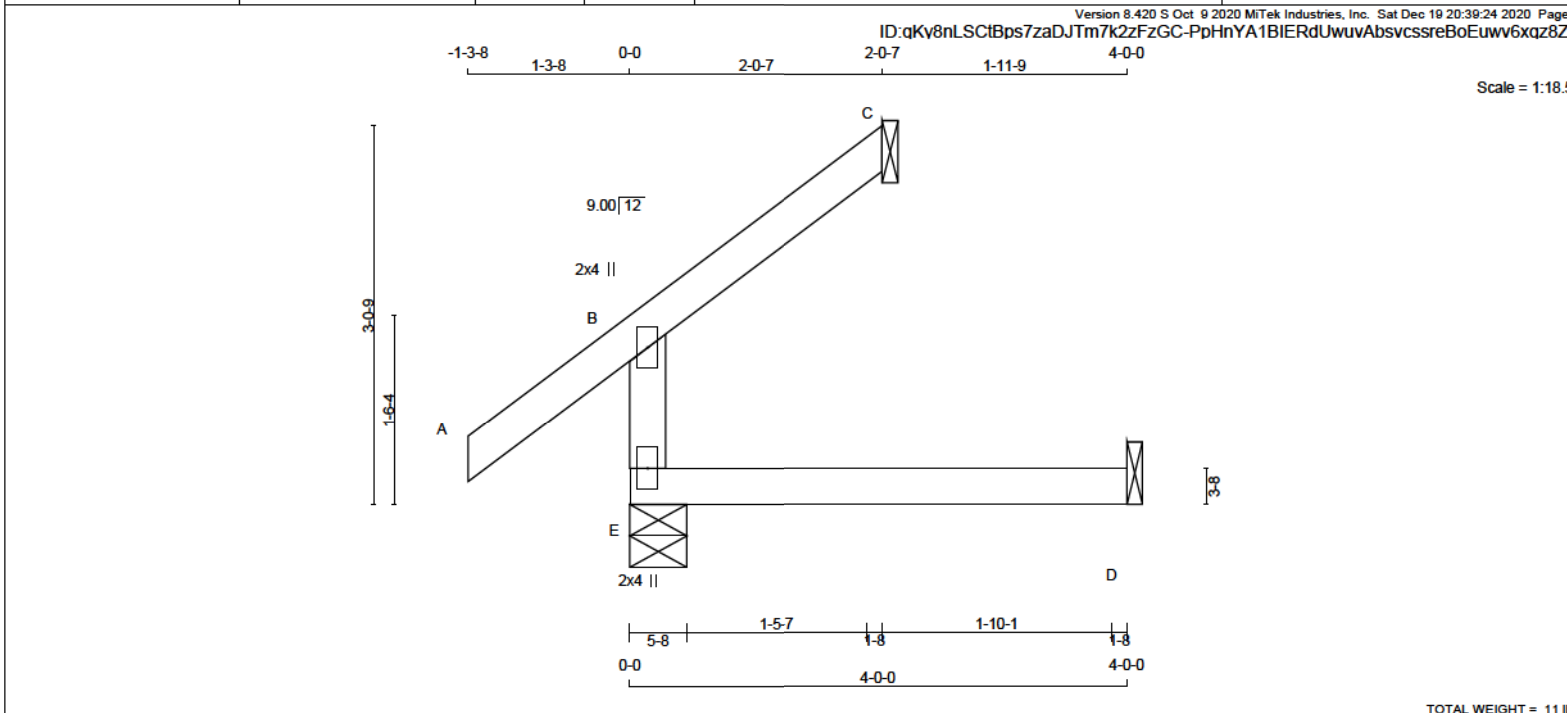
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Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

E - B 2x4 DRY No.2

A - C 2x4 DRY No.2

E - D 2x4 DRY No.2

DESCR.

SPF

SPF

SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMV+p MT20 2.0 4.0

E BMV1+p MT20 2.0 4.0

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

BEARINGS

FACTORED GROSS REACTION

MAXIMUM FACTORED GROSS REACTION

INPUT BRG

REQRD BRG

JT VERT

E 418 0

C 96 0

D 68 0

HORZ

HORZ

0 0

0 0

UPLIFT IN-SX

0 0

1-8 1-8

1-8 1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

1ST LCASE

MAX MIN COMPONENT REACTIONS

JT COMBINED

SNOW LIVE PERM.LIVE WIND DEAD SOIL

E 307

184 / 0 48 / 0 0 / 0 0 / 0 75 / 0 0 / 0

C 66

54 / 0 0 / 0 0 / 0 0 / 0 12 / 0 0 / 0

D 62

0 / 0 36 / 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)

C H O R D S

W E B S

MEMB.

MAX. FACTORED FORCE (LBS)

FACTORED VERT. LOAD (PLF)

FACTORED LC1 MAX. CSI (LC)

MEMB.

MAX. FACTORED FORCE (LBS)

MAX. CSI (LC)

UNBRACED LENGTH

FR-TO

FROM TO

FR-TO

E-B

-329 / 0

0.0 0.0 0.08 (3)

7.81

E-B

-329 / 0

A-B

0 / 51

-124.4 -124.4 0.17 (1)

10.00

A-B

0 / 51

B-C

-18 / 0

-124.4 -124.4 0.09 (1)

6.25

B-C

-18 / 0

E-D

0 / 0

-39.2 -39.2 0.11 (3)

10.00

E-D

0 / 0

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.3 PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019

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- 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 (0.01")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.17/1.00 (A-B:1) , BC=0.11/1.00 (D-E:3) ,

WB=0.00/1.00 (n/a:0) , SSI=0.11/1.00 (A-B:1)

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

SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (B) (INPUT = 0.90)

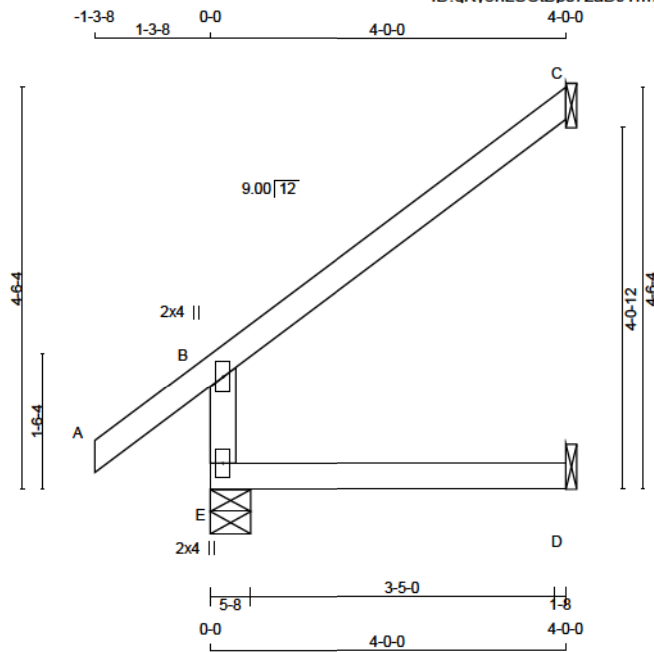
JSI METAL= 0.17 (B) (INPUT = 1.00)

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Zoning			

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Scale = 1:25.9



TOTAL WEIGHT = 2 X 14 = 27 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)					
JT	TYPE	PLATES	W	LEN	Y X
B	TMV+p	MT20	2.0	4.0	
E	BMV1+p	MT20	2.0	4.0	

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
E	571	0	571	0	5-8
C	187	0	187	0	1-8
D	68	0	86	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS							
JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS			
E	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	413	270 / 0	48 / 0	0 / 0	0 / 0	95 / 0	0 / 0
C	129	105 / 0	0 / 0	0 / 0	0 / 0	24 / 0	0 / 0
D	62	0 / 0	36 / 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 = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)
FR-TO			
E-B	-482 / 0	0.0 0.0 0.08 (3)	7.81
A-B	0 / 51	-124.4 -124.4 0.17 (1)	10.00
B-C	-37 / 0	-124.4 -124.4 0.34 (1)	6.25
E-D	0 / 0	-39.2 -39.2 0.12 (3)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF BCBC 2018, ABC 2019
- 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 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.02")

CSI: TC=0.34/1.00 (B-C:1) , BC=0.12/1.00 (D-E:3) ,
WB=0.00/1.00 (n/a:0) , SSI=0.19/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.31 (B) (INPUT = 0.90)
JSI METAL= 0.26 (B) (INPUT = 1.00)

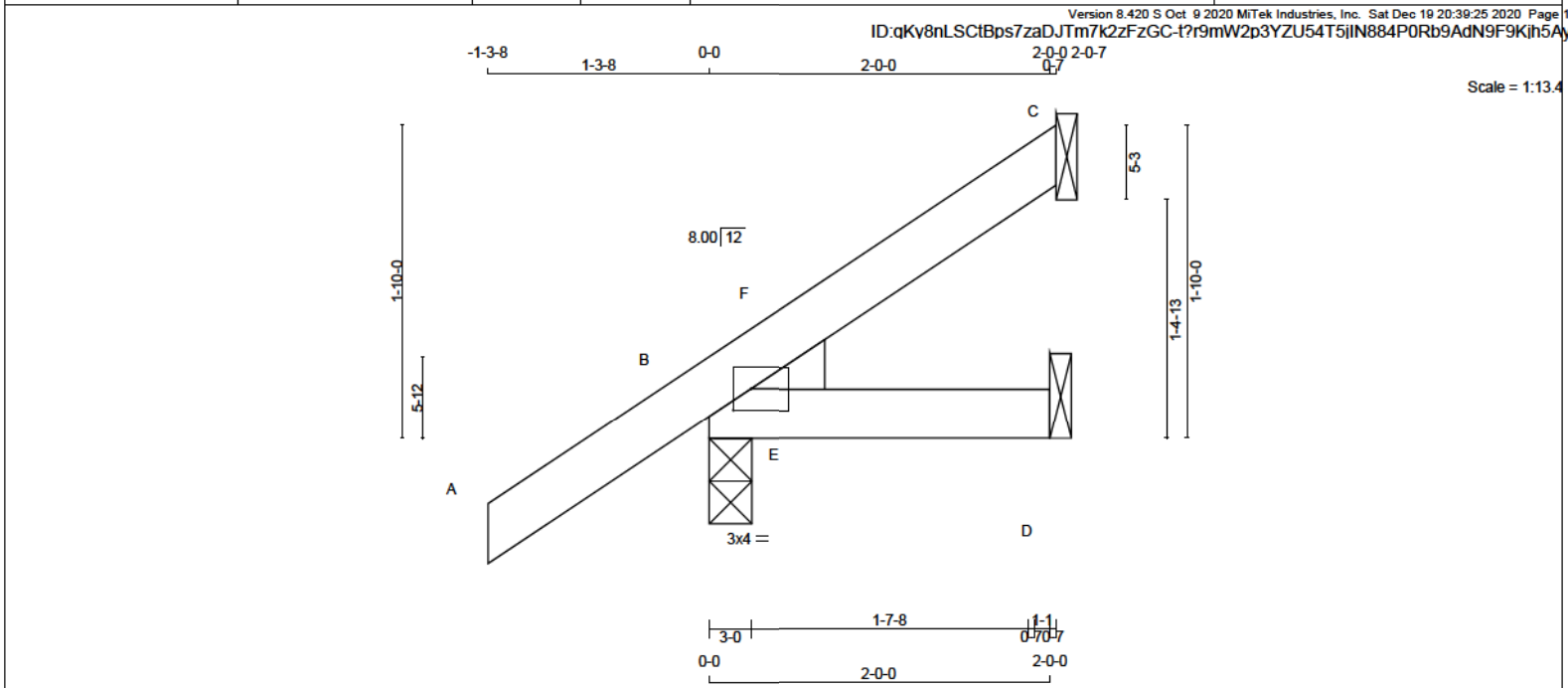


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

A - C 2x4 DRY No.2

B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

DESCR.

SPF

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-I	MT20	3.0	4.0	1.25

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	HEEL
C	106	106	0	1-8	
B	336	336	0	3-0	2x4 L
D	61	61	0	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C , D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE PERM.LIVE WIND DEAD SOIL
C	74	55 / 0	4 / 0 0 / 0 0 / 0 15 / 0 0 / 0
B	240	166 / 0	21 / 0 0 / 0 0 / 0 53 / 0 0 / 0
D	49	16 / 0	17 / 0 0 / 0 0 / 0 16 / 0 0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (5)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED L1 MAX. (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED L1 MAX. (LC)
FR-TO		FROM TO		FR-TO		FROM TO	
A-B	0 / 41	-124.4 -124.4	0.17 (1)	10.00	E-F	-83 / 16	0.00 (1)
B-F	-24 / 0	-124.4 -124.4	0.02 (2)	6.25			
F-C	0 / 6	-124.4 -124.4	0.06 (1)	10.00			
B-E	0 / 0	-39.2 -39.2	0.06 (1)	10.00			
E-D	0 / 0	-39.2 -39.2	0.06 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	34.8	PSF
	DL	=	8.0	PSF
BOT CH.	LL	=	10.5	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	60.6	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, ABC 2019

- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)

EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/999 (0.00")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.17/1.00 (A-B:1) , BC=0.06/1.00 (B-E:1) ,

WB=0.00/1.00 (E-F:1) , SSI=0.12/1.00 (A-B:1)

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

SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

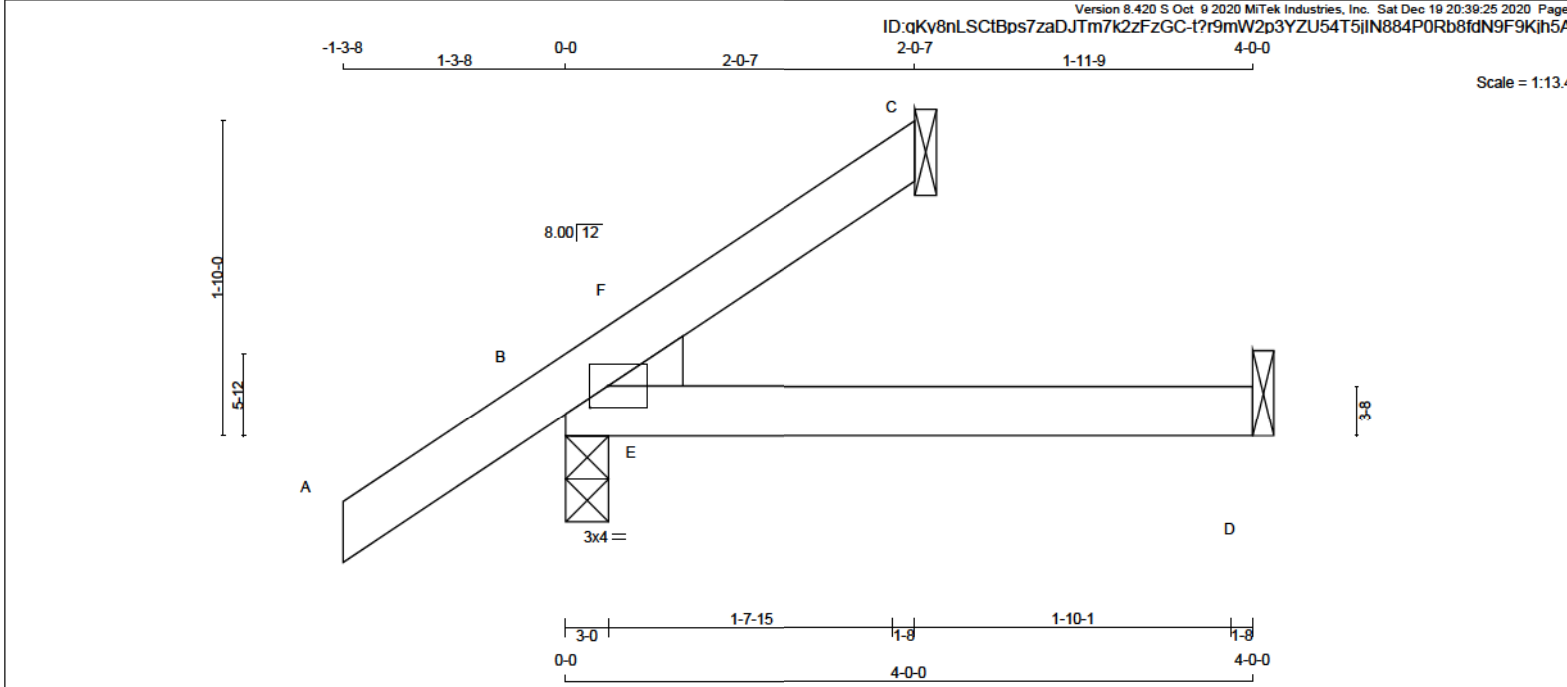
PLATE GRIP(DRY)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN
MT20	650	371
	1747	788
	1987	1873

PLATE PLACEMENT TOL. = 0.250 inches

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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

DRY: SEASONED LUMBER.

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
B TMBH1-I MT20 3.0 4.0 1.50 1.25

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	HEEL WEDGE
C	144	144	1-8	1-8	2x4 L
B	368	368	3-0	1-8	
D	70	84	1-8	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	106	62 / 0	18 / 0	0 / 0	0 / 0	27 / 0	0 / 0
B	267	171 / 0	33 / 0	0 / 0	0 / 0	62 / 0	0 / 0
D	61	4 / 0	33 / 0	0 / 0	0 / 0	24 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED L1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-124.4 -124.4	0.17 (1)	A-B	0 / 156	0.00 (1)	10.00
B-F	-111 / 0	-124.4 -124.4	0.11 (2)	B-F			6.25
F-C	0 / 30	-124.4 -124.4	0.12 (1)	F-C			10.00
B-E	0 / 0	-39.2 -39.2	0.04 (3)	B-E			10.00
E-D	0 / 0	-39.2 -39.2	0.10 (2)	E-D			10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.17/1.00 (A-B:1), BC=0.10/1.00 (D-E:2), WB=0.00/1.00 (E-F:1), SSI=0.12/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.32 (B) (INPUT = 0.90)
JSI METAL = 0.04 (B) (INPUT = 1.00)

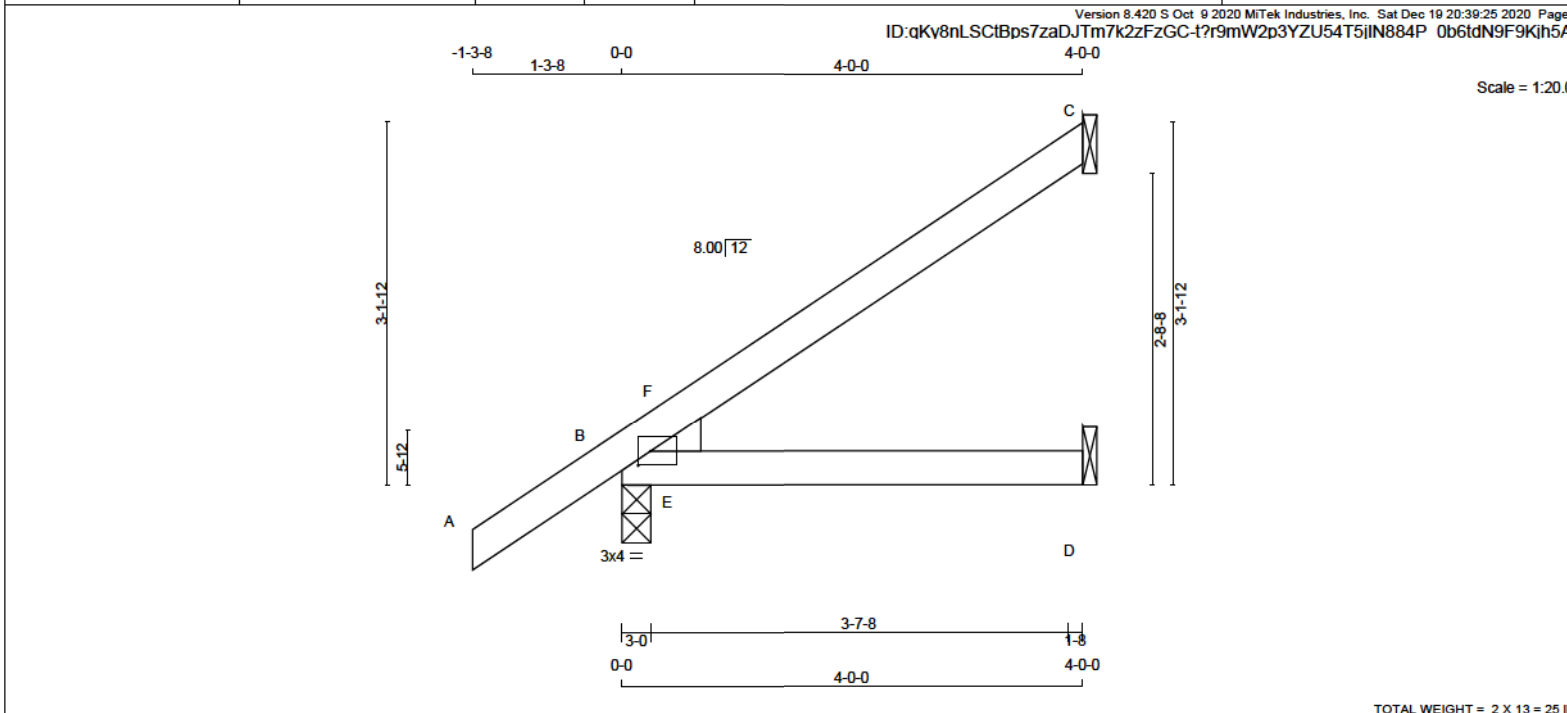


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

A - C 2x4 DRY No.2

B - D 2x4 DRY No.2

DRY: SEASONED LUMBER.

DESCR.

SPF

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMBH1-I	MT20	3.0	4.0	1.50 1.25

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	HEEL WEDGE
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
C	217	0	217	0	0
B	498	0	498	0	0
D	110	0	110	0	0

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	1ST LCASE	MAX	MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE	PERM. LIVE
C	152	115 / 0	6 / 0	0 / 0
B	360	235 / 0	42 / 0	0 / 0
D	91	24 / 0	36 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO	LENGTH	FR-TO	
A- B	0 / 41	-124.4 -124.4	0.17 (1)	10.00	
B- F	-58 / 0	-124.4 -124.4	0.07 (3)	6.25	
F- C	0 / 7	-124.4 -124.4	0.26 (1)	10.00	
B- E	0 / 0	-39.2 -39.2	0.20 (1)	10.00	
E- D	0 / 0	-39.2 -39.2	0.21 (1)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF

DL = 8.0 PSF

BOT CH. LL = 10.5 PSF

DL = 7.3 PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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- PART 9 OF OBC 2012 (2019 AMENDMENT)

- CSA 086-14

- TPIC 2014

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)

EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")

CALCULATED VERT. DEFL.(LL) = L/ 999 (0.03")

ALLOWABLE DEFL.(TL)= L/360 (0.19")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.05")

CSI: TC=0.26/1.00 (C-F:1), BC=0.21/1.00 (D-E:1), WB=0.00/1.00 (E-F:1), SSI=0.23/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

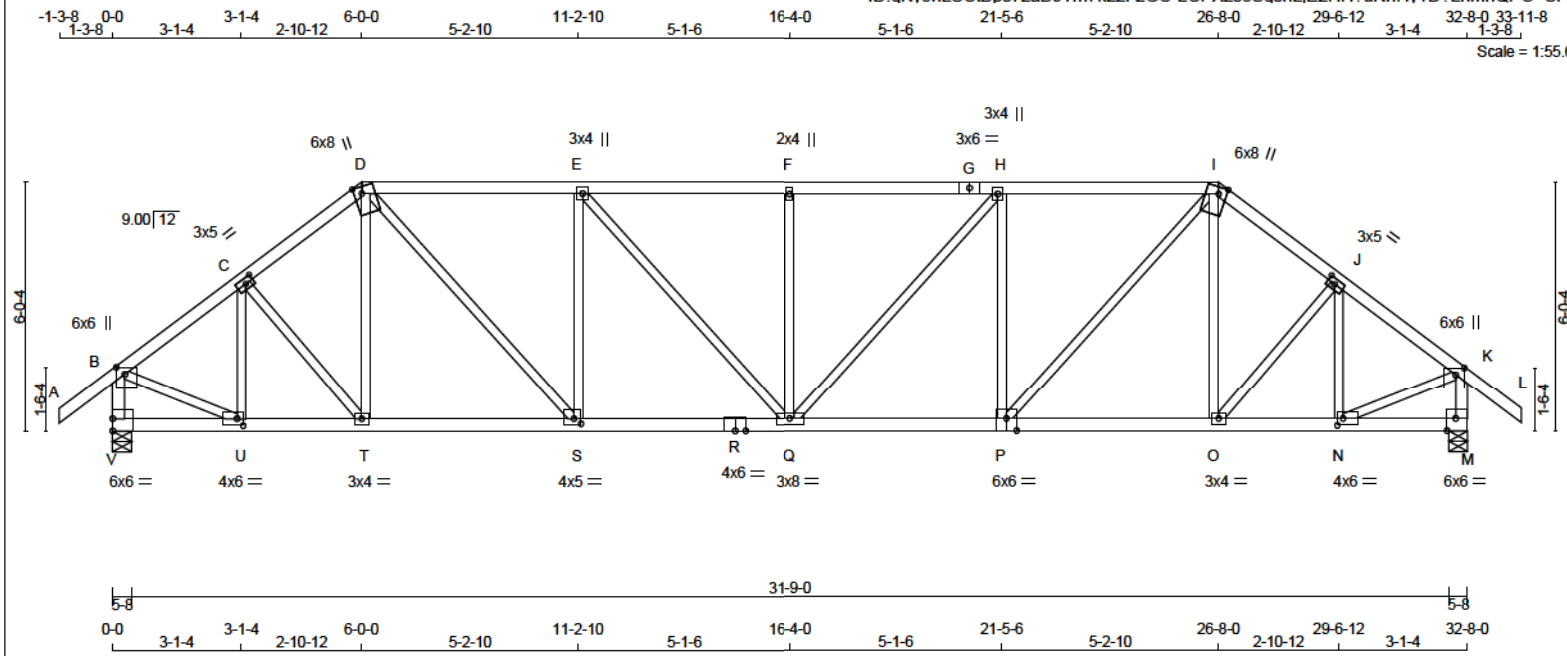
PLATE PLACEMENT TOL. = 0.250 inches

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Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sat Dec 19 20:39:26 2020 Page 1
ID:qKy8nLSctBps7zaDjTm7k2zFzGC-LCPXzs3SqsHJE2HH?uNhHy1D?LhMhQPO SFecy



TOTAL WEIGHT = 148 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
B - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
V - R	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
EXCEPT				

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	6.0	2.00	2.50
C	TMVW-t	MT20	3.0	5.0	1.50	2.25
D	TTVW+m	MT20	6.0	8.0	2.00	2.25
E	TMVW-t	MT20	3.0	4.0		
F	TMVW-w	MT20	2.0	4.0		
G	TS-t	MT20	3.0	6.0		
H	TMVW-t	MT20	3.0	4.0		
I	TTVW+m	MT20	6.0	8.0	2.00	2.25
J	TMVW-t	MT20	3.0	5.0	1.50	2.25
K	TMVW+p	MT20	6.0	6.0	2.00	2.50
M	BMVW-t	MT20	6.0	6.0	Edge 2.50	
N	BMVW-t	MT20	4.0	6.0	2.00	1.75
O	BMVW-t	MT20	3.0	4.0		
P	BSWW-t	MT20	6.0	6.0	Edge 3.00	
Q	BMVW-t	MT20	3.0	8.0		
R	BS-t	MT20	4.0	6.0		
S	BMVW-t	MT20	4.0	5.0	1.50	2.00
T	BMVW-t	MT20	3.0	4.0		
U	BMVW-t	MT20	4.0	6.0	2.00	1.75
V	BMVW-t	MT20	6.0	6.0	3.50	

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

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
V	2845	0	2845	0	0
M	2845	0	2845	0	0

UNFACTORED REACTIONS							
1ST LCASE MAX/MIN COMPONENT REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	2098	1233	0	343	0	0	0
M	2098	1233	0	343	0	0	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.82 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.

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	0 / 51	-124.4	-124.4	0.17 (1)	10.00	U-C	-735 / 0
B-C	-2686 / 0	-124.4	-124.4	0.26 (1)	4.01	C-T	0 / 216
C-D	-2916 / 0	-124.4	-124.4	0.27 (1)	3.86	T-D	0 / 133
D-E	-3506 / 0	-124.4	-124.4	0.76 (1)	3.01	D-S	0 / 1782
E-F	-3862 / 0	-124.4	-124.4	0.80 (1)	2.82	S-E	-1116 / 0
F-G	-3862 / 0	-124.4	-124.4	0.80 (1)	2.82	E-Q	0 / 530
G-H	-3862 / 0	-124.4	-124.4	0.80 (1)	2.82	Q-F	-586 / 0
H-I	-3496 / 0	-124.4	-124.4	0.76 (1)	3.02	F-H	0 / 549
I-J	-2921 / 0	-124.4	-124.4	0.27 (1)	3.85	P-H	-1131 / 0
J-K	-2684 / 0	-124.4	-124.4	0.25 (1)	4.02	P-I	0 / 1757
K-L	0 / 51	-124.4	-124.4	0.17 (1)	10.00	O-I	0 / 164
V-B	-2785 / 0	0.0	0.0	0.29 (1)	5.17	O-J	0 / 225
M-K	-2783 / 0	0.0	0.0	0.29 (1)	5.17	N-J	-746 / 0
V-U	0 / 0	-39.2	-39.2	0.07 (2)	10.00	B-U	0 / 2321
U-T	0 / 2167	-39.2	-39.2	0.45 (1)	10.00	N-K	0 / 2319
T-S	0 / 2307	-39.2	-39.2	0.47 (1)	10.00		
S-R	0 / 3509	-39.2	-39.2	0.68 (1)	10.00		
R-Q	0 / 3509	-39.2	-39.2	0.68 (1)	10.00		
Q-P	0 / 3467	-39.2	-39.2	0.69 (1)	10.00		
P-O	0 / 2312	-39.2	-39.2	0.50 (1)	10.00		
O-N	0 / 2165	-39.2	-39.2	0.48 (1)	10.00		
N-M	0 / 0	-39.2	-39.2	0.08 (2)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSI: TC=0.80/1.00 (F-H-1), BC=0.69/1.00 (P-Q-1),
WB=0.64/1.00 (H-P-1), SSI=0.30/1.00 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL = 0.80 (R) (INPUT = 1.00)

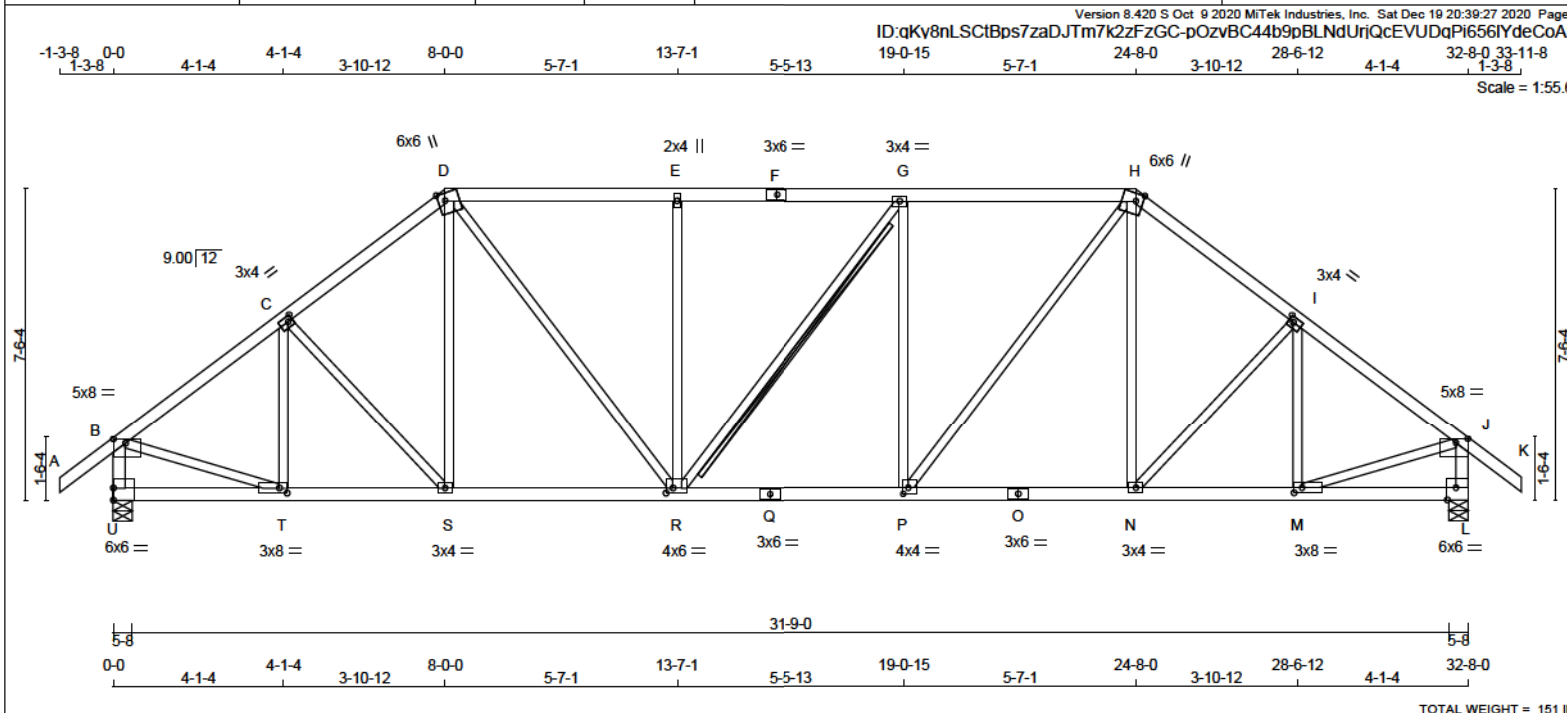


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
F - H	2x4	DRY	No.2	SPF
H - K	2x4	DRY	No.2	SPF
U - B	2x4	DRY	No.2	SPF
L - J	2x4	DRY	No.2	SPF
U - Q	2x4	DRY	No.2	SPF
Q - O	2x4	DRY	No.2	SPF
O - L	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-p	MT20	5.0	8.0	1.25	3.50
C	TMVW-t	MT20	3.0	4.0	1.50	1.50
D	TTWW+m	MT20	6.0	6.0	Edge	2.00
E	TMVW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMVW-t	MT20	3.0	4.0		
H	TTWW+m	MT20	6.0	6.0	Edge	2.00
I	TMVW-t	MT20	3.0	4.0	1.50	1.50
J	TMVW-p	MT20	5.0	8.0	1.25	3.50
L	BMV1-t	MT20	6.0	6.0	Edge	2.50
M	BMVW-t	MT20	3.0	8.0	1.50	2.25
N	BMVW-t	MT20	3.0	4.0		
O	BS-t	MT20	3.0	6.0		
P	BMVW-t	MT20	4.0	4.0	1.75	1.50
Q	BS-t	MT20	3.0	6.0		
R	BMVW-t	MT20	4.0	6.0	1.50	2.00
S	BMVW-t	MT20	3.0	4.0		
T	BMVW-t	MT20	3.0	8.0	1.50	2.25
U	BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	DOWN	5-8	5-8
U	HORZ	UPLIFT	IN-SX	IN-SX
L			5-8	5-8

UNFACTORED REACTIONS

1ST CASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
U	2098	1233 / 0	343 / 0
L	2098	1233 / 0	343 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.23 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

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

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 80% OF WEB LENGTH.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS (LC)
FR-TO				FR-TO			
A-B	0 / 51	-124.4	-124.4 0.17 (1)	10.00	T-C	-515 / 0	0.18 (1)
B-C	-2851 / 0	-124.4	-124.4 0.47 (1)	3.69	C-S	-86 / 0	0.05 (1)
C-D	-2852 / 0	-124.4	-124.4 0.46 (1)	3.69	S-D	0 / 292	0.07 (2)
D-E	-2997 / 0	-124.4	-124.4 0.75 (1)	3.25	D-R	0 / 1216	0.27 (1)
E-F	-2997 / 0	-124.4	-124.4 0.75 (1)	3.23	R-E	-743 / 0	0.76 (1)
F-G	-2997 / 0	-124.4	-124.4 0.75 (1)	3.23	R-G	-3 / 0	0.00 (1)
G-H	-2999 / 0	-124.4	-124.4 0.76 (1)	3.23	P-G	-744 / 0	0.76 (1)
H-I	-2852 / 0	-124.4	-124.4 0.46 (1)	3.69	P-H	0 / 1219	0.27 (1)
I-J	-2851 / 0	-124.4	-124.4 0.47 (1)	3.69	N-H	0 / 290	0.07 (2)
J-K	0 / 51	-124.4	-124.4 0.17 (1)	10.00	N-I	-86 / 0	0.05 (1)
U-B	-2773 / 0	0.0	0.0 0.29 (1)	5.17	M-I	-514 / 0	0.18 (1)
L-J	-2773 / 0	0.0	0.0 0.29 (1)	5.17	B-T	0 / 2403	0.54 (1)
U-T	0 / 0	-39.2	-39.2 0.11 (3)	10.00	M-J	0 / 2403	0.54 (1)
T-S	0 / 2307	-39.2	-39.2 0.48 (1)	10.00			
S-R	0 / 2253	-39.2	-39.2 0.48 (1)	10.00			
R-Q	0 / 2999	-39.2	-39.2 0.61 (1)	10.00			
Q-P	0 / 2999	-39.2	-39.2 0.61 (1)	10.00			
P-O	0 / 2252	-39.2	-39.2 0.49 (1)	10.00			
O-N	0 / 2252	-39.2	-39.2 0.49 (1)	10.00			
N-M	0 / 2308	-39.2	-39.2 0.48 (1)	10.00			
M-L	0 / 0	-39.2	-39.2 0.11 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF
DL = 8.0 PSF

BOT CH. LL = 10.5 PSF
DL = 7.3 PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.14")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.24")

CSI: TC=0.76/1.00 (G-H:1), BC=0.61/1.00 (P-R:1), WB=0.76/1.00 (G-P:1), SSI=0.32/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90)
JSI METAL = 0.98 (Q) (INPUT = 1.00)

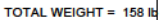


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

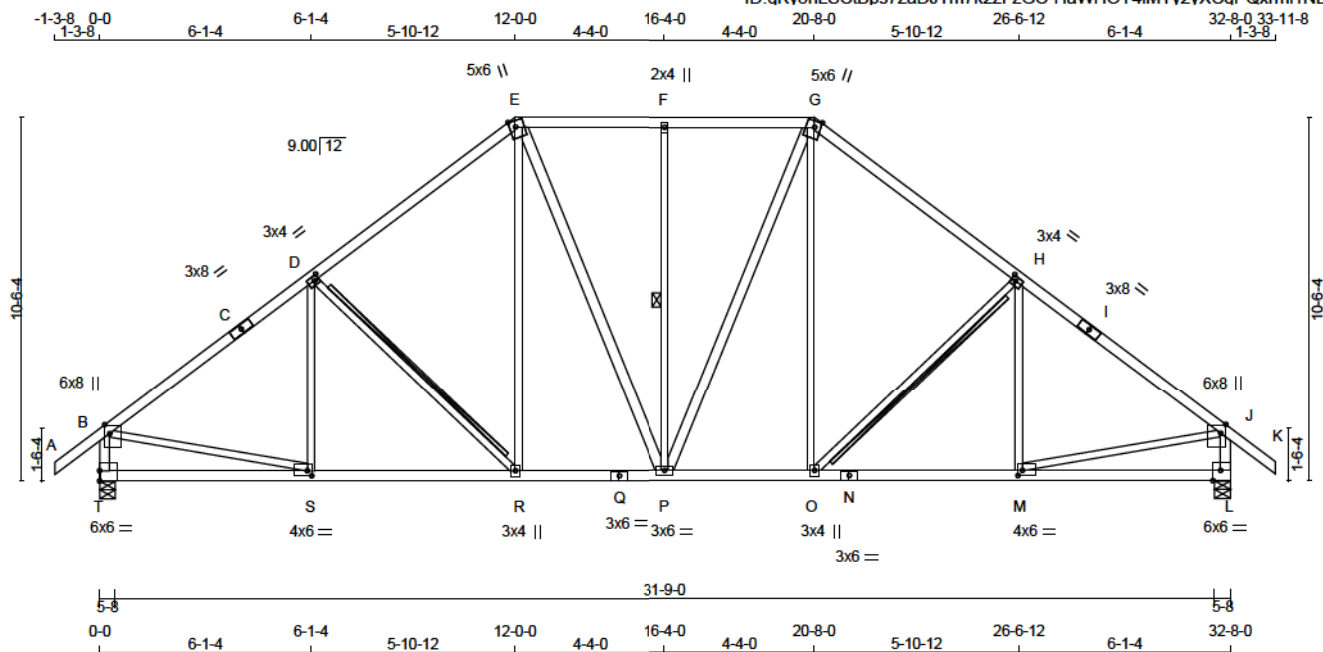
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



JSI METAL= 0.69 (M) (INPUT = 1.00)

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THIS DRAWING AS IT CONTAINS
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THE DESIGN OF THIS COMPONENT.**

Version 8.420 S Oct 9 2020 MTEK Industries, Inc. Sat Dec 19 20:39:28 2020 Page 1



Scale = 1:66.6

TOTAL WEIGHT = 168 lb

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
I - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - Q	2x4	DRY	No.2
Q - N	2x4	DRY	No.2
N - L	2x4	DRY	No.2
ALL WEBS			
E - P	2x4	DRY	No.2
P - G	2x4	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	6.0	8.0	3.00	1.75
C TS-t	MT20	3.0	8.0		
D TMWW-t	MT20	3.0	4.0	1.50	1.50
E TTWW+m	MT20	5.0	6.0	Edge 2.00	
F TMW+w	MT20	2.0	4.0		
G TTWW+m	MT20	5.0	6.0	Edge 2.00	
H TMWW-t	MT20	3.0	4.0	1.50	1.50
I TS-t	MT20	3.0	8.0		
J TMVW+p	MT20	6.0	8.0	3.00	1.75
L BMV1-t	MT20	6.0	6.0	Edge 2.50	
M BMWW-t	MT20	4.0	6.0		
N BS-t	MT20	3.0	6.0		
O BMWW-t	MT20	3.0	4.0		
P BMWW-t	MT20	3.0	6.0		
Q BS-t	MT20	3.0	6.0		
R BMWW-t	MT20	3.0	4.0		
S BMWW-t	MT20	4.0	6.0	1.75	1.50
T BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQRD BRG
JT VERT	2845	0	2845	0
T	2845	0	2845	0
L	2845	0	2845	0

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	2098	1233 / 0	343 / 0
T	2098	1233 / 0	343 / 0
L	2098	1233 / 0	343 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.19 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 F-P. DBS = 20-00. CBF = 81 LBS.
2x4 DRY SPF No.2 T-BRACE AT D-R, H-O

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

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 51	-124.4 -124.4	0.17 (1)	10.00	S-D	-203 / 146	0.12 (1)
B-C	-2968 / 0	-124.4 -124.4	0.83 (1)	3.19	D-R	-592 / 0	0.31 (1)
C-D	-2968 / 0	-124.4 -124.4	0.83 (1)	3.19	R-E	0 / 610	0.14 (1)
D-E	-2547 / 0	-124.4 -124.4	0.73 (1)	3.52	E-P	0 / 432	0.07 (1)
E-F	-2165 / 0	-124.4 -124.4	0.34 (1)	4.30	P-F	-846 / 0	0.50 (1)
F-G	-2165 / 0	-124.4 -124.4	0.34 (1)	4.30	P-G	0 / 432	0.07 (1)
G-H	-2547 / 0	-124.4 -124.4	0.73 (1)	3.52	O-G	0 / 610	0.14 (1)
H-I	-2968 / 0	-124.4 -124.4	0.83 (1)	3.19	O-H	-592 / 0	0.31 (1)
I-J	-2968 / 0	-124.4 -124.4	0.83 (1)	3.19	M-H	-203 / 146	0.12 (1)
J-K	0 / 51	-124.4 -124.4	0.17 (1)	10.00	B-S	0 / 2462	0.55 (1)
T-B	-2748 / 0	0.0	0.0	5.20	M-J	0 / 2462	0.55 (1)
L-J	-2748 / 0	0.0	0.0	5.20			
T-S	0 / 0	-39.2 -39.2	0.29 (3)	10.00			
S-R	0 / 2417	-39.2 -39.2	0.58 (2)	10.00			
R-Q	0 / 1967	-39.2 -39.2	0.43 (1)	10.00			
Q-P	0 / 1967	-39.2 -39.2	0.43 (1)	10.00			
P-O	0 / 1967	-39.2 -39.2	0.43 (1)	10.00			
O-N	0 / 2417	-39.2 -39.2	0.58 (2)	10.00			
N-M	0 / 2417	-39.2 -39.2	0.58 (2)	10.00			
M-L	0 / 0	-39.2 -39.2	0.29 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 34.8	PSF
	DL	= 8.0	PSF
BOT CH.	LL	= 10.5	PSF
	DL	= 7.3	PSF
TOTAL LOAD		= 60.6	PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.83/1.00 (B-D-1), BC=0.58/1.00 (R-S-2), WB=0.55/1.00 (B-S-1), SSI=0.29/1.00 (B-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN
MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (P) (INPUT = 0.90)
JSI METAL = 0.71 (N) (INPUT = 1.00)

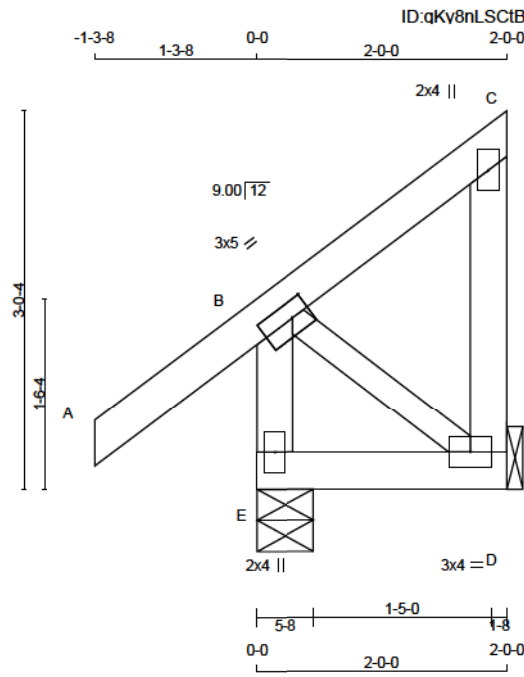


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





Scale = 1:18.4

TOTAL WEIGHT = 7 X 13 = 88 lb

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

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

PLATES (table is in inches)						
JT TYPE	PLATES	W	LEN	Y	X	
B	TMVW-t	MT20	3.0	5.0	1.50	1.75
C	TMV+p	MT20	2.0	4.0		
D	BMVW1-t	MT20	3.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX
E	335	0	335	0	5-8
D	164	0	164	0	1-8

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) D

UNFACTORED REACTIONS		1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
E	239	166 / 0	21 / 0	0 / 0	0 / 0
D	121	70 / 0	21 / 0	0 / 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 = 10.00 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING		TOTAL LOAD CASES: (5)									
		CHORDS					WEBS				
MEMB.	FORCE (LBS)	MAX. FACTORED	FACTORED	VERT. LOAD (PLF)	LC1 MAX	LC2 MAX	MEMB.	FORCE (LBS)	MAX. FACTORED	FACTORED	VERT. LOAD (PLF)
FR-TO				FROM	TO	LENGTH	FR-TO				
E-B	-298 / 0			0.0	0.0	0.03 (1)	7.81	B-D	0 / 0		0.00 (1)
A-B	0 / 51			-124.4	-124.4	0.17 (1)	10.00				
B-C	0 / 0			-124.4	-124.4	0.08 (1)	10.00				
D-C	-124 / 0			0.0	0.0	0.02 (1)	7.81				
E-D	0 / 0			-39.2	-39.2	0.04 (3)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

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

CSI: TC=0.17/1.00 (A-B:1), BC=0.04/1.00 (D-E:3), WB=0.00/1.00 (B-D:1), SSI=0.11/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.24 (B) (INPUT = 0.90)

JSI METAL= 0.07 (C) (INPUT = 1.00)

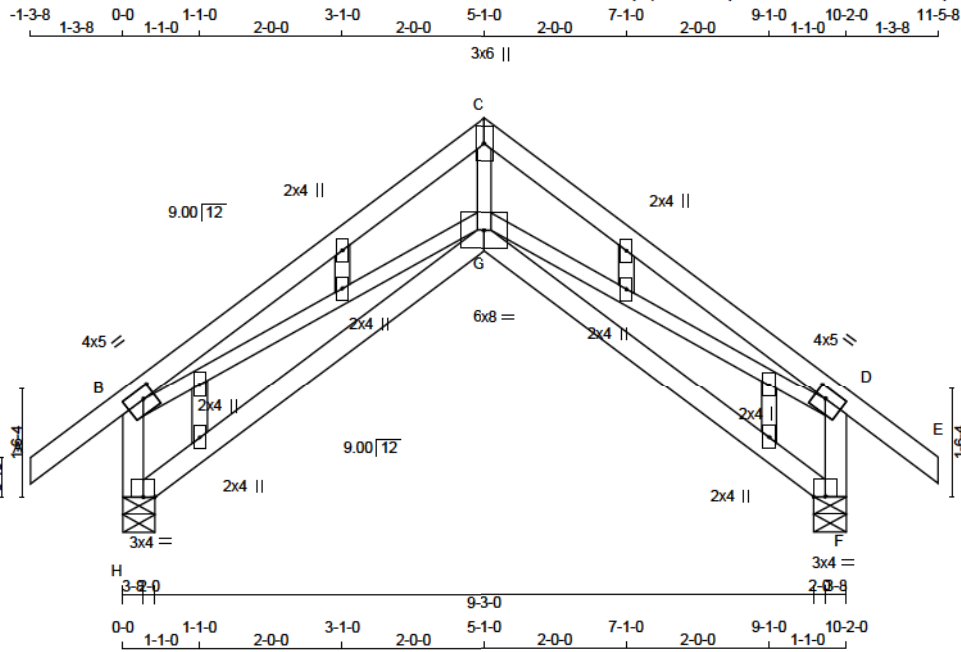


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



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LUMBER				DESCR.
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	
H - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
C - E	2x4	DRY	No.2	SPF
F - D	2x4	DRY	No.2	SPF
H - G	2x4	DRY	No.2	SPF
G - F	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF
ALL GABLE WEBS	2x3	DRY	No.2	SPF
GABLE STUDS SPACED AT 2-0-0 OC.				

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW-1	MT20	4.0	5.0	1.75 2.00
C TTW+p	MT20	3.0	6.0	
D TMVW-1	MT20	4.0	5.0	1.75 2.00
F BVM1-p	MT20	3.0	4.0	
G BBWWV-p	MT20	6.0	8.0	
H BVM1-p	MT20	3.0	4.0	
I, J, K, L, M, N, O, P				
I NP+w	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 IN-SX	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	IN-SX	IN-SX
H	1004	0	1004	0	0	5-8	5-8		
F	1004	0	1004	0	0	5-8	5-8		

UNFACTORED REACTIONS		1ST LCASE		MAX/MIN COMPONENT REACTIONS	
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND
H	734	450 / 0	107 / 0	0 / 0	178 / 0
F	734	450 / 0	107 / 0	0 / 0	178 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	UNBRAC	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM	TO	LENGTH	FR-TO		
H-B	-904 / 0	0.0	0.0 0.10 (1)	7.81	G-C	0 / 1482	0.33 (1)
A-B	0 / 51	-124.4	-124.4 0.17 (1)	10.00	G-D	0 / 1549	0.35 (1)
B-C	-1702 / 0	-124.4	-124.4 0.47 (1)	4.51	B-G	0 / 1549	0.35 (1)
C-D	-1702 / 0	-124.4	-124.4 0.47 (1)	4.51			
D-E	0 / 51	-124.4	-124.4 0.17 (1)	10.00			
F-D	-904 / 0	0.0	0.0 0.10 (1)	7.81			
H-G	0 / 0	-39.2	-39.2 0.25 (3)	10.00			
G-F	0 / 0	-39.2	-39.2 0.25 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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:
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- 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 (0.34")
CALCULATED VERT. DEFL. (LL) = L/999 (0.09")
ALLOWABLE DEFL. (TL) = L/360 (0.34")
CALCULATED VERT. DEFL. (TL) = L/819 (0.15")

CSI: TC=0.47/1.00 (C-D-1), BC=0.25/1.00 (G-H-3),
WB=0.35/1.00 (D-G-1), SSI=0.20/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (B) (INPUT = 0.90)
JSI METAL = 0.56 (D) (INPUT = 1.00)

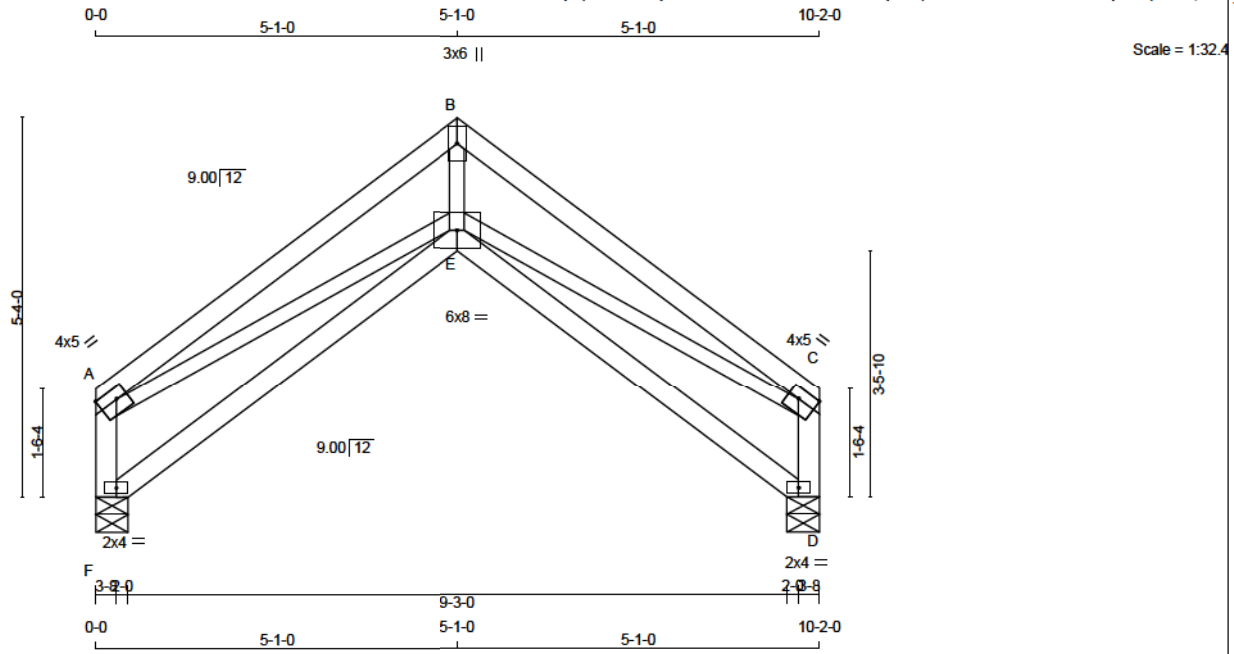


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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TOTAL WEIGHT = 2 X 42 = 84 lb

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

PLATES (table is in inches)					
JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-t	MT20	4.0	5.0	1.75	Edge
B - TTW+p	MT20	3.0	6.0		
C - TMVW-t	MT20	4.0	5.0	1.75	Edge
D - BVM1-p	MT20	2.0	4.0		
E - BBWW-p	MT20	6.0	8.0		
F - BVM1-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

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
F	832	0	832	0
D	832	0	832	0

UNFACTORED REACTIONS

1ST LCASE	MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD
F	616	354 / 0	107 / 0	0 / 0	0 / 0	156 / 0
D	616	354 / 0	107 / 0	0 / 0	0 / 0	156 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLINE SPACING = 4.51 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
F-A	-732 / 0	0.0	0.0	0.08 (1)	E-B	0 / 1482	0.33 (1)
A-B	-1762 / 0	-124.4	-124.4	0.47 (1)	E-C	0 / 1549	0.35 (1)
B-C	-1762 / 0	-124.4	-124.4	0.47 (1)	A-E	0 / 1549	0.35 (1)
D-C	-732 / 0	0.0	0.0	0.08 (1)			
F-E	0 / 0	-39.2	-39.2	0.24 (3)			10.00
E-D	0 / 0	-39.2	-39.2	0.24 (3)			10.00

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	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, ABC 2019
- 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 (0.34")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL)= L/360 (0.34")
CALCULATED VERT. DEFL.(TL) = L/821 (0.15")

CSI: TC=0.47/1.00 (B-C:1), BC=0.24/1.00 (E-F:3),
WB=0.35/1.00 (C-E:1), SSI=0.20/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.82 (C) (INPUT = 0.90)
JSI METAL = 0.64 (D) (INPUT = 1.00)

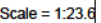


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



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TOTAL WEIGHT = 4 X 12 = 48 lb

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL	=	34.8	PSF
		DL	=	8.0	PSF
BOT	CH.	LL	=	10.5	PSF
		DL	=	7.3	PSF
TOTAL LOAD				= 60.6	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:

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- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.21/1.00 (C-G:1) , BC=0.18/1.00 (E-F:1) ,
WB=0.00/1.00 (F-G:1) , SSI=0.20/1.00 (B-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.45 (B) (INPUT = 0.90)
JSI METAL= 0.07 (B) (INPUT = 1.00)

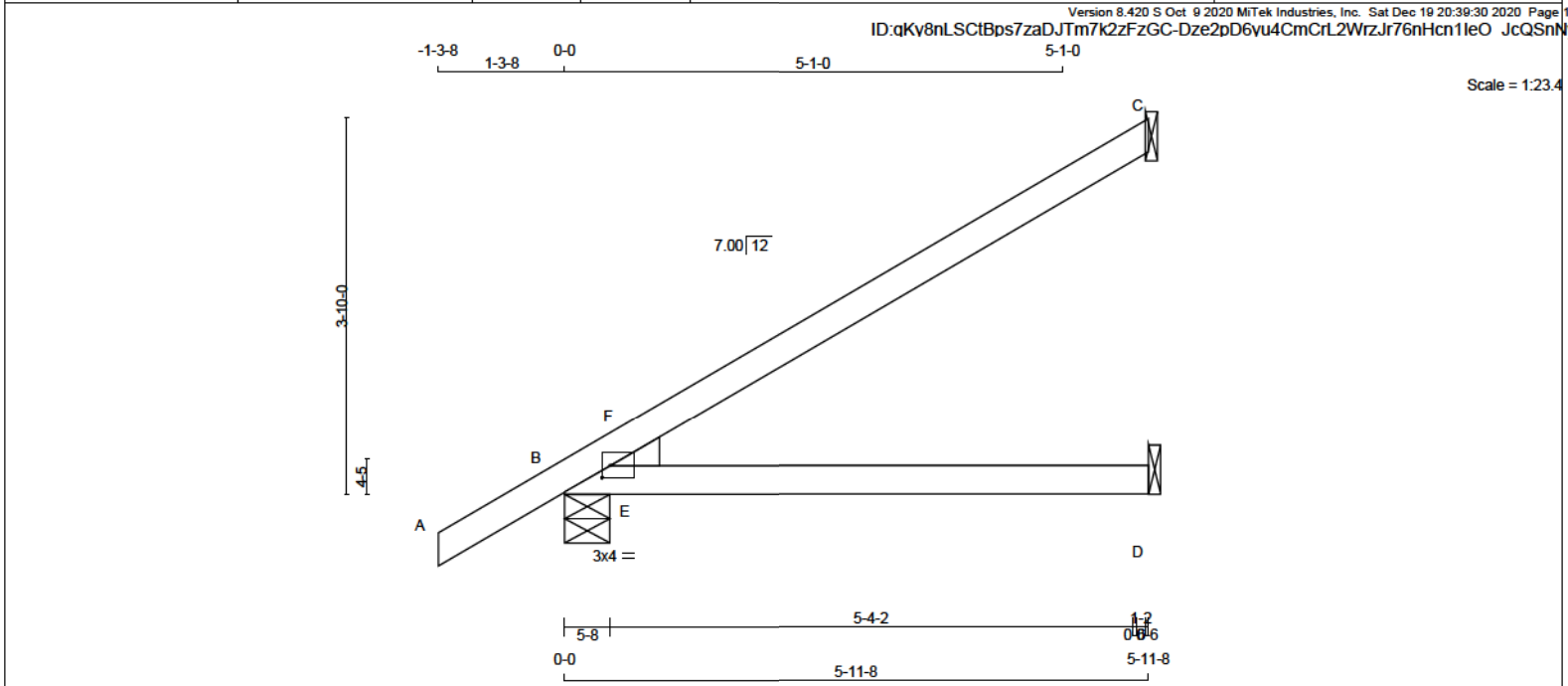


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Building Code	H. Authier	43236	2021-02-0
Sewage System			
Zoning			



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LUMBER

N. L. G. A. RULES

CHORDS SIZE LUMBER

A - C 2x4 DRY No.2

B - D 2x4 DRY 2100F 1.8E

DESCR. SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE PLATES W LEN Y X

B TMBH1-I MT20 3.0 4.0 1.50 1.00

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

BEARINGS

JT	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	HEEL
C	315	315	0	1-8	
B	657	657	0	5-8	2x4 L
D	172	180	0	1-8	

SEE MITEK STANDARD DETAIL B97791H FOR CONNECTION TO JOINT(S) C, D

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
C	220	168 / 0	8 / 0	0 / 0	0 / 0	44 / 0	0 / 0
B	478	302 / 0	63 / 0	0 / 0	0 / 0	113 / 0	0 / 0
D	141	39 / 0	55 / 0	0 / 0	0 / 0	47 / 0	0 / 0

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

BRACING

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

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (SI) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LBS)	SI (LC)
FR-TO		FROM TO		FR-TO			
A-B	0 / 41	-124.4 -124.4	0.16 (1) 10.00	E-F	-457 / 80		0.00 (1)
B-F	-57 / 41	-124.4 -124.4	0.12 (3) 6.25				
F-C	-5 / 7	-124.4 -124.4	0.54 (1) 10.00				
B-E	0 / 0	-39.2 -39.2	0.33 (1) 10.00				
E-D	0 / 0	-39.2 -39.2	0.34 (1) 10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF
DL = 8.0 PSF

BOT CH. LL = 10.5 PSF
DL = 7.3 PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN C/C

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

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- 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 (0.20")
CALCULATED VERT. DEFL.(LL) = L/628 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/365 (0.20")

CSI: TC=0.54/1.00 (C-F:1), BC=0.34/1.00 (D-E:1),
WB=0.00/1.00 (E-F:1), SSI=0.40/1.00 (B-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION

(PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

Dec 19, 2020

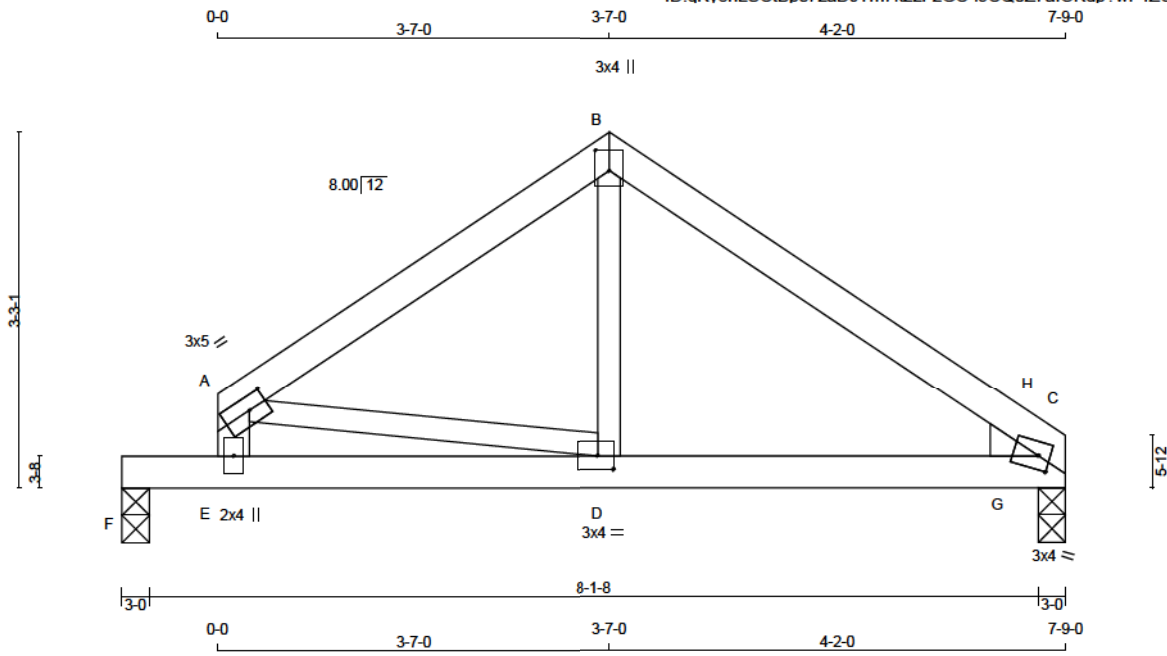
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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





Scale = 1:21.1

TOTAL WEIGHT = 2 X 27 = 53 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A - TMVW-t	MT20	3.0	5.0	1.50	2.00
B - TTW+p	MT20	3.0	4.0	2.25	1.50
C - TMBH1-m	MT20	3.0	4.0	1.50	1.25
D - BMVW-t	MT20	3.0	4.0	1.50	1.75
E - BMV+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	HEEL	
JT VERT	JT HORZ	DOWN	HORZ	UPLIFT	IN-SX
F 706	0	706	0	0	3-0
C 706	0	706	0	0	3-0

UNFACTORED REACTIONS							
1ST LCASE	MAX/MIN COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	523	300 / 0	91 / 0	0 / 0	0 / 0	132 / 0	0 / 0
C	523	300 / 0	91 / 0	0 / 0	0 / 0	132 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 8.25 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	-717 / 0	-124.4	-124.4	0.28 (1)	6.25	D-B	0 / 380
B-H	-732 / 0	-124.4	-124.4	0.23 (1)	6.25	A-D	0 / 604
H-C	-700 / 0	-124.4	-124.4	0.14 (1)	6.25	G-H	-294 / 29
E-A	-712 / 0	0.0	0.0	0.07 (1)	7.81		
F-E	0 / 0	-163.7	-163.7	0.76 (1)	10.00		
E-D	0 / 0	-39.2	-39.2	0.76 (1)	10.00		
D-G	0 / 597	-39.2	-39.2	0.41 (1)	10.00		
G-C	0 / 597	-39.2	-39.2	0.29 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	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, ABC 2019
- 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 (0.29")
CALCULATED VERT. DEFL (LL) = L/999 (0.10")
ALLOWABLE DEFL (TL) = L/360 (0.29")
CALCULATED VERT. DEFL (TL) = L/605 (0.17")

CSI: TC=0.28/1.00 (A-B-1), BC=0.76/1.00 (E-F-1),
WB=0.14/1.00 (A-D-1), SSI=0.55/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (D) (INPUT = 0.90)
JSI METAL = 0.27 (C) (INPUT = 1.00)

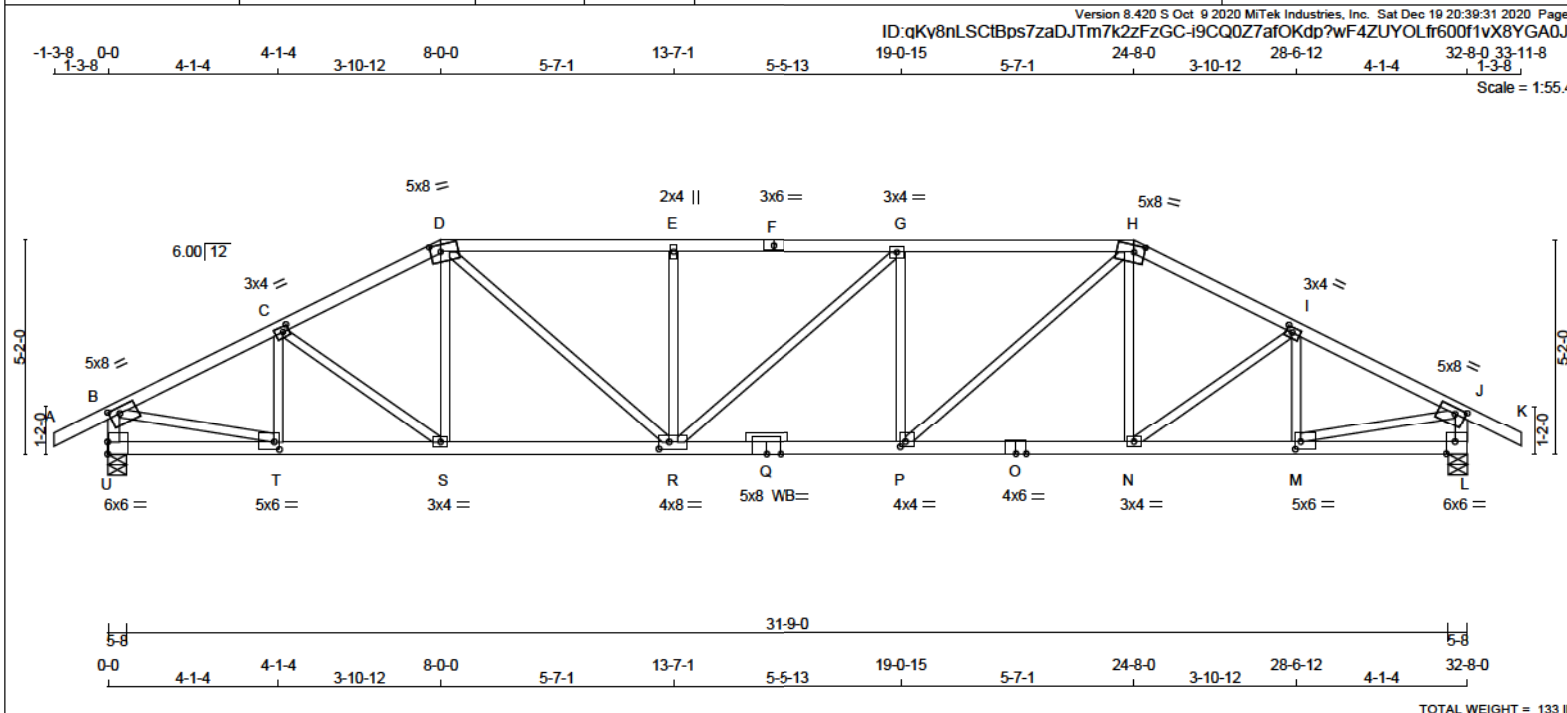


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

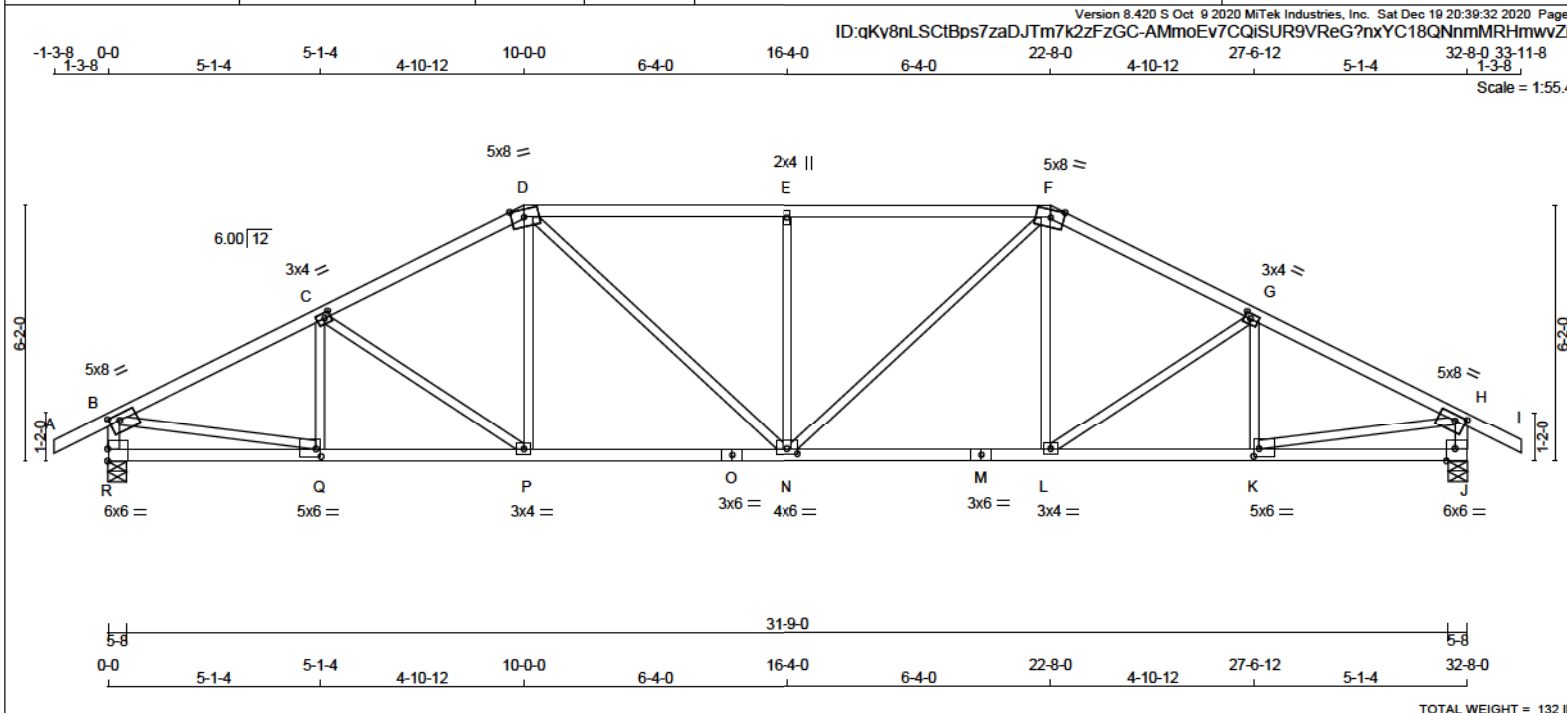


LUMBER							DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA			
N. L. G. A. RULES							BEARINGS										SPECIFIED LOADS:			
CHORDS SIZE LUMBER DESCR.							FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG										TOP CH. LL = 34.8 PSF			
A - D 2x4 DRY No.2 SPF							JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 8.0 PSF			
D - F 2x4 DRY No.2 SPF							U 2842 0 2842 0 0 5-8 5-8										BOT CH. LL = 10.5 PSF			
F - H 2x4 DRY No.2 SPF							L 2842 0 2842 0 0 5-8 5-8										DL = 7.3 PSF			
H - K 2x4 DRY No.2 SPF							UNFACTORED REACTIONS										TOTAL LOAD = 60.6 PSF			
U - B 2x4 DRY No.2 SPF							1ST LCASE MAX MIN COMPONENT REACTIONS										SPACING = 24.0 IN. C/C			
L - J 2x4 DRY No.2 SPF							JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM			
U - Q 2x4 DRY No.2 SPF							U 2098 1232 / 0 343 / 0 0 / 0 0 / 0 522 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015			
Q - O 2x4 DRY No.2 SPF							L 2098 1232 / 0 343 / 0 0 / 0 0 / 0 522 / 0 0 / 0										THIS DESIGN COMPLIES WITH:			
O - L 2x4 DRY No.2 SPF							BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) U, L										- PART 9 OF BCBC 2018 , ABC 2019			
ALL WEBS 2x3 DRY No.2 SPF							BRACING										- PART 9 OF OBC 2012 (2019 AMENDMENT)			
EXCEPT							TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.46 FT.										- CSA 086-14			
DRY: SEASONED LUMBER.							MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										- TPIC 2014			
							ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.													
PLATES (table is in inches)							LOADING													
JT TYPE PLATES W LEN Y X							TOTAL LOAD CASES: (4)													
B TMVW-t MT20 5.0 8.0 1.75 3.00							CHORDS WEBS										(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			
C TMVW-t MT20 3.0 4.0 1.50 1.75							MAX. FACTORED FORCE (LBS) FACTORED VERT. LOAD (PLF) LC1 MAX (LC) UNBRACED LENGTH										ALLOWABLE DEFL.(LL)= L/360 (1.09")			
D TTWW-m MT20 5.0 8.0 2.00 3.00							MEMB. FORCE (LBS) MAX. UNBRACED LENGTH										CALCULATED VERT. DEFL.(LL) = L/999 (0.28")			
E TMVW-t MT20 2.0 4.0							FR-TO FROM TO										ALLOWABLE DEFL.(TL)= L/360 (1.09")			
F TS-t MT20 3.0 6.0							A-B 0 / 38 -124.4 -124.4 0.16 (1) 10.00 T-C -560 / 0 0.11 (1)										CALCULATED VERT. DEFL.(TL) = L/905 (0.43")			
G TMVW-t MT20 3.0 4.0							B-C -3747 / 0 -124.4 -124.4 0.51 (1) 3.21 C-S -47 / 0 0.02 (1)													
H TTWW-m MT20 5.0 8.0 2.00 3.00							C-D -3753 / 0 -124.4 -124.4 0.50 (1) 3.21 S-D 0 / 269 0.06 (2)													
I TMVW-t MT20 3.0 4.0 1.50 1.75							D-E -4441 / 0 -124.4 -124.4 0.98 (1) 2.48 D-R 0 / 1462 0.33 (1)													
J TMVW-t MT20 5.0 8.0 1.75 3.00							E-F -4441 / 0 -124.4 -124.4 0.97 (1) 2.47 R-E -745 / 0 0.29 (1)													
L BMV1-t MT20 6.0 6.0 Edge 2.50							F-G -4441 / 0 -124.4 -124.4 0.97 (1) 2.47 R-G -3 / 0 0.00 (1)													
M BMVW-t MT20 5.0 6.0 2.25 1.50							G-H -4443 / 0 -124.4 -124.4 0.99 (1) 2.46 P-G -746 / 0 0.29 (1)										CSI: TC=0.96/1.00 (G-H-1) , BC=0.83/1.00 (P-R-1) , WB=0.78/1.00 (J-M-1) , SSI=0.32/1.00 (G-H-1)			
N BMVW-t MT20 3.0 4.0							H-I -3753 / 0 -124.4 -124.4 0.50 (1) 3.21 P-H 0 / 1468 0.33 (1)										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10			
O BS-t MT20 4.0 6.0							I-J -3747 / 0 -124.4 -124.4 0.51 (1) 3.21 N-H 0 / 268 0.06 (2)										COMPANION LIVE LOAD FACTOR = 1.00			
P BMVW-t MT20 4.0 4.0 1.50 1.50							J-K 0 / 38 -124.4 -124.4 0.16 (1) 10.00 N-I -48 / 0 0.02 (1)													
Q BS-t MT20 5.0 8.0							U-B -2765 / 0 0.0 0.0 0.28 (1) 5.18 M-I -560 / 0 0.11 (1)													
R BMVW-t MT20 4.0 8.0 2.00 3.00							L-J -2765 / 0 0.0 0.0 0.28 (1) 5.18 B-T 0 / 3444 0.78 (1)													
S BMVW-t MT20 3.0 4.0							U-T 0 / 0 -39.2 -39.2 0.12 (2) 10.00 M-J 0 / 3444 0.78 (1)													
T BMVW-t MT20 5.0 6.0 2.25 1.50							T-S 0 / 3371 -39.2 -39.2 0.66 (1) 10.00													
U BMV1-t MT20 6.0 6.0 3.50							S-R 0 / 3338 -39.2 -39.2 0.65 (1) 10.00													
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.							R-Q 0 / 4443 -39.2 -39.2 0.83 (1) 10.00													
WB - INDICATES BLOCKING REQUIRED							Q-P 0 / 4443 -39.2 -39.2 0.83 (1) 10.00													
							P-O 0 / 3338 -39.2 -39.2 0.65 (1) 10.00													
							O-N 0 / 3338 -39.2 -39.2 0.65 (1) 10.00													
							N-M 0 / 3371 -39.2 -39.2 0.65 (1) 10.00													
							M-L 0 / 0 -39.2 -39.2 0.12 (2) 10.00													
																	NAIL VALUES			
																	PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)			
																	MAX MIN MAX MIN MAX MIN			
																	MT20 650 371 1747 768 1987 1873			
																	PLATE PLACEMENT TOL = 0.250 inches			

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

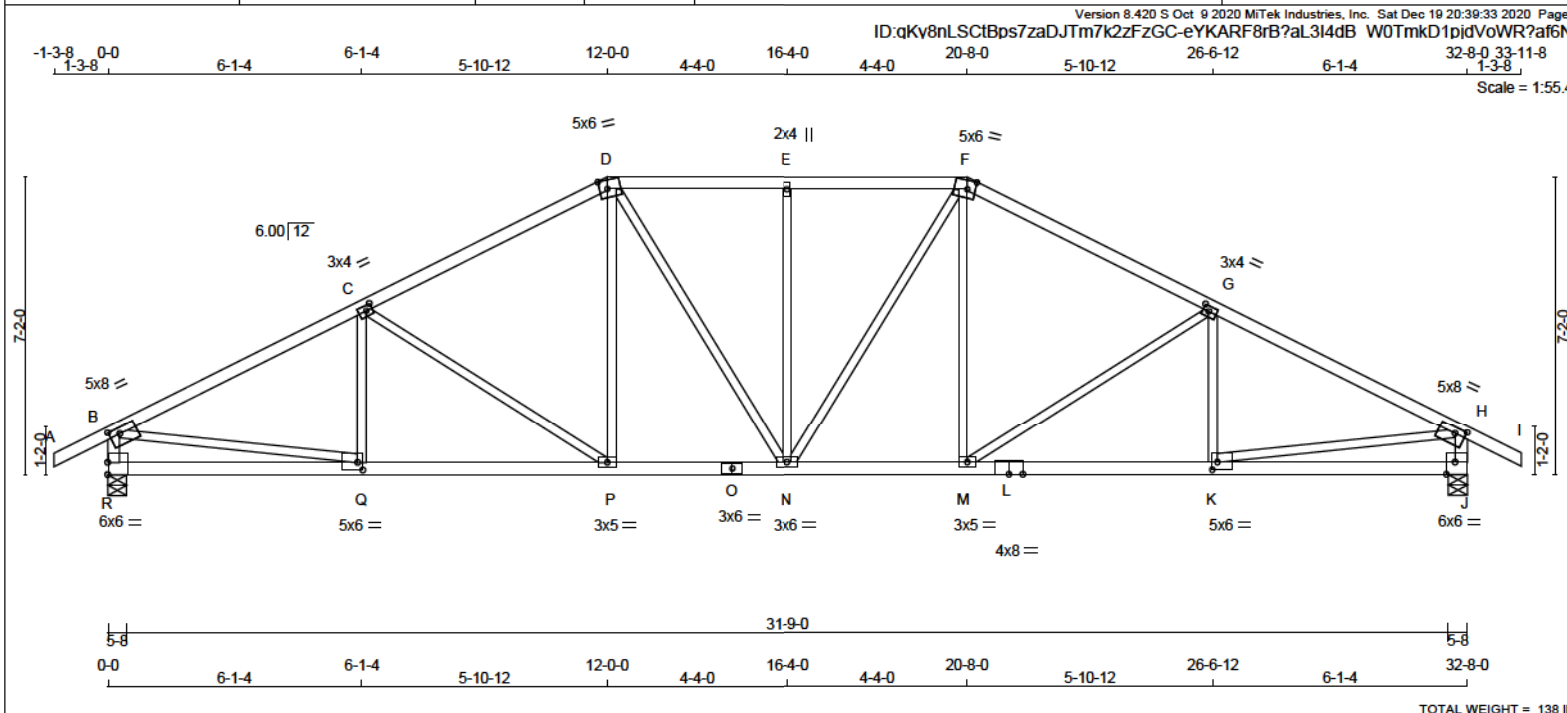


LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										FACTORED GROSS REACTION MAXIMUM FACTORED GROSS REACTION INPUT BRG REQRD BRG										TOP CH. LL = 34.8 PSF									
A - D 2x4 DRY No.2 SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										DL = 8.0 PSF									
D - F 2x4 DRY No.2 SPF										R 2842 0 2842 0 0 5-8 5-8										BOT CH. LL = 10.5 PSF									
R - B 2x4 DRY No.2 SPF										J 2842 0 2842 0 0 5-8 5-8										DL = 7.3 PSF									
J - H 2x4 DRY No.2 SPF																				TOTAL LOAD = 60.6 PSF									
R - O 2x4 DRY No.2 SPF																													
O - M 2x4 DRY No.2 SPF																													
M - J 2x4 DRY No.2 SPF																													
ALL WEBS 2x3 DRY No.2 SPF																													
EXCEPT																													
DRY: SEASONED LUMBER.																													
										UNFACTORED REACTIONS										SPACING = 24.0 IN. C/C									
										1ST LCASE MAX MIN COMPONENT REACTIONS																			
										JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL																			
										R 2098 1232 / 0 343 / 0 0 / 0 0 / 0 522 / 0 0 / 0																			
										J 2098 1232 / 0 343 / 0 0 / 0 0 / 0 522 / 0 0 / 0																			
										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) R, J										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
										BRACING										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.55 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.										THIS DESIGN COMPLIES WITH:									
										LOADING										- PART 9 OF BCBC 2018, ABC 2019									
										TOTAL LOAD CASES: (4)										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
																				- CSA 086-14									
																				- TPIC 2014									
PLATES (table is in inches)																				(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									
JT TYPE PLATES W LEN Y X										CHORDS WEBS										ALLOWABLE DEFL.(LL)= L/360 (1.09")									
B TMVW-t MT20 5.0 8.0 1.75 3.00										MAX. FACTORED FACTORED MAX. FACTORED										CALCULATED VERT. DEFL.(LL) = L/999 (0.21")									
C TMVW-t MT20 3.0 4.0 1.50 1.75										MEMB. FORCE (LBS) VERT. LOAD (PLF) LC1 MAX CSI (LC) UNBRAC MEMB. FORCE (LBS) MAX CSI (LC)										ALLOWABLE DEFL.(TL)= L/360 (1.09")									
D TTWW-m MT20 5.0 8.0 2.25 3.75										FR-TO FROM TO LENGTH FR-TO										CALCULATED VERT. DEFL.(TL) = L/999 (0.36")									
E TMW+w MT20 2.0 4.0										A-B 0 / 38 -124.4 -124.4 0.16 (1) 10.00 Q-C -388 / 19 0.09 (1)																			
F TTWW-m MT20 5.0 8.0 2.25 3.75										B-C -3877 / 0 -124.4 -124.4 0.61 (1) 3.06 C-P -388 / 0 0.25 (1)																			
G TMVW-t MT20 3.0 4.0 1.50 1.75										C-D -3583 / 0 -124.4 -124.4 0.56 (1) 3.22 P-D 0 / 463 0.10 (2)																			
H TMVW-t MT20 5.0 8.0 1.75 3.00										D-E -3838 / 0 -124.4 -124.4 0.90 (1) 2.55 D-N 0 / 893 0.20 (1)																			
J BMV1-t MT20 6.0 6.0 Edge 2.50										E-F -3838 / 0 -124.4 -124.4 0.90 (1) 2.55 N-E -966 / 0 0.58 (1)																			
K BMWW-t MT20 5.0 6.0 2.25 1.50										F-G -3583 / 0 -124.4 -124.4 0.56 (1) 3.22 N-F 0 / 893 0.20 (1)																			
L BMWW-t MT20 3.0 4.0										G-H -3877 / 0 -124.4 -124.4 0.61 (1) 3.06 L-F 0 / 463 0.10 (2)																			
M BS-t MT20 3.0 6.0										H-I 0 / 38 -124.4 -124.4 0.16 (1) 10.00 L-G -388 / 0 0.25 (1)																			
N BMWW-t MT20 4.0 6.0 1.50 3.00										R-B -2753 / 0 0.0 0.0 0.28 (1) 5.19 K-G -388 / 19 0.09 (1)																			
O BS-t MT20 3.0 6.0										J-H -2753 / 0 0.0 0.0 0.28 (1) 5.19 B-Q 0 / 3544 0.80 (1)																			
P BMWW-t MT20 3.0 4.0																				K-H 0 / 3544 0.80 (1)									
Q BMWW-t MT20 5.0 6.0 2.25 1.50																													
R BMV1-t MT20 6.0 6.0 3.50																													
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD.																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS= 1.10									
																				COMPANION LIVE LOAD FACTOR = 1.00									
																				TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .									
																				NAIL VALUES									
																				PLATE GRIP(DRY) SHEAR SECTION									
																				(PSI) (PLI) (PLI)									
																				MAX MIN MAX MIN MAX MIN									
																				MT20 650 371 1747 788 1987 1873									
																				PLATE PLACEMENT TOL. = 0.250 inches									
																				PLATE ROTATION TOL. = 5.0 Deg.									
																				JSI GRIP= 0.88 (O) (INPUT = 0.90)									
																				JSI METAL= 0.98 (M) (INPUT = 1.00)									

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
R - B	2x4	DRY No.2	SPF
J - H	2x4	DRY No.2	SPF
O - L	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	5.0	8.0	1.75	3.00
C TMVW-t	MT20	3.0	4.0	1.50	1.75
D TTWW-m	MT20	5.0	8.0	2.50	2.25
E TMW+w	MT20	2.0	4.0		
F TTWW-m	MT20	5.0	8.0	2.50	2.25
G TMVW-t	MT20	3.0	4.0	1.50	1.75
H TMVW-t	MT20	5.0	8.0	1.75	3.00
J BMV1-t	MT20	6.0	6.0	Edge	2.50
K BMWW-t	MT20	5.0	6.0	2.25	1.50
L BS-t	MT20	4.0	8.0		
M BMWW-t	MT20	3.0	5.0		
N BMWW-t	MT20	3.0	6.0		
O BS-t	MT20	3.0	6.0		
P BMWW-t	MT20	3.0	5.0		
Q BMWW-t	MT20	5.0	6.0	2.25	1.50
R BMV1-t	MT20	6.0	6.0	3.50	

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

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	2842	2842	5-8	5-8
R	2842	2842	5-8	5-8
J	2842	2842	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1232	0	SNOW LIVE PERM. LIVE WIND DEAD SOIL
R	1232	0	343
J	1232	0	343

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.06 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 38	-124.4	-124.4 0.16 (1)	10.00	Q-C	-239 / 131	0.06 (1)
B-C	-3939 / 0	-124.4	-124.4 0.90 (1)	2.66	C-P	-711 / 0	0.70 (1)
C-D	-3352 / 0	-124.4	-124.4 0.78 (1)	3.03	P-D	0 / 598	0.13 (1)
D-E	-3219 / 0	-124.4	-124.4 0.41 (1)	3.55	D-N	0 / 467	0.11 (1)
E-F	-3219 / 0	-124.4	-124.4 0.41 (1)	3.55	N-E	-850 / 0	0.58 (1)
F-G	-3352 / 0	-124.4	-124.4 0.78 (1)	3.03	N-F	0 / 467	0.11 (1)
G-H	-3939 / 0	-124.4	-124.4 0.90 (1)	2.66	M-F	0 / 598	0.13 (1)
H-I	0 / 38	-124.4	-124.4 0.16 (1)	10.00	M-G	-711 / 0	0.70 (1)
R-B	-2742 / 0	0.0	0.0 0.28 (1)	5.20	K-G	-239 / 131	0.08 (1)
J-H	-2742 / 0	0.0	0.0 0.28 (1)	5.20	B-Q	0 / 3592	0.81 (1)
					K-H	0 / 3592	0.81 (1)
R-Q	0 / 0	-39.2	-39.2 0.27 (3)	10.00			
Q-P	0 / 3557	-39.2	-39.2 0.73 (1)	10.00			
P-O	0 / 2970	-39.2	-39.2 0.60 (1)	10.00			
O-N	0 / 2970	-39.2	-39.2 0.60 (1)	10.00			
N-M	0 / 2970	-39.2	-39.2 0.60 (1)	10.00			
M-L	0 / 3557	-39.2	-39.2 0.73 (1)	10.00			
L-K	0 / 3557	-39.2	-39.2 0.73 (1)	10.00			
K-J	0 / 0	-39.2	-39.2 0.27 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 34.8	PSF
	DL = 8.0	PSF
BOT CH.	LL = 10.5	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 60.6	PSF

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.19")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.32")

CSI: TC=0.90/1.00 (G-H:1) , BC=0.73/1.00 (K-M:1) ,
WB=0.81/1.00 (H-K:1) , SSI=0.32/1.00 (G-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

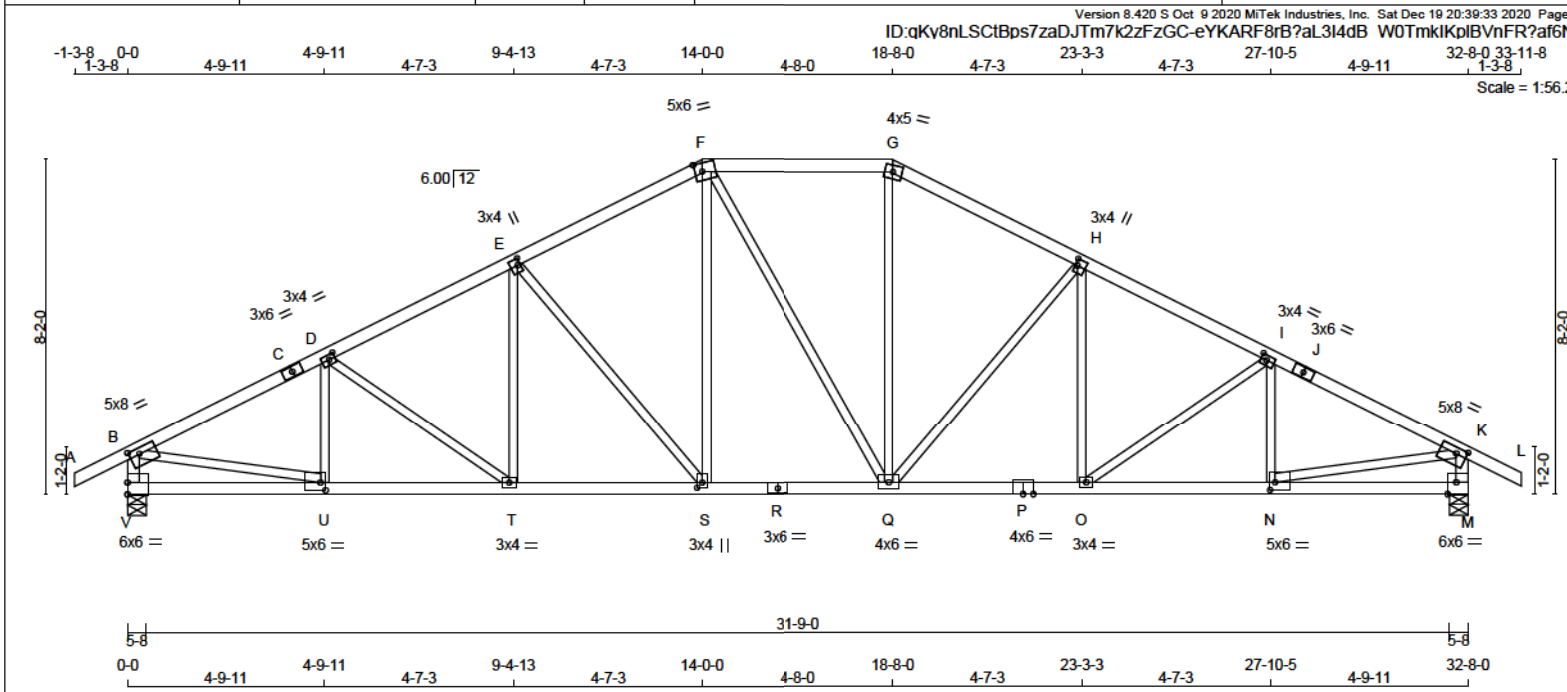


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
V - B	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
V - R	2x4	DRY No.2	SPF
R - P	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	5.0	8.0	1.75	3.00
C TS-t	MT20	3.0	6.0		
D TMVW-t	MT20	3.0	4.0	1.50	1.75
E TMVW-t	MT20	3.0	4.0	2.00	0.75
F TTWW-m	MT20	5.0	6.0	2.50	2.25
G TTWW-m	MT20	4.0	5.0		
H TMVW-t	MT20	3.0	4.0	2.00	0.75
I TMVW-t	MT20	3.0	4.0	1.50	1.75
J TS-t	MT20	3.0	6.0		
K TMVW-t	MT20	5.0	8.0	1.75	3.00
M BMV1-t	MT20	6.0	6.0	Edge 2.50	
N BMVW-t	MT20	5.0	6.0	2.25	1.50
O BMVW-t	MT20	3.0	4.0		
P BS-t	MT20	4.0	6.0		
Q BMVW-t	MT20	4.0	6.0		
R BS-t	MT20	3.0	6.0		
S BMVW-t	MT20	3.0	4.0	1.50	1.50
T BMVW-t	MT20	3.0	4.0		
U BMVW-t	MT20	5.0	6.0	2.25	1.50
V BMV1-t	MT20	6.0	6.0	3.50	

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

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	2842	2842	0	5-8
V	2842	2842	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1232	0	343
V	2098	1232	0
M	2098	1232	0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

CHORDS			WEBS		
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED FORCE (LBS)	MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO			FROM		TO
A-B	0 / 38	-124.4	-124.4	0.16	(1)
B-C	-3835 / 0	-124.4	-124.4	0.56	(1)
C-D	-3835 / 0	-124.4	-124.4	0.56	(1)
D-E	-3861 / 0	-124.4	-124.4	0.46	(1)
E-F	-3064 / 0	-124.4	-124.4	0.43	(1)
F-G	-2729 / 0	-124.4	-124.4	0.44	(1)
G-H	-3066 / 0	-124.4	-124.4	0.43	(1)
H-I	-3860 / 0	-124.4	-124.4	0.46	(1)
I-J	-3835 / 0	-124.4	-124.4	0.56	(1)
J-K	-3835 / 0	-124.4	-124.4	0.56	(1)
K-L	0 / 38	-124.4	-124.4	0.16	(1)
V-B	-2758 / 0	0.0	0.0	0.28	(1)
M-K	-2759 / 0	0.0	0.0	0.28	(1)
V-U	0 / 0	-39.2	-39.2	0.15	(3)
U-T	0 / 3450	-39.2	-39.2	0.83	(1)
T-S	0 / 3275	-39.2	-39.2	0.81	(1)
S-R	0 / 2728	-39.2	-39.2	0.54	(1)
R-Q	0 / 2728	-39.2	-39.2	0.54	(1)
Q-P	0 / 3274	-39.2	-39.2	0.83	(1)
P-O	0 / 3274	-39.2	-39.2	0.83	(1)
O-N	0 / 3450	-39.2	-39.2	0.83	(1)
N-M	0 / 0	-39.2	-39.2	0.15	(3)

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018, ABC 2019
- 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 (1.00")
CALCULATED VERT. DEFL.(LL)= L/999 (0.18")
ALLOWABLE DEFL.(TL)= L/360 (1.00")
CALCULATED VERT. DEFL.(TL)= L/999 (0.31")

CSI: TC=0.56/1.00 (I-K:1), BC=0.63/1.00 (T-U:1), WB=0.89/1.00 (E-S:1), SSI=0.24/1.00 (B-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.80)
JSI METAL = 0.83 (R) (INPUT = 1.00)

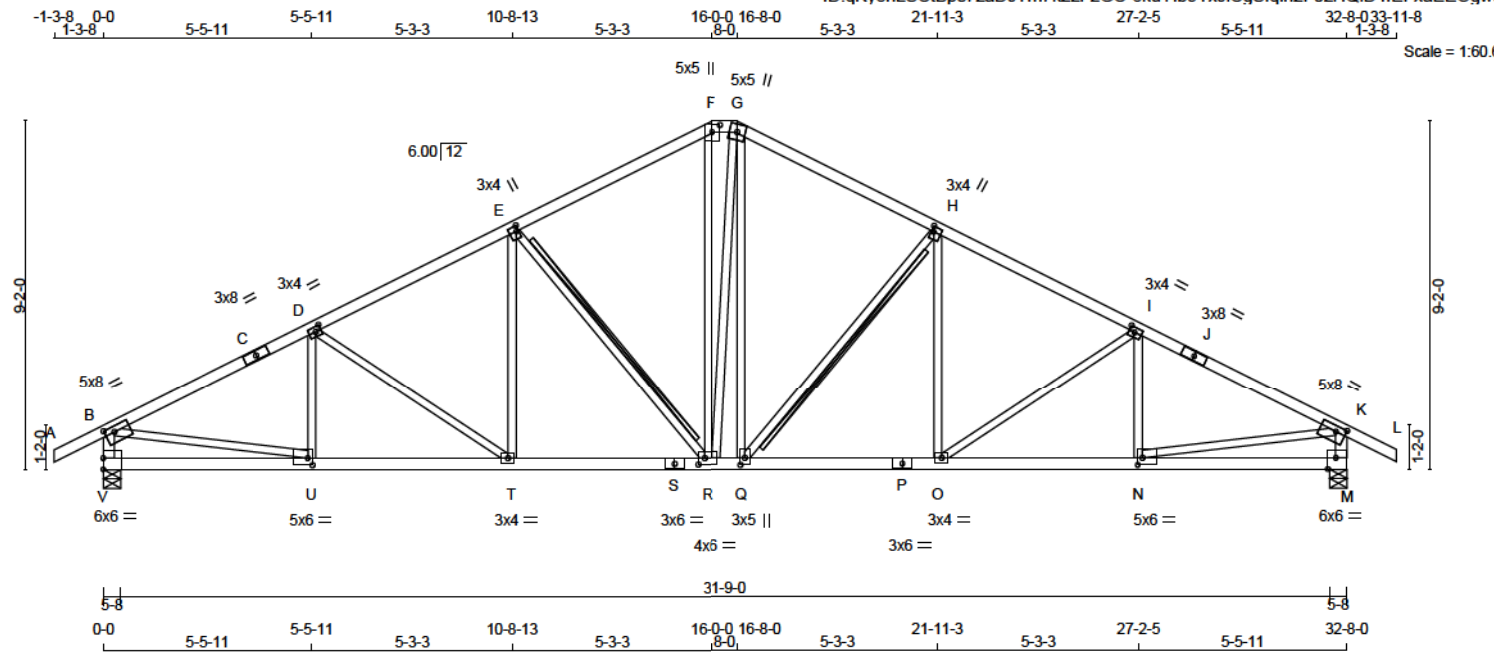


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 151 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
J - L	2x4	DRY No.2	SPF
V - B	2x4	DRY No.2	SPF
M - K	2x4	DRY No.2	SPF
V - S	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - M	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW-t	MT20	5.0	8.0	1.75	3.00
C	TS-t	MT20	3.0	8.0		
D	TMWW-t	MT20	3.0	4.0	1.50	1.75
E	TMWW-t	MT20	3.0	4.0	1.75	0.75
F	TTW+p	MT20	5.0	5.0	2.25	2.50
G	TTWW+m	MT20	5.0	5.0		
H	TMWW-t	MT20	3.0	4.0	1.75	0.75
I	TMWW-t	MT20	3.0	4.0	1.50	1.75
J	TS-t	MT20	3.0	8.0		
K	TMVW-t	MT20	5.0	8.0	1.75	3.00
N	BMVW-t	MT20	6.0	6.0	Edge 2.50	
O	BMWW-t	MT20	5.0	6.0	2.25	1.50
P	BS-t	MT20	3.0	4.0		
Q	BMWW-t	MT20	3.0	5.0	2.25	1.50
R	BMWW-t	MT20	4.0	6.0	2.00	2.00
S	BS-t	MT20	3.0	4.0		
T	BMWW-t	MT20	3.0	4.0		
U	BMWW-t	MT20	5.0	6.0	2.25	1.50
V	BMVW-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQD BRG
JT VERT	2842	0	0	5-8
M VERT	2842	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1232	0	343 / 0
V COMBINED	1232	0	343 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT E-R, H-Q
FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
A-B	0 / 38	-124.4 -124.4 0.16 (1)	10.00	U-D	-319 / 85	0.08 (1)	
B-C	-3890 / 0	-124.4 -124.4 0.71 (1)	2.97	D-T	-418 / 0	0.30 (1)	
C-D	-3890 / 0	-124.4 -124.4 0.71 (1)	2.97	T-E	0 / 446	0.10 (2)	
D-E	-3531 / 0	-124.4 -124.4 0.57 (1)	3.28	E-R	-1054 / 0	0.52 (1)	
E-F	-2809 / 0	-124.4 -124.4 0.52 (1)	3.66	R-F	0 / 941	0.21 (1)	
F-G	-2475 / 0	-124.4 -124.4 0.07 (1)	4.35	R-G	0 / 102	0.02 (1)	
G-H	-2798 / 0	-124.4 -124.4 0.52 (1)	3.67	Q-G	0 / 834	0.19 (1)	
H-I	-3535 / 0	-124.4 -124.4 0.57 (1)	3.28	Q-H	-1075 / 0	0.53 (1)	
I-J	-3888 / 0	-124.4 -124.4 0.71 (1)	2.97	O-H	0 / 467	0.11 (2)	
J-K	-3888 / 0	-124.4 -124.4 0.71 (1)	2.97	O-I	-412 / 0	0.30 (1)	
K-L	0 / 38	-124.4 -124.4 0.16 (1)	10.00	N-I	-325 / 62	0.08 (1)	
V-B	-2750 / 0	0.0 0.0 0.28 (1)	5.19	B-U	0 / 3548	0.80 (1)	
M-K	-2748 / 0	0.0 0.0 0.28 (1)	5.20	N-K	0 / 3549	0.80 (1)	
V-U	0 / 0	-39.2 -39.2 0.20 (3)	10.00				
U-T	0 / 3503	-39.2 -39.2 0.68 (1)	10.00				
T-S	0 / 3158	-39.2 -39.2 0.67 (1)	10.00				
S-R	0 / 3158	-39.2 -39.2 0.67 (1)	10.00				
R-Q	0 / 2466	-39.2 -39.2 0.56 (1)	10.00				
Q-P	0 / 3162	-39.2 -39.2 0.62 (1)	10.00				
P-O	0 / 3162	-39.2 -39.2 0.62 (1)	10.00				
O-N	0 / 3502	-39.2 -39.2 0.68 (1)	10.00				
N-M	0 / 0	-39.2 -39.2 0.20 (3)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

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- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.34")

CSI: TC=0.71/1.00 (B-D-1) , BC=0.68/1.00 (N-O-1) ,
WB=0.80/1.00 (B-U-1) , SSI=0.28/1.00 (B-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (Q) (INPUT = 0.90)
JSI METAL = 0.98 (S) (INPUT = 1.00)



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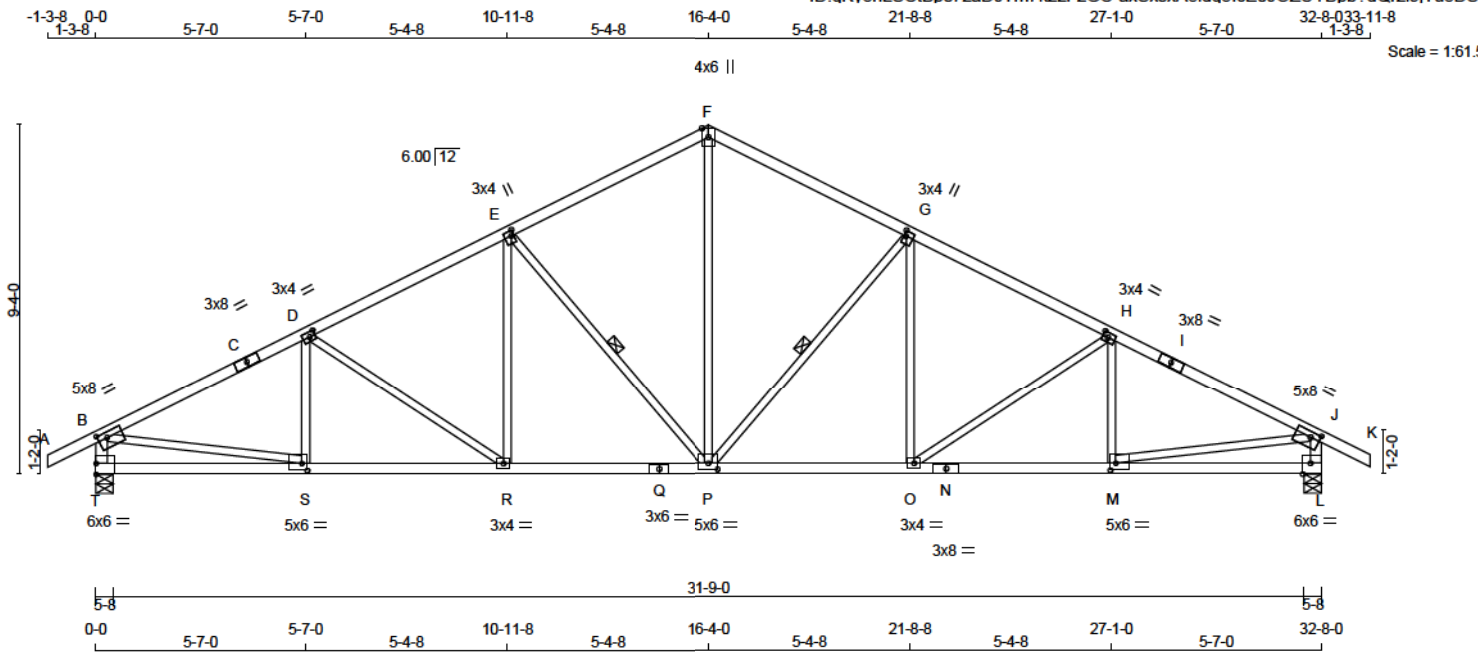
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Sat Dec 19 20:39:35 2020 Page 1

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LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY No.2	SPF
F - I	2x4	DRY No.2	SPF
I - K	2x4	DRY No.2	SPF
T - B	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
T - Q	2x4	DRY No.2	SPF
Q - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW-t	MT20	5.0	8.0	1.75	3.00
C TS-t	MT20	3.0	8.0		
D TMVW-t	MT20	3.0	4.0	1.50	1.75
E TMVW-t	MT20	3.0	4.0	1.75	0.75
F TTW+p	MT20	4.0	6.0	Edge	
G TMVW-t	MT20	3.0	4.0	1.75	0.75
H TMVW-t	MT20	3.0	4.0	1.50	1.75
I TS-t	MT20	3.0	8.0		
J TMVW-t	MT20	5.0	8.0	1.75	3.00
L BMV1-t	MT20	6.0	6.0	Edge	2.50
M BMVW-t	MT20	5.0	6.0	2.25	1.75
N BS-t	MT20	3.0	8.0		
O BMVW-t	MT20	3.0	4.0		
P BMVW-t	MT20	5.0	6.0	2.00	3.00
Q BS-t	MT20	3.0	8.0		
R BMVW-t	MT20	3.0	4.0		
S BMVW-t	MT20	5.0	6.0	2.25	1.75
T BMV1-t	MT20	6.0	6.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQD BRG IN-SX
JT VERT	2842	0	0	5-8
T	2842	0	0	5-8
L	2842	0	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	2098	1232 / 0	343 / 0
T	2098	1232 / 0	343 / 0
L	2098	1232 / 0	343 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.94 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF G-P, E-P. DBS = 20-0-0. CBF = 137 LBS.

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO					FR-TO		
A-B	0 / 38	-124.4	-124.4 0.16 (1)	10.00	P-F	0 / 1889	0.43 (1)
B-C	-3896 / 0	-124.4	-124.4 0.74 (1)	2.94	P-G	-1093 / 0	0.51 (1)
C-D	-3896 / 0	-124.4	-124.4 0.74 (1)	2.94	O-G	0 / 473	0.11 (2)
D-E	-3508 / 0	-124.4	-124.4 0.59 (1)	3.27	O-H	-449 / 0	0.34 (1)
E-F	-2746 / 0	-124.4	-124.4 0.54 (1)	3.67	M-H	-306 / 76	0.07 (1)
F-G	-2746 / 0	-124.4	-124.4 0.54 (1)	3.67	E-P	-1093 / 0	0.51 (1)
G-H	-3508 / 0	-124.4	-124.4 0.59 (1)	3.27	R-E	0 / 473	0.11 (2)
H-I	-3896 / 0	-124.4	-124.4 0.74 (1)	2.94	D-R	-449 / 0	0.34 (1)
I-J	-3896 / 0	-124.4	-124.4 0.74 (1)	2.94	S-D	-306 / 76	0.07 (1)
J-K	0 / 38	-124.4	-124.4 0.16 (1)	10.00	B-S	0 / 3551	0.80 (1)
T-B	-2746 / 0	0.0	0.0 0.28 (1)	5.20	M-J	0 / 3551	0.80 (1)
L-J	-2746 / 0	0.0	0.0 0.28 (1)	5.20			
T-S	0 / 0	-39.2	-39.2 0.21 (3)	10.00			
S-R	0 / 3509	-39.2	-39.2 0.68 (1)	10.00			
R-Q	0 / 3138	-39.2	-39.2 0.64 (1)	10.00			
Q-P	0 / 3138	-39.2	-39.2 0.64 (1)	10.00			
P-O	0 / 3138	-39.2	-39.2 0.64 (1)	10.00			
O-N	0 / 3509	-39.2	-39.2 0.68 (1)	10.00			
N-M	0 / 3509	-39.2	-39.2 0.68 (1)	10.00			
M-L	0 / 0	-39.2	-39.2 0.21 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL (LL) = L/360 (1.09")
CALCULATED VERT. DEFL (LL) = L/999 (0.20")
ALLOWABLE DEFL (TL) = L/360 (1.09")
CALCULATED VERT. DEFL (TL) = L/999 (0.34")

CSI: TC=0.74/1.00 (B-D-1), BC=0.68/1.00 (M-O-1), WB=0.80/1.00 (J-M-1), SSI=0.29/1.00 (B-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



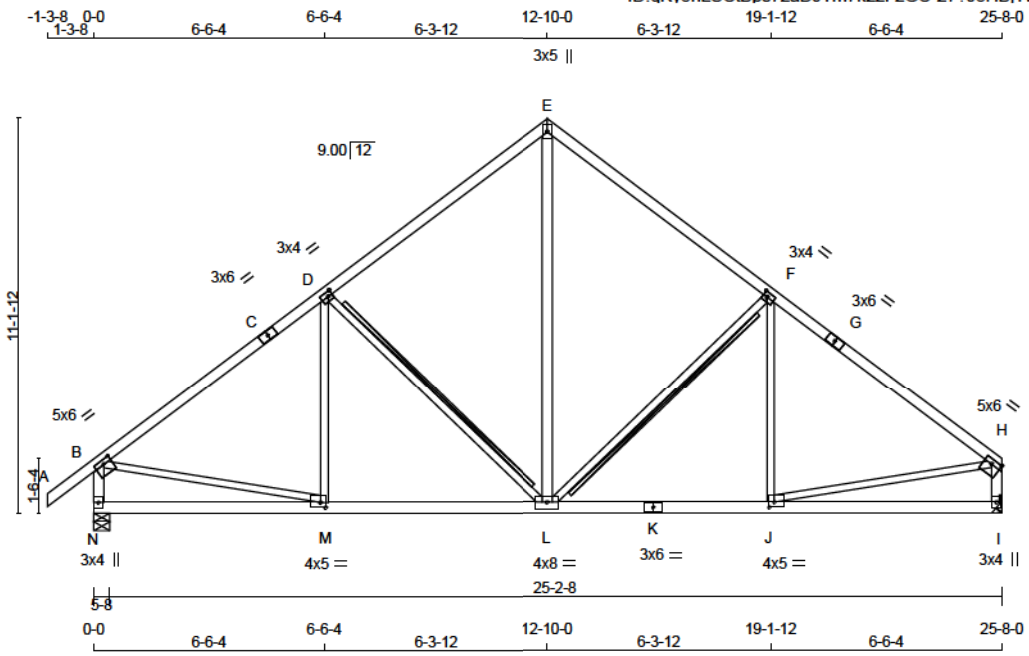
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



Version 8.420 S Oct 9 2020 MTek Industries, Inc. Sat Dec 19 20:39:36 2020 Page 1



Scale = 1:65.1

TOTAL WEIGHT = 116 lb

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)									
JT	TYPE	SIZE	PLATES	W	LEN	Y	X		
B	TMVW-t	MT20		5.0	6.0	1.50	2.75		
C	TS-t	MT20		3.0	6.0				
D	TMVW-t	MT20		3.0	4.0	1.50	1.50		
E	TTW-t	MT20		3.0	5.0				
F	TMVW-t	MT20		3.0	4.0	1.50	1.50		
G	TS-t	MT20		3.0	6.0				
H	TMVW-t	MT20		5.0	6.0	1.50	Edge		
I	BMV-t	MT20		3.0	4.0				
J	BMVW-t	MT20		4.0	5.0	1.75	1.75		
K	BS-t	MT20		3.0	6.0				
L	BMVW-t	MT20		4.0	8.0				
M	BMVW-t	MT20		4.0	5.0	1.75	1.75		
N	BMV-t	MT20		3.0	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							
FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
N	2272	0	2272	0	0	5-8	3-14
I	2101	0	2101	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT I. MINIMUM BEARING LENGTH AT JOINT I = 3-5.

UNFACTORED REACTIONS							
1ST CASE		MAX/MIN COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
N	1674	989 / 0	270 / 0	0 / 0	0 / 0	415 / 0	0 / 0
I	1556	893 / 0	270 / 0	0 / 0	0 / 0	393 / 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 = 3.52 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT F-L, D-L

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED (LC1) (LC)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED (LC1) (LC)
FR-TO				FR-TO			
A-B	0 / 51	-124.4	-124.4 0.17 (1)	10.00	L-E	0 / 1297	0.21 (1)
B-C	-2202 / 0	-124.4	-124.4 0.84 (1)	3.52	L-F	-766 / 0	0.45 (1)
C-D	-2202 / 0	-124.4	-124.4 0.84 (1)	3.52	J-F	-48 / 223	0.06 (3)
D-E	-1630 / 0	-124.4	-124.4 0.74 (1)	4.14	D-L	-766 / 0	0.45 (1)
E-F	-1630 / 0	-124.4	-124.4 0.74 (1)	4.14	M-D	-48 / 223	0.06 (3)
F-G	-2202 / 0	-124.4	-124.4 0.84 (1)	3.52	B-M	0 / 1838	0.41 (1)
G-H	-2202 / 0	-124.4	-124.4 0.84 (1)	3.52	J-H	0 / 1838	0.41 (1)
N-B	-2108 / 0	0.0	0.0 0.23 (1)	5.77			
I-H	-1997 / 0	0.0	0.0 0.21 (1)	5.97			
N-M	0 / 0	-39.2	-39.2 0.32 (3)	10.00			
M-L	0 / 1808	-39.2	-39.2 0.53 (2)	10.00			
L-K	0 / 1808	-39.2	-39.2 0.53 (2)	10.00			
K-J	0 / 1808	-39.2	-39.2 0.53 (2)	10.00			
J-I	0 / 0	-39.2	-39.2 0.32 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 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, ABC 2019
- 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 (0.88")
CALCULATED VERT. DEFL.(LL) = L/999 (0.08")
ALLOWABLE DEFL.(TL) = L/360 (0.88")
CALCULATED VERT. DEFL.(TL) = L/999 (0.14")

CSI: TC=0.84/1.00 (F-H:1), BC=0.53/1.00 (J-L:2), WB=0.45/1.00 (F-L:1), SS=0.31/1.00 (F-H:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (J) (INPUT = 0.90)
JSI METAL = 0.87 (K) (INPUT = 1.00)

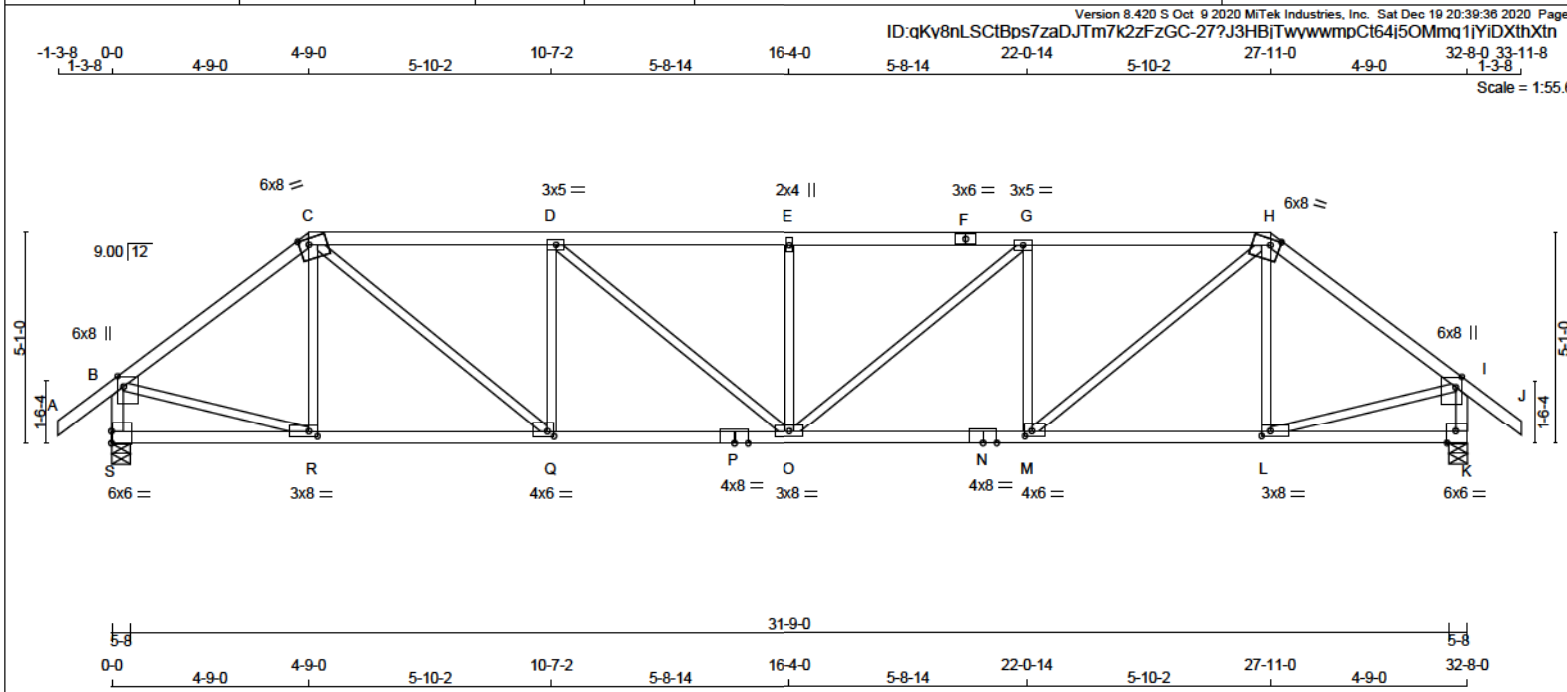


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - F	2x4	DRY 2100F 1.8E	SPF
F - H	2x4	DRY 2100F 1.8E	SPF
H - J	2x4	DRY No.2	SPF
S - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
S - P	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT
DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	8.0	3.00	1.75
C	TTWW-m	MT20	6.0	8.0	1.75	2.75
D	TMWW-t	MT20	3.0	5.0		
E	TMW+w	MT20	2.0	4.0		
F	TS-t	MT20	3.0	6.0		
G	TMWW-t	MT20	3.0	5.0		
H	TTWW-m	MT20	6.0	8.0	1.75	2.75
I	TMVW+p	MT20	6.0	8.0	3.00	1.75
K	BMV1-t	MT20	6.0	6.0	Edge 2.50	
L	BMWW-t	MT20	3.0	8.0	1.50	2.50
M	BMWW-t	MT20	4.0	6.0	1.50	2.00
N	BS-t	MT20	4.0	8.0		
O	BMWWWW-t	MT20	3.0	8.0		
P	BS-t	MT20	4.0	8.0		
Q	BMWW-t	MT20	4.0	6.0	1.50	2.00
R	BMWW-t	MT20	3.0	8.0	1.50	2.50
S	BMV1-t	MT20	6.0	6.0	3.50	

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



READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT VERT	2845	2845	5-8	5-8
S K	2845	2845	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1233	0	SNOW LIVE PERM. LIVE WIND DEAD SOIL
S K	1233	0	343 0 0 0 0 0 522 0 0 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.36 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FORCE (LBS)	MAX. FORCE (LC)
FR-TO		FROM TO	LENGTH	FR-TO			
A-B	0 / 51	-124.4 -124.4	0.17 (1)	10.00	R-C	-333 / 48	0.13 (1)
B-C	-2888 / 0	-124.4 -124.4	0.73 (1)	3.36	C-Q	0 / 2326	0.52 (1)
C-D	-4100 / 0	-124.4 -124.4	0.56 (1)	3.79	Q-D	-1250 / 0	0.48 (1)
D-E	-4631 / 0	-124.4 -124.4	0.60 (1)	3.56	D-O	0 / 691	0.16 (1)
E-F	-4631 / 0	-124.4 -124.4	0.60 (1)	3.56	O-E	-860 / 0	0.25 (1)
F-G	-4631 / 0	-124.4 -124.4	0.60 (1)	3.56	O-G	0 / 691	0.16 (1)
G-H	-4100 / 0	-124.4 -124.4	0.56 (1)	3.79	M-G	-1250 / 0	0.48 (1)
H-I	-2888 / 0	-124.4 -124.4	0.73 (1)	3.36	M-H	0 / 2326	0.52 (1)
I-J	0 / 51	-124.4 -124.4	0.17 (1)	10.00	L-H	-333 / 48	0.13 (1)
S-B	-2772 / 0	0.0	0.0 0.29 (1)	5.17	B-R	0 / 2375	0.53 (1)
K-I	-2772 / 0	0.0	0.0 0.29 (1)	5.17	L-I	0 / 2375	0.53 (1)
S-R	0 / 0	-39.2	-39.2 0.21 (3)	10.00			
R-Q	0 / 2299	-39.2	-39.2 0.52 (1)	10.00			
Q-P	0 / 4100	-39.2	-39.2 0.78 (1)	10.00			
P-O	0 / 4100	-39.2	-39.2 0.78 (1)	10.00			
O-N	0 / 4100	-39.2	-39.2 0.78 (1)	10.00			
N-M	0 / 4100	-39.2	-39.2 0.78 (1)	10.00			
M-L	0 / 2299	-39.2	-39.2 0.52 (1)	10.00			
L-K	0 / 0	-39.2	-39.2 0.21 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.23")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.38")

CSI: TC=0.73/1.00 (H-I-1), BC=0.78/1.00 (M-O-1),
WB=0.53/1.00 (I-L-1), SSI=0.34/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

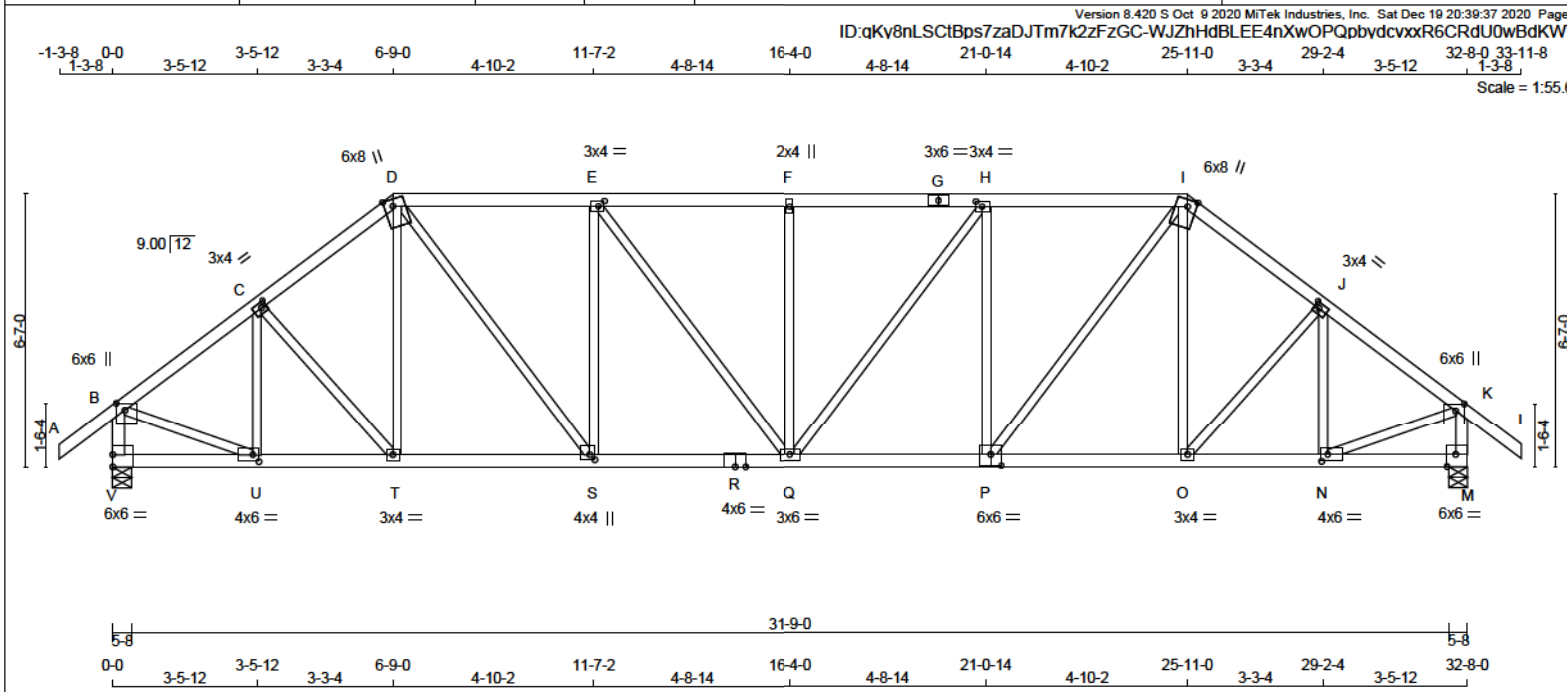
JSI GRIP= 0.89 (D) (INPUT = 0.90)
JSI METAL= 0.91 (P) (INPUT = 1.00)



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			





LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2	SPF
D - G	2x4	DRY	No.2	SPF
G - I	2x4	DRY	No.2	SPF
I - L	2x4	DRY	No.2	SPF
V - B	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
V - R	2x4	DRY	No.2	SPF
R - P	2x4	DRY	No.2	SPF
P - M	2x4	DRY	No.2	SPF
ALL WEBS	2x3	DRY	No.2	SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMVW+p	MT20	6.0	6.0	2.00 2.50
C	TMVW-t	MT20	3.0	4.0	1.50 1.50
D	TTVW+m	MT20	6.0	8.0	2.00 2.50
E	TMVW-t	MT20	3.0	4.0	1.50 1.75
F	TMVW-w	MT20	2.0	4.0	
G	TS-t	MT20	3.0	6.0	
H	TMVW-t	MT20	3.0	4.0	1.50 1.75
I	TTVW+m	MT20	6.0	8.0	2.00 2.50
J	TMVW-t	MT20	3.0	4.0	1.50 1.50
K	TMVW+p	MT20	6.0	6.0	2.00 2.50
M	BMV1-t	MT20	6.0	6.0	Edge 2.50
N	BMVW-t	MT20	4.0	6.0	2.00 1.75
O	BMVW-t	MT20	3.0	4.0	
P	BSWW-t	MT20	6.0	6.0	3.25 3.00
Q	BMVWVW-t	MT20	3.0	6.0	
R	BS-t	MT20	4.0	6.0	
S	BMVWVW-t	MT20	4.0	4.0	1.50 1.50
T	BMVW-t	MT20	3.0	4.0	
U	BMVW-t	MT20	4.0	6.0	2.00 1.75
V	BMV1-t	MT20	6.0	6.0	3.50

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

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	2845	0	5-8
V	2845	0	5-8
M	2845	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1233	0	343
V	2098	1233	0
M	2098	1233	0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.14 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 51	-124.4	-124.4	0.17 (1)	U-C	-839 / 0	0.17 (1)
B-C	-2762 / 0	-124.4	-124.4	0.33 (1)	C-T	0 / 93	0.02 (1)
C-D	-2901 / 0	-124.4	-124.4	0.33 (1)	T-D	0 / 167	0.04 (3)
D-E	-3234 / 0	-124.4	-124.4	0.62 (1)	D-S	0 / 1540	0.35 (1)
E-F	-3510 / 0	-124.4	-124.4	0.64 (1)	S-E	-1033 / 0	0.74 (1)
F-G	-3510 / 0	-124.4	-124.4	0.64 (1)	E-Q	0 / 457	0.10 (1)
G-H	-3510 / 0	-124.4	-124.4	0.64 (1)	Q-F	-542 / 0	0.39 (1)
H-I	-3224 / 0	-124.4	-124.4	0.62 (1)	Q-H	0 / 474	0.11 (1)
I-J	-2905 / 0	-124.4	-124.4	0.33 (1)	P-H	-1047 / 0	0.75 (1)
J-K	-2760 / 0	-124.4	-124.4	0.33 (1)	P-I	0 / 1518	0.34 (1)
K-L	0 / 51	-124.4	-124.4	0.17 (1)	O-I	0 / 195	0.05 (3)
V-B	-2781 / 0	0.0	0.0	0.29 (1)	O-J	0 / 99	0.02 (1)
M-K	-2780 / 0	0.0	0.0	0.29 (1)	N-J	-847 / 0	0.17 (1)
V-U	0 / 0	-39.2	-39.2	0.08 (3)	B-U	0 / 2358	0.53 (1)
U-T	0 / 2230	-39.2	-39.2	0.44 (1)	N-K	0 / 2357	0.53 (1)
T-S	0 / 2264	-39.2	-39.2	0.46 (1)			
S-R	0 / 3235	-39.2	-39.2	0.61 (1)			
R-Q	0 / 3235	-39.2	-39.2	0.61 (1)			
Q-P	0 / 3224	-39.2	-39.2	0.63 (1)			
P-O	0 / 2297	-39.2	-39.2	0.48 (1)			
O-N	0 / 2229	-39.2	-39.2	0.47 (1)			
N-M	0 / 0	-39.2	-39.2	0.09 (3)			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH. LL = 34.8 PSF
DL = 8.0 PSF

BOT CH. LL = 10.5 PSF
DL = 7.3 PSF

TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:

- PART 9 OF CBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14
- TPIC 2014

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

ALLOWABLE DEFL.(LL)= L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.17")
ALLOWABLE DEFL.(TL)= L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.28")

CSI: TC=0.64/1.00 (F-H:1), BC=0.63/1.00 (P-Q:1), WB=0.75/1.00 (H-P:1), SSI=0.28/1.00 (H-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)

MAX MIN MAX MIN MAX MIN

MT20 650 371 1747 768 1987 1873

PLATE PLACEMENT TOL = 0.250 inches

PLATE ROTATION TOL = 5.0 Deg.

JSI GRIP= 0.90 (C) (INPUT = 0.90)
JSI METAL = 0.75 (R) (INPUT = 1.00)

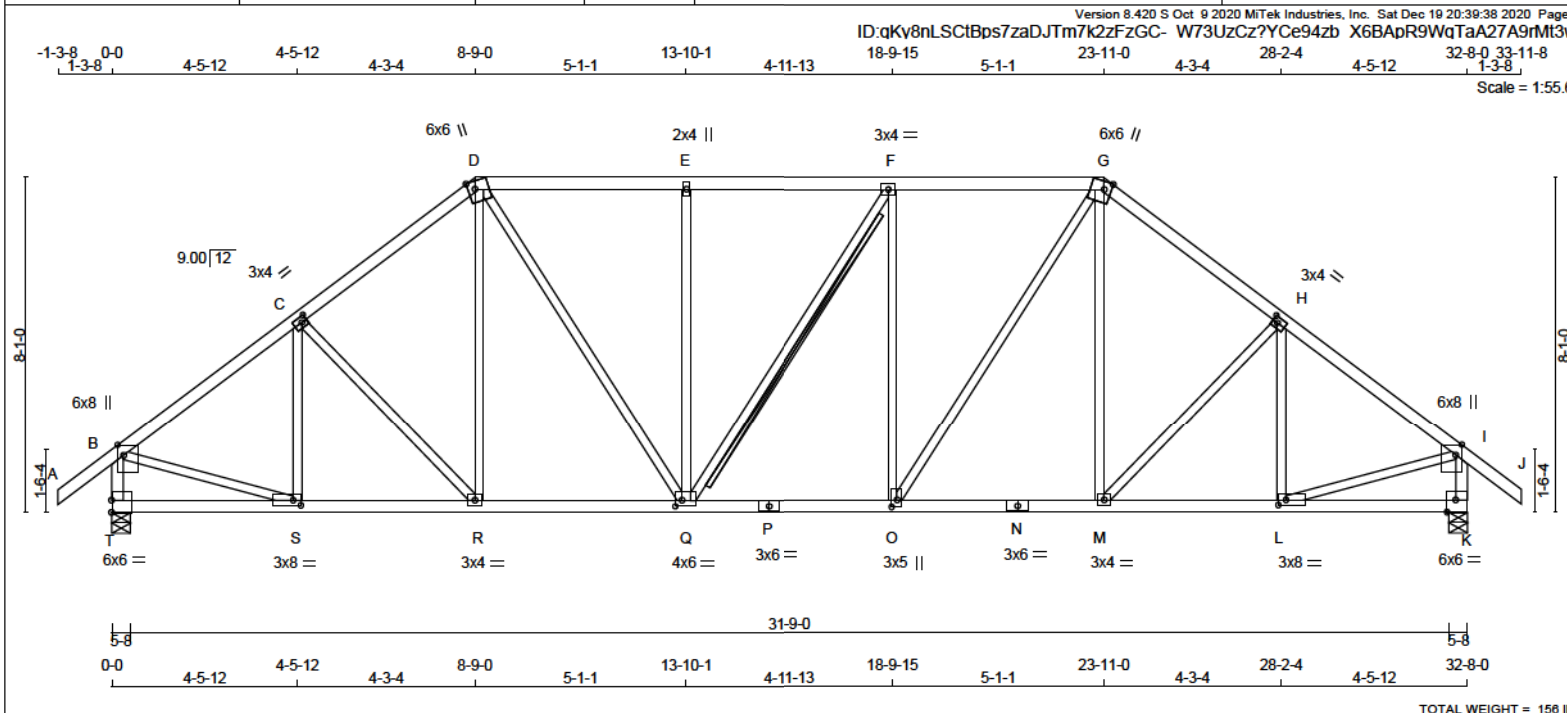


These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - G	2x4	DRY No.2	SPF
G - J	2x4	DRY No.2	SPF
T - B	2x4	DRY No.2	SPF
K - I	2x4	DRY No.2	SPF
T - P	2x4	DRY No.2	SPF
P - N	2x4	DRY No.2	SPF
N - K	2x4	DRY No.2	SPF
ALL WEBS	2x3	DRY No.2	SPF

EXCEPT

DRY: SEASONED LUMBER.

PLATES (Table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	6.0	8.0	3.00	1.75
C TMVW-t	MT20	3.0	4.0	1.50	1.50
D TTWW+m	MT20	6.0	8.0	Edge 2.00	
E TMVW+w	MT20	2.0	4.0		
F TMVW-t	MT20	3.0	4.0		
G TTWW+m	MT20	6.0	8.0	Edge 2.00	
H TMVW-t	MT20	3.0	4.0	1.50	1.50
I TMVW+p	MT20	6.0	8.0	3.00	1.75
K BMV-t	MT20	6.0	8.0	Edge 2.50	
L BMVW-t	MT20	3.0	8.0	1.50	2.25
M BMVW-t	MT20	3.0	4.0		
N BS-t	MT20	3.0	6.0		
O BMVW+t	MT20	3.0	5.0	2.00	1.50
P BS-t	MT20	3.0	6.0		
Q BMVW-t	MT20	4.0	6.0	1.75	2.00
R BMVW-t	MT20	3.0	4.0		
S BMVW-t	MT20	3.0	8.0	1.50	2.25
T BMV-t	MT20	6.0	8.0	3.50	

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

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT DOWN	REQD BRG
JT VERT	2845	2845	0	5-8
T	2845	2845	0	5-8
K	2845	2845	0	5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	1233	0	343
T	1233	0	343
K	1233	0	343

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.72 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

2x4 DRY SPF No.2 T-BRACE AT F-Q

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

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO			
A-B	0 / 51	-124.4	-124.4 0.17 (1)	10.00	S-C	-443 / 0	0.18 (1)
B-C	-2891 / 0	-124.4	-124.4 0.42 (1)	3.74	C-R	-191 / 0	0.14 (1)
C-D	-2807 / 0	-124.4	-124.4 0.41 (1)	3.80	R-D	0 / 348	0.08 (2)
D-E	-2784 / 0	-124.4	-124.4 0.46 (1)	3.73	D-Q	0 / 1040	0.23 (1)
E-F	-2784 / 0	-124.4	-124.4 0.43 (1)	3.77	Q-E	-674 / 0	0.85 (1)
F-G	-2786 / 0	-124.4	-124.4 0.46 (1)	3.72	Q-F	-4 / 0	0.00 (1)
G-H	-2806 / 0	-124.4	-124.4 0.41 (1)	3.80	O-F	-675 / 0	0.85 (1)
H-I	-2891 / 0	-124.4	-124.4 0.42 (1)	3.74	O-G	0 / 1045	0.24 (1)
I-J	0 / 51	-124.4	-124.4 0.17 (1)	10.00	M-G	0 / 348	0.08 (2)
T-B	-2768 / 0	0.0	0.0 0.29 (1)	5.17	M-H	-192 / 0	0.14 (1)
K-I	-2768 / 0	0.0	0.0 0.29 (1)	5.17	L-H	-442 / 0	0.15 (1)
					B-S	0 / 2424	0.55 (1)
					L-I	0 / 2424	0.55 (1)
T-S	0 / 0	-39.2	-39.2 0.13 (3)	10.00			
S-R	0 / 2342	-39.2	-39.2 0.48 (1)	10.00			
R-Q	0 / 2214	-39.2	-39.2 0.46 (1)	10.00			
Q-P	0 / 2786	-39.2	-39.2 0.55 (1)	10.00			
P-O	0 / 2786	-39.2	-39.2 0.55 (1)	10.00			
O-N	0 / 2214	-39.2	-39.2 0.46 (1)	10.00			
N-M	0 / 2214	-39.2	-39.2 0.46 (1)	10.00			
M-L	0 / 2342	-39.2	-39.2 0.47 (1)	10.00			
L-K	0 / 0	-39.2	-39.2 0.13 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (1.09")
CALCULATED VERT. DEFL.(LL) = L/999 (0.13")
ALLOWABLE DEFL.(TL) = L/360 (1.09")
CALCULATED VERT. DEFL.(TL) = L/999 (0.22")

CSI: TC=0.46/1.00 (D-E-1), BC=0.55/1.00 (O-Q-1), WB=0.85/1.00 (F-O-1), SSI=0.29/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



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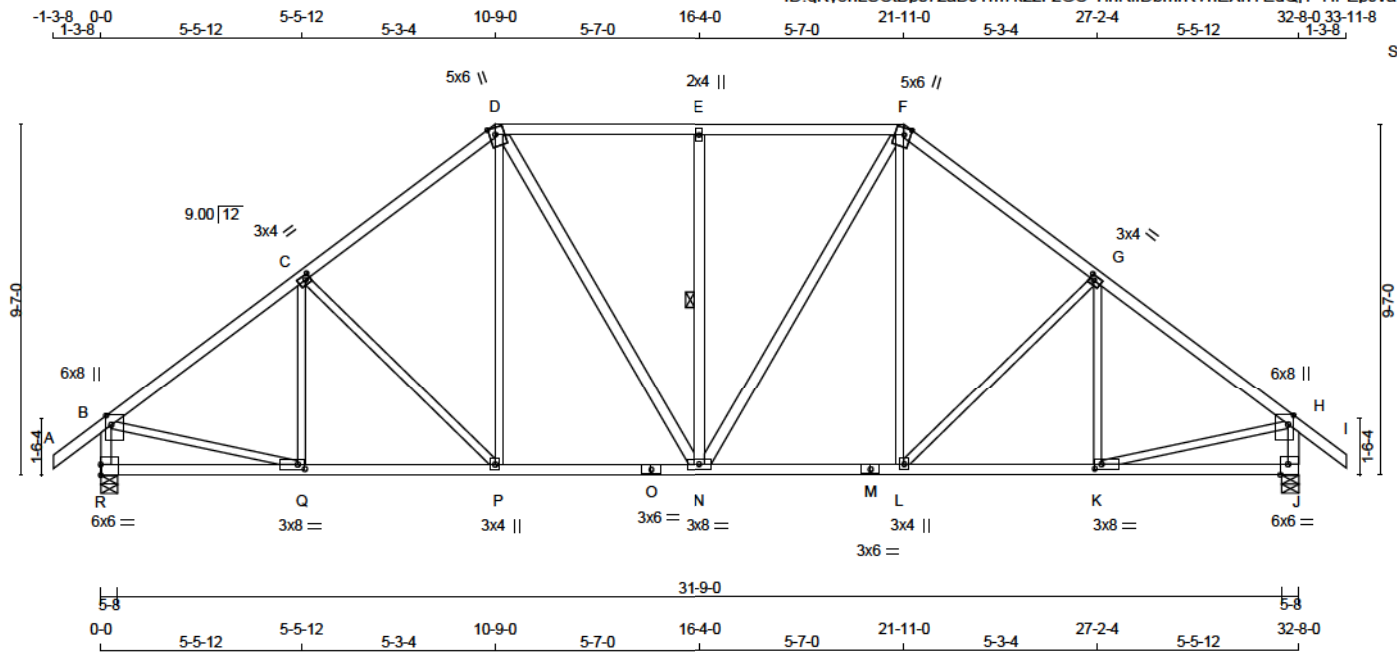
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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Version 8.420 S Oct 9 2020 MTEK Industries, Inc. Sat Dec 19 20:39:39 2020 Page 1

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Scale = 1:62.9

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B TMVW+p	MT20	6.0	8.0	3.00	1.75
C TMVW-t	MT20	3.0	4.0	1.50	1.50
D TTWW+m	MT20	5.0	6.0	Edge	2.00
E TMVW+w	MT20	2.0	4.0		
F TTWW+m	MT20	5.0	6.0	Edge	2.00
G TMVW-t	MT20	3.0	4.0	1.50	1.50
H TMVW+p	MT20	6.0	8.0	3.00	1.75
J BMV1-t	MT20	6.0	6.0	Edge	2.50
K BMVW-t	MT20	3.0	8.0	1.50	2.25
L BMVW+t	MT20	3.0	4.0		
M BS-t	MT20	3.0	6.0		
N BMVW-t	MT20	3.0	8.0		
O BS-t	MT20	3.0	6.0		
P BMVW+t	MT20	3.0	4.0		
Q BMVW-t	MT20	3.0	8.0	1.50	2.25
R BMV1-t	MT20	6.0	6.0	3.50	

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

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	DOWN	HORIZ	UPLIFT
R 2845 0	2845 0	0 0	5-8 5-8
J 2845 0	2845 0	0 0	5-8 5-8

UNFACTORED REACTIONS

1ST LCASE	MAX	MIN	COMPONENT REACTIONS
JT COMBINED	SNOW	LIVE	PERM. LIVE
R 2098 1233 / 0	343 / 0	0 / 0	0 / 0
J 2098 1233 / 0	343 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.45 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF E-N. DBS = 20-0.0 . CBF = 108 LBS.
DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING
TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX CSI (LC)	UNBRACED LENGTH
FR-TO				FR-TO			
A-B	0 / 51	-124.4	-124.4 0.17 (1)	10.00	Q-C	-289 / 81	0.14 (1)
B-C	-2952 / 0	-124.4	-124.4 0.85 (1)	3.45	C-P	-442 / 0	0.50 (1)
C-D	-2658 / 0	-124.4	-124.4 0.59 (1)	3.86	P-D	0 / 522	0.12 (2)
D-E	-2410 / 0	-124.4	-124.4 0.58 (1)	3.77	D-N	0 / 622	0.10 (1)
E-F	-2410 / 0	-124.4	-124.4 0.58 (1)	3.77	N-E	-847 / 0	0.37 (1)
F-G	-2658 / 0	-124.4	-124.4 0.59 (1)	3.86	N-F	0 / 622	0.10 (1)
G-H	-2952 / 0	-124.4	-124.4 0.85 (1)	3.45	L-F	0 / 522	0.12 (2)
H-I	0 / 51	-124.4	-124.4 0.17 (1)	10.00	L-G	-442 / 0	0.50 (1)
R-B	-2758 / 0	0.0	0.0 0.29 (1)	5.19	K-G	-289 / 81	0.14 (1)
J-H	-2758 / 0	0.0	0.0 0.29 (1)	5.19	B-Q	0 / 2455	0.55 (1)
					K-H	0 / 2455	0.55 (1)
R-Q	0 / 0	-39.2	-39.2 0.22 (3)	10.00			
Q-P	0 / 2399	-39.2	-39.2 0.52 (1)	10.00			
P-O	0 / 2090	-39.2	-39.2 0.47 (1)	10.00			
O-N	0 / 2090	-39.2	-39.2 0.47 (1)	10.00			
N-M	0 / 2090	-39.2	-39.2 0.47 (1)	10.00			
M-L	0 / 2090	-39.2	-39.2 0.47 (1)	10.00			
L-K	0 / 2399	-39.2	-39.2 0.52 (1)	10.00			
K-J	0 / 0	-39.2	-39.2 0.22 (3)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 34.8 PSF
DL = 8.0 PSF
BOT CH. LL = 10.5 PSF
DL = 7.3 PSF
TOTAL LOAD = 60.6 PSF

SPACING = 24.0 IN. C/C

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

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- 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 (0.10")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.10")
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CSI: TC=0.85/1.00 (G-H-1) , BC=0.52/1.00 (P-Q-1) , WB=0.55/1.00 (B-Q-1) , SSI=0.34/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (N) (INPUT = 0.90)
JSI METAL = 0.63 (M) (INPUT = 1.00)

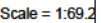


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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

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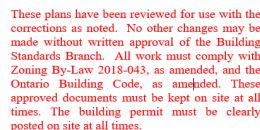


[M][F]

DRY: SEASONED LUMBER.

WEBS		
MEMB.	FORCE (LBS)	MAX FACTORED CSI (LC)
FR-TO		
S-D	-157 / 182	0.10 (1)
D-R	-877 / 0	0.41 (1)
R-E	0 / 669	0.11 (1)
E-P	0 / 325	0.05 (1)
P-F	-526 / 0	0.33 (1)
F-G	0 / 325	0.05 (1)
G-O	0 / 669	0.11 (1)
O-H	-877 / 0	0.41 (1)
H-M	-157 / 182	0.10 (1)
B-S	0 / 2463	0.55 (1)
M-J	0 / 2463	0.55 (1)

JSI GRIP= 0.88 (S) (INPUT = 0.90)
JSI METAL= 0.74 (N) (INPUT = 1.00)



Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

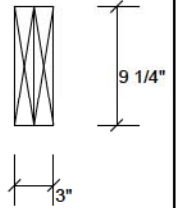
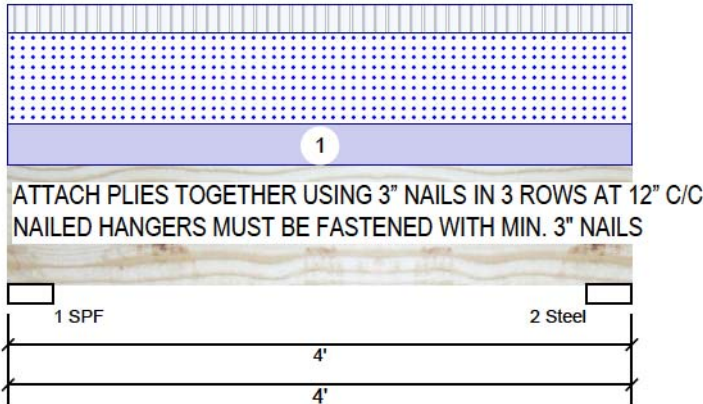
CONTINUED ON PAGE 2



**READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
THIS DRAWING AS IT CONTAINS
SPECIFICATIONS AND CRITERIA USED IN
THE DESIGN OF THIS COMPONENT.**

B1 S-P-F #2 2.000" X 10.000" 2-Ply - PASSED

Level: Level



Member Information

Type:	Girder	Application:	Roof (Residential)
Plies:	2	Slope:	0/12
Moisture Condition:	Dry	Design Method:	LSD
Deflection LL:	360	Building Code:	NBCC 2015 / OBC 2012
Deflection TL:	360	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	270	393	893	0
2	270	393	893	0

Bearings and Factored Reactions

Bearing	Length	Cap.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	33%	491 / 1609	2100	L	1.25D+1.5S +L
2 - Steel	3.500"	33%	491 / 1609	2100	L	1.25D+1.5S +L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1646 ft-lb	2'	6039 ft-lb	0.273 (27%)	1.25D+1.5S +L	L
Unbraced	1646 ft-lb	2'	5667 ft-lb	0.291 (29%)	1.25D+1.5S +L	L
Shear	1860 lb	1'	3984 lb	0.467 (47%)	1.25D+1.5S +L	L
LL Defl inch	0.007 (L/6366)	2' 1/16"	0.118 (L/360)	0.060 (6%)	S+0.5L	L
TL Defl inch	0.009 (L/4607)	2' 1/16"	0.118 (L/360)	0.080 (8%)	D+S+0.5L	L

Design Notes

- Girders are designed to be supported on the bottom edge only.
- Multiple plies must be fastened together as per manufacturer's details.
- Top braced at bearings.
- Bottom braced at bearings.
- Lateral slenderness ratio based on single ply width.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform		12-10-0	Far Face	15.3 PSF	10.5 PSF	34.8 PSF	0 PSF	

READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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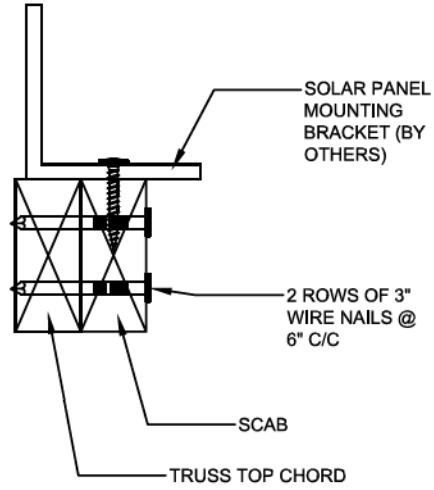
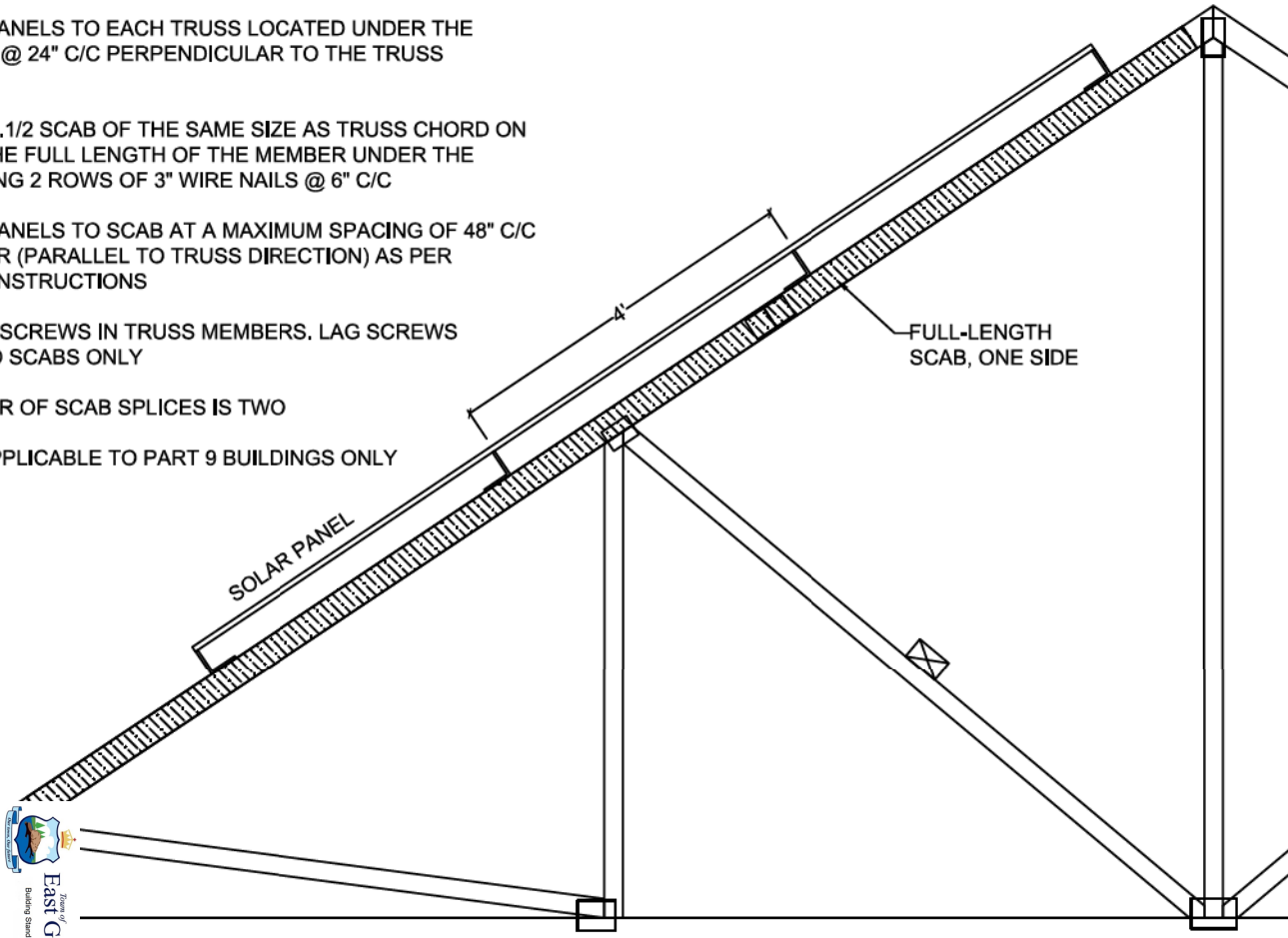
Kott Group
14 Anderson Blvd., On
L4A7X4
905-642-4400



This design is valid until 10/10/20

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			

- 1) ENSURE TRUSS HAS BEEN DESIGNED WITH ADDITIONAL TOP CHORD DEAD LOAD EQUAL TO OR GREATER THAN WEIGHT OF SOLAR PANELS BEING INSTALLED
- 2) ATTACH SOLAR PANELS TO EACH TRUSS LOCATED UNDER THE SOLAR PANELS (I.E. @ 24" C/C PERPENDICULAR TO THE TRUSS DIRECTION)
- 3) ATTACH A SPF No.1/2 SCAB OF THE SAME SIZE AS TRUSS CHORD ON ONE SIDE ALONG THE FULL LENGTH OF THE MEMBER UNDER THE SOLAR PANELS USING 2 ROWS OF 3" WIRE NAILS @ 6" C/C
- 4) ATTACH SOLAR PANELS TO SCAB AT A MAXIMUM SPACING OF 48" C/C ALONG THE MEMBER (PARALLEL TO TRUSS DIRECTION) AS PER MANUFACTURER'S INSTRUCTIONS
- 5) DO NOT USE LAG SCREWS IN TRUSS MEMBERS. LAG SCREWS SHOULD ATTACH TO SCABS ONLY
- 6) MAXIMUM NUMBER OF SCAB SPLICES IS TWO
- 7) THIS DETAIL IS APPLICABLE TO PART 9 BUILDINGS ONLY





City of East Gwillimbury

 Building Standards Branch BCN #16487

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Building Code	Revised	BCN	Date
Severage System	H. Admet	45236	2021-02-03
Zoning			

NE1220-131
 GREENPARK - TRINAR
 HALL - LOT 30

Detail for Installation of Solar Panels - Scab Method



Dec 19, 2020



NE1220-131
GREENPARK - TRINAR
HALL - LOT 30

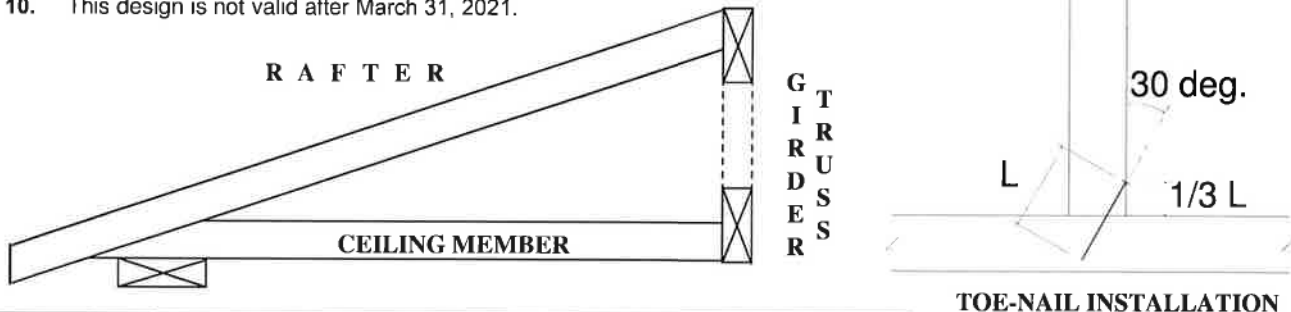
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	132	147
	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON SPIRAL	3.00	0.122	97	108
	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.4.1.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
7. For loads due to **wind** the nail lateral capacity in this table may be multiplied by 1.15 (K_D factor).
8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
9. Nail values in this table comply with CSA O86-14, section 12.9.4
10. This design is not valid after March 31, 2021.

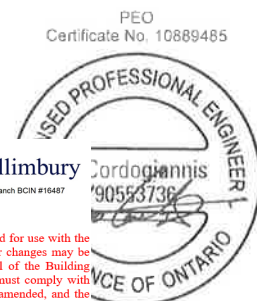


Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	MAXIMUM NUMBER OF TOE-NAILS			
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

MiTek® MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7



Town of
East Gwillimbury
Building Standards Branch RCIN #16487



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-18
Sewage System			
Zoning			

NE1220-131
GREENPARK - TRINAR
HALL - LOT 30

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

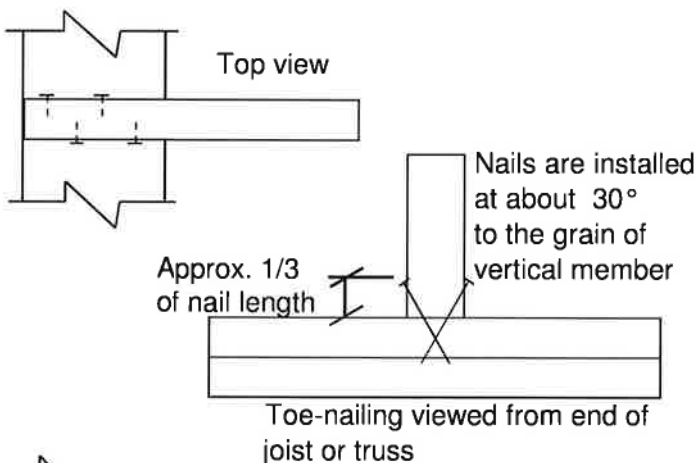
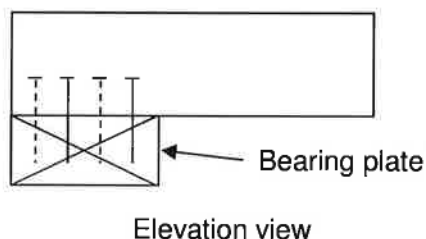
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON WIRE	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52
COMMON SPIRAL	3.00	0.122	26	36
	3.25	0.122	28	40
	3.50	0.152	36	50

Note: If using truss with D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.

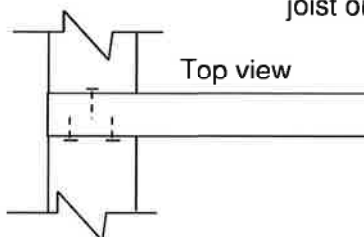
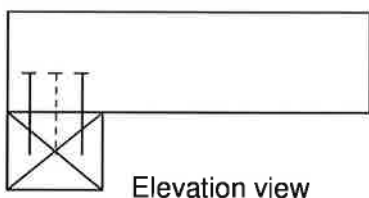
NOTES:

1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to **wind** or **earthquake** load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
2. Toe nail capacities shown in the table are for **one** toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
3. For 9- 3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
5. Nail values in table are based on the following relative lumber densities: $G = 0.42$ (SPF), $G = 0.49$ (D. Fir).
6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
8. Nail values in this table comply with CSA O86-14, section 12.9.5
9. This design is not valid after March 31, 2021.

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



MiTek

MiTek Canada Inc
100 Industrial Rd.
Bradford, Ontario L3Z 3G7



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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-03
Sewage System			
Zoning			