

Reviewed for Ontario Building Code Compliance.
Subject to Corrections Noted on Plans and Field Inspections.

Permit No. 21 104272 000 00 R9
Date 05/19/21
Name Laurie Smith
Approved by: *[Signature]*

TOTAL WEIGHT = 14 X 69 = 964 lb

LUMBER
N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p MT20	2.0	6.0		
C	TMWW-I MT20	3.0	6.0		
D	TTW+p MT20	3.0	6.0		
E	TMWW-I MT20	3.0	6.0		
F	TMV+p MT20	2.0	6.0		
H	BMWW-I MT20	3.0	6.0		
I	BMWW-I MT20	3.0	6.0		
J	BMWW-I MT20	3.0	6.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT IN-SX	REQRD BRG IN-SX
J	1051	0	1051	0	5-8	5-8
H	1051	0	1051	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX/MIN SNOW	MIN COMPONENT REACTIONS LIVE	PERM LIVE	WIND	DEAD	SOIL
J	739	509 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
H	739	509 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

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

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

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

LOADING
TOTAL LOAD CASES: (4)

MEMB.	C H O R D S			W E B S		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX FACTORED FORCE (LBS)
FR-TO		FROM	TO		FR-TO	
A-B	0 / 54	-91.8	-91.8	0.29 (1)	10.00	I-D 0 / 442
B-C	0 / 24	-91.8	-91.8	0.22 (1)	10.00	I-E -203 / 0
C-D	-682 / 0	-91.8	-91.8	0.18 (1)	6.25	C-I -203 / 0
D-E	-682 / 0	-91.8	-91.8	0.18 (1)	6.25	J-C -970 / 0
E-F	0 / 24	-91.8	-91.8	0.22 (1)	10.00	E-H -970 / 0
F-G	0 / 54	-91.8	-91.8	0.29 (1)	10.00	
J-B	-327 / 0	0.0	0.0	0.03 (1)	7.81	
H-F	-327 / 0	0.0	0.0	0.03 (1)	7.81	
J-I	0 / 699	-17.5	-17.5	0.36 (4)	10.00	
I-H	0 / 699	-17.5	-17.5	0.36 (4)	10.00	

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH LL = 25.6 PSF
DL = 6.0 PSF
BOT CH LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 38.6 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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.52")
CALCULATED VERT. DEFL.(LL) = L / 999 (0.02")
ALLOWABLE DEFL.(TL)= L/360 (0.52")
CALCULATED VERT. DEFL.(TL) = L / 999 (0.09")

CSI: TC=0.29/1.00 (F-G-1) , BC=0.36/1.00 (H-I-4) , WB=0.44/1.00 (C-J-1) , SSI=0.15/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

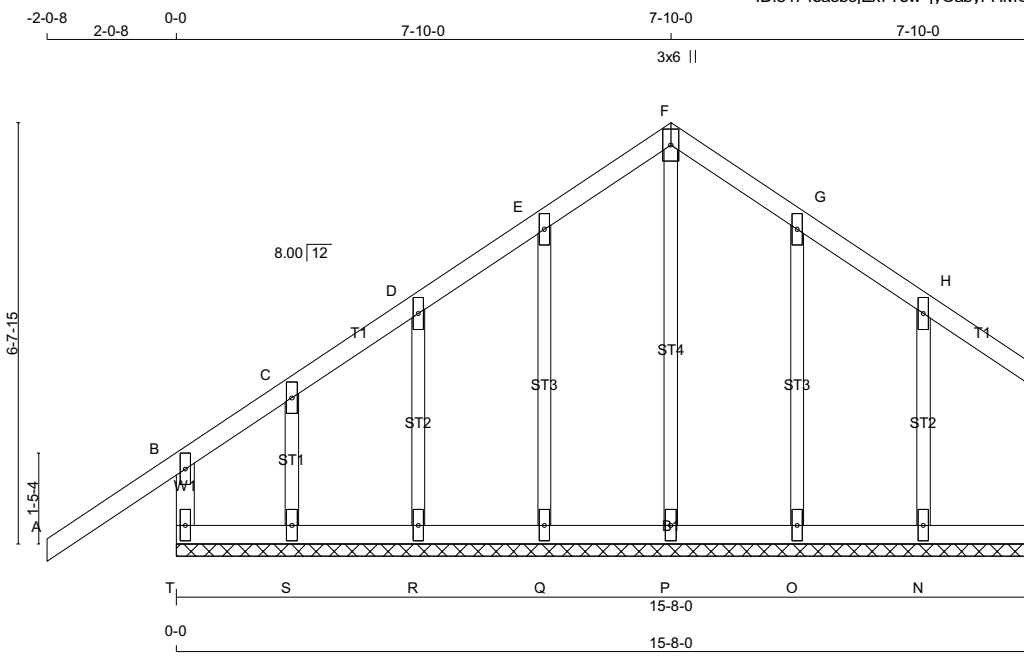
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (H) (INPUT = 0.90)
JSI METAL = 0.22 (C) (INPUT = 1.00)



Hamilton

Building Division

Reviewed for Ontario
Building Code Compliance.

Subject to Corrections Noted
on Plans and Field Inspections.

Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *L. Smith*

Scale = 1:36

Draft A, nov30-2017-8.plt

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
T - B	2x4	DRY No.2	SPF
A - F	2x4	DRY No.2	SPF
F - K	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
T - L	2x4	DRY No.2	SPF

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

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	6.0	
C, D, E, G, H, I					
C	TMW+w	MT20	2.0	6.0	
F	TTW+p	MT20	3.0	6.0	
J	TMV+p	MT20	2.0	6.0	
L	BMV1+p	MT20	2.0	6.0	
M, N, O, P, Q, R, S					
M	BMW1+w	MT20	2.0	6.0	
T	BMV1+p	MT20	2.0	6.0	

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

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

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

LOADING
TOTAL LOAD CASES: (4)

C H O R D S		W E B S					
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM	TO		FR-TO		
T-B	-285 / 0	0.0	0.0	0.13 (1)	7.81	P-F	-301 / 0 0.22 (1)
A-B	0 / 54	-91.8	-91.8	0.29 (1)	10.00	Q-E	-189 / 0 0.08 (1)
B-C	0 / 59	-91.8	-91.8	0.16 (1)	10.00	R-D	-195 / 0 0.05 (1)
C-D	0 / 105	-91.8	-91.8	0.06 (1)	10.00	S-C	-95 / 0 0.02 (1)
D-E	0 / 102	-91.8	-91.8	0.06 (1)	10.00	O-G	-189 / 0 0.08 (1)
E-F	0 / 104	-91.8	-91.8	0.06 (1)	10.00	N-H	-195 / 0 0.05 (1)
F-G	0 / 104	-91.8	-91.8	0.06 (1)	10.00	M-I	-95 / 0 0.02 (1)
G-H	0 / 102	-91.8	-91.8	0.06 (1)	10.00		
H-I	0 / 105	-91.8	-91.8	0.06 (1)	10.00		
I-J	0 / 59	-91.8	-91.8	0.16 (1)	10.00		
J-K	0 / 54	-91.8	-91.8	0.29 (1)	10.00		
L-J	-285 / 0	0.0	0.0	0.13 (1)	7.81		
T-S	-77 / 0	-17.5	-17.5	0.01 (4)	6.25		
S-R	-81 / 0	-17.5	-17.5	0.01 (4)	6.25		
R-Q	-85 / 0	-17.5	-17.5	0.01 (4)	6.25		
Q-P	-88 / 0	-17.5	-17.5	0.01 (4)	6.25		
P-O	-88 / 0	-17.5	-17.5	0.01 (4)	6.25		
O-N	-85 / 0	-17.5	-17.5	0.01 (4)	6.25		
N-M	-81 / 0	-17.5	-17.5	0.01 (4)	6.25		
M-L	-77 / 0	-17.5	-17.5	0.01 (4)	6.25		

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 38.6 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 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.29/1.00 (J-K:1), BC=0.01/1.00 (M-N:4),
WB=0.22/1.00 (F-P:1), SSI=0.13/1.00 (J-K: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

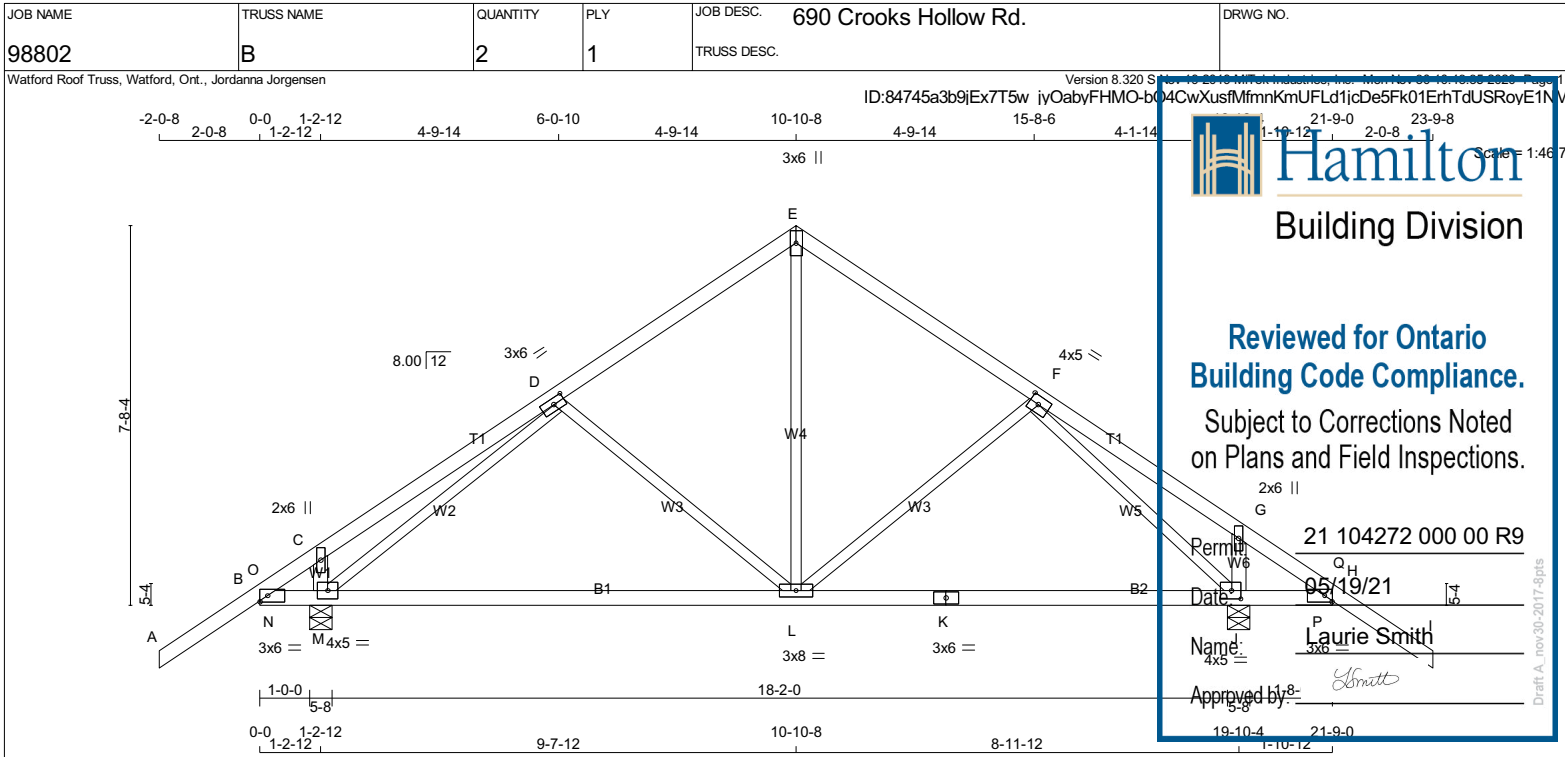
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

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= 0.13 (F) (INPUT = 0.90)
JSI METAL= 0.10 (H) (INPUT = 1.00)

TOTAL WEIGHT = 2 X 69 = 138 lb



LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - E	2x4	DRY No.2	SPF
A - I	2x4	DRY No.2	SPF
B - K	2x4	DRY No.2	SPF
K - H	2x4	DRY No.2	SPF
ALL WEBS EXCEPT			
M - C	2x4	DRY No.2	SPF
J - G	2x4	DRY No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMB-I	MT20	3.0	6.0		Edge
C	TMW+w	MT20	2.0	6.0		
D	TMW-w	MT20	3.0	6.0	1.50	2.75
E	TTW+p	MT20	3.0	6.0		
F	TMW-w	MT20	4.0	5.0	2.00	2.25
G	TMW+w	MT20	2.0	6.0		
H	TMB-I	MT20	3.0	6.0		Edge
J	BMW1-t	MT20	4.0	5.0	2.00	2.25
K	BS-t	MT20	3.0	6.0		
L	BMW-w	MT20	3.0	8.0		
M	BMW1-t	MT20	4.0	5.0		

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	DOWN	IN-SX	IN-SX
M	1333	0	5-8	5-8
J	1432	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
M	938	641 / 0	0 / 0	0 / 0	0 / 0	297 / 0	0 / 0	0 / 0
J	1008	689 / 0	0 / 0	0 / 0	0 / 0	319 / 0	0 / 0	0 / 0

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

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

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

LOADING

TOTAL LOAD CASES: (4)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 (CSI)	MAX (LC)	MAX. MEMB. FORCE (LBS)	FACTORED UNBRACED LENGTH (FR-TO)	MAX. FORCE (LBS)	MAX (LC)
FR-TO		FROM	TO			FR-TO		
A-B	0 / 51	-91.8	-91.8	0.29 (1)	10.00	M-C	-329 / 0	0.03 (1)
B-O	-85 / 0	-91.8	-91.8	0.22 (1)	6.25	M-D	-1328 / 0	0.94 (1)
O-C	-83 / 299	-91.8	-91.8	0.28 (1)	6.25	D-L	-260 / 0	0.19 (1)
C-D	-64 / 287	-91.8	-91.8	0.34 (1)	6.25	L-E	0 / 391	0.09 (1)
D-E	-708 / 0	-91.8	-91.8	0.26 (1)	6.25	L-F	-104 / 0	0.08 (1)
E-F	-707 / 0	-91.8	-91.8	0.26 (1)	6.25	F-J	-1500 / 0	0.88 (1)
F-G	0 / 502	-91.8	-91.8	0.36 (1)	10.00	J-G	-250 / 0	0.03 (1)
G-Q	0 / 483	-91.8	-91.8	0.22 (1)	10.00	N-O	-49 / 464	0.00 (1)
Q-H	0 / 162	-91.8	-91.8	0.31 (1)	10.00	P-Q	-23 / 321	0.00 (1)
H-I	0 / 51	-91.8	-91.8	0.29 (1)	10.00			
B-N	-205 / 57	-17.5	-17.5	0.12 (1)	6.25			
N-M	-205 / 57	-17.5	-17.5	0.31 (4)	6.25			
M-L	0 / 769	-17.5	-17.5	0.37 (4)	10.00			
L-K	0 / 649	-17.5	-17.5	0.36 (4)	10.00			
K-J	0 / 649	-17.5	-17.5	0.36 (4)	10.00			
J-P	-392 / 0	-17.5	-17.5	0.17 (4)	6.25			
P-H	-392 / 0	-17.5	-17.5	0.08 (1)	6.25			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH	LL	= 25.6 PSF
	DL	= 6.0 PSF
BOT CH	LL	= 0.0 PSF
	DL	= 7.0 PSF
TOTAL LOAD	= 38.6 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 NBC 2015, 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 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.62")

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

ALLOWABLE DEFL.(TL) = L/360 (0.62")

CALCULATED VERT. DEFL.(TL) = L/999 (0.10")

CANTILEVER DEFLECTION:

ALLOWABLE DEFL.(LL) = L/120 (0.19")

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

ALLOWABLE DEFL.(TL) = L/120 (0.19")

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

CSI: TC=0.36/1.00 (F-G:1), BC=0.37/1.00 (L-M:4), WB=0.94/1.00 (D-M:1), SSI=0.39/1.00 (B-N:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

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

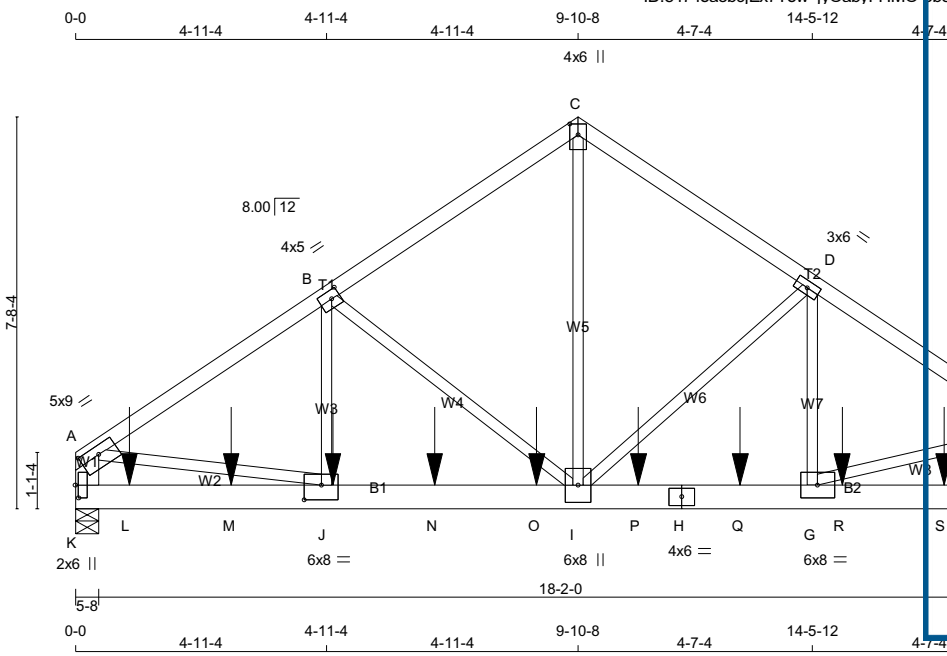
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (D) (INPUT = 0.90)
JSI METAL= 0.39 (F) (INPUT = 1.00)

TOTAL WEIGHT = 2 X 88 = 176 lb

Watford Roof Truss, Watford, Ont., Jordana Jorgensen



Hamilton Building Division

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104272 000 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *Smith*

Scale = 1:45.3

Draft A_nov30-2017-8.plt

TOTAL WEIGHT = 2 X 92 = 184 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
K - A	2x6	DRY No.2	SPF
F - E	2x6	DRY No.2	SPF
K - H	2x6	DRY No.2	SPF
H - F	2x6	DRY No.2	SPF

ALL WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

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

CHORDS #ROWS	SURFACE SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
A-C	12	TOP
C-E	12	TOP
K-A	12	TOP
F-E	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
K-H	12	SIDE(183.1)
H-F	12	SIDE(0.0)
WEBS : (0.122"x3") SPIRAL NAILS		
B-J	6	SIDE(86.4)
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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

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

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMWW-t	MT20	5.0	9.0	2.00 4.50
B	TMWW-t	MT20	4.0	5.0	2.00 2.00
C	TTW+p	MT20	4.0	6.0	2.50 2.00
D	TMWW-t	MT20	3.0	6.0	
E	TMWW-t	MT20	5.0	9.0	2.00 4.50
F	BVM1-t	MT20	2.0	6.0	

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM GROSS REACTION	FACTORED INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ
K	5931	0	5931	0
F	5451	0	5451	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
K	4165	2899 / 0	0 / 0	0 / 0	0 / 0	1266 / 0	0 / 0	0 / 0
F	3829	2662 / 0	0 / 0	0 / 0	0 / 0	1166 / 0	0 / 0	0 / 0

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.46 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB. FORCE (LBS)	FACTORED MAX (LC)	MAX	MAX
FR-TO	FROM	TO	LENGTH	FR-TO	FROM	TO	LENGTH
A-B	-6944 / 0	-91.8	-91.8	0.44 (1)	3.46	J-B	0 / 2085
B-C	-4855 / 0	-91.8	-91.8	0.30 (1)	4.16	B-I	-2284 / 0
C-D	-4853 / 0	-91.8	-91.8	0.26 (1)	4.19	I-C	0 / 5002
D-E	-6185 / 0	-91.8	-91.8	0.33 (1)	3.72	I-D	-1549 / 0
K-A	-4871 / 0	0.0	0.0	0.17 (1)	6.58	G-D	0 / 1309
F-E	-4897 / 0	0.0	0.0	0.19 (1)	6.56	A-J	0 / 5855
						G-E	0 / 5320
K-L	0 / 0	-17.5	-17.5	0.41 (1)	10.00		
L-M	0 / 0	-17.5	-17.5	0.41 (1)	10.00		
M-J	0 / 0	-17.5	-17.5	0.41 (1)	10.00		
J-N	0 / 5797	-17.5	-17.5	0.75 (1)	10.00		
N-O	0 / 5797	-17.5	-17.5	0.75 (1)	10.00		
O-I	0 / 5797	-17.5	-17.5	0.75 (1)	10.00		
I-P	0 / 5163	-17.5	-17.5	0.71 (1)	10.00		
P-H	0 / 5163	-17.5	-17.5	0.71 (1)	10.00		
H-Q	0 / 5163	-17.5	-17.5	0.71 (1)	10.00		
Q-G	0 / 5163	-17.5	-17.5	0.71 (1)	10.00		
G-R	0 / 0	-17.5	-17.5	0.40 (1)	10.00		
R-S	0 / 0	-17.5	-17.5	0.40 (1)	10.00		
S-F	0 / 0	-17.5	-17.5	0.40 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	5-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
L	1-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
M	3-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
N	7-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
O	9-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
P	11-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
Q	13-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
R	15-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
S	17-0-12	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
	LL	25.6
	DL	6.0
BOT CH.	LL	PSF
	LL	0.0
	DL	7.0
TOTAL LOAD		38.6

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

(55 % OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.64")
 CALCULATED VERT. DEFL.(LL) = L / 999 (0.09")
 ALLOWABLE DEFL.(TL)= L/360 (0.64")
 CALCULATED VERT. DEFL.(TL) = L / 999 (0.17")

CSI: TC=0.44/1.00 (A-B-1), BC=0.75/1.00 (I-J-1), WB=0.82/1.00 (B-I-1), SSI=0.53/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (J) (INPUT = 0.90)
 JSI METAL = 0.85 (H) (INPUT = 1.00)

JOB NAME 98802	TRUSS NAME BG	QUANTITY 1	PLY 2	JOB DESC. 690 Crooks Hollow Rd.	DRWG NO.
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Watford Roof Truss, Watford, Ont., Jordanna Jorgensen

Version 8.320 S... ID:84745a3b9jEx7T5w_jyOabyFHMO-3bea8tvUQgncPULgp38GFpmobf_KmjwqiHE0zEyE1N

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
G	BMWW-t	MT20	6.0	8.0		
H	BS-t	MT20	4.0	6.0		
I	BMWWW+t	MT20	6.0	8.0		
J	BMWW-t	MT20	6.0	8.0	3.50	4.00
K	BMV1+p	MT20	2.0	6.0	3.00	0.75



Reviewed for Ontario Building Code Compliance.

Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104272 000 00 R9

Date: 05/19/21

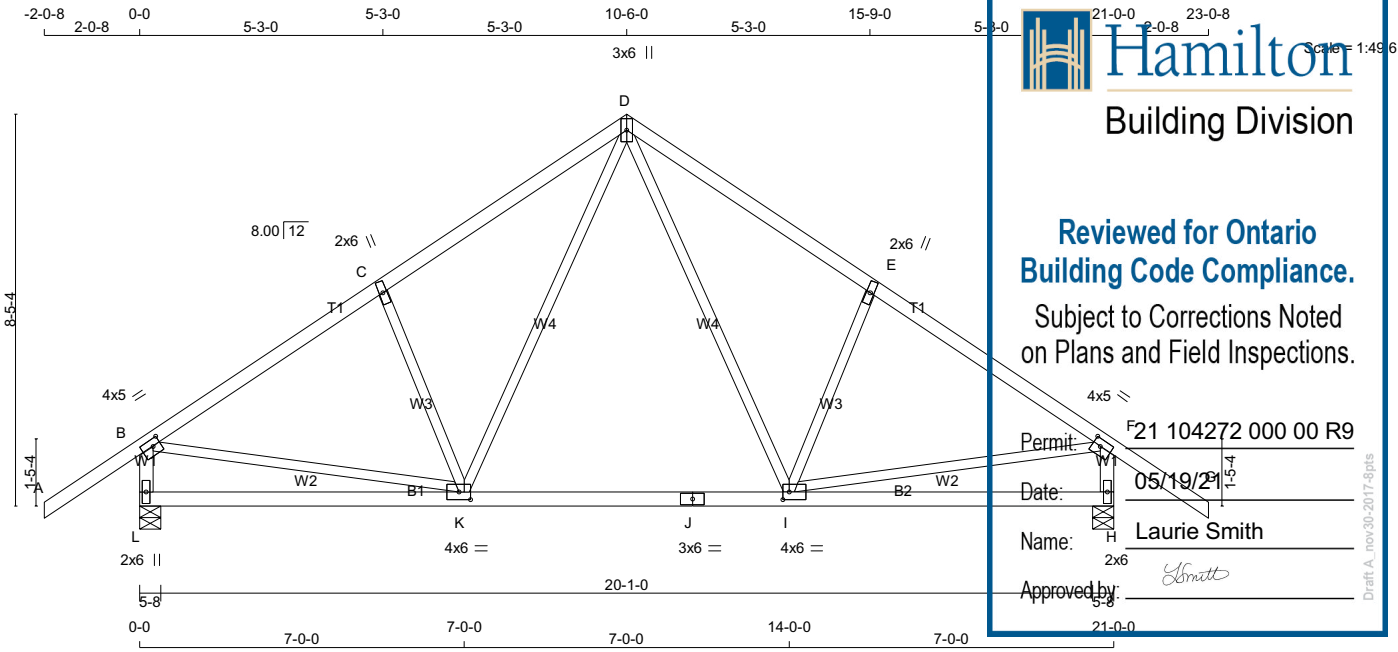
Name: Laurie Smith

Approved by: *L. Smith*

Draft A - Nov-30-2017-8.pls

Watford Roof Truss, Watford, Ont., Jordana Jorgensen

Version 8.320 S ID:84745a3b9jEx7T5w iyOabyFHMO-3bea8tVUQncPULgp38GFpmp f53msoqiHE0zEyE1N



Hamilton Building Division

Reviewed for Ontario Building Code Compliance. Subject to Corrections Noted on Plans and Field Inspections.

Permit: F21 104272 000 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *[Signature]*

Scale = 1:49.6

Draft A_nov30-2017-8.plt

TOTAL WEIGHT = 16 X 93 = 1494 lb

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	4.0	5.0	1.75 2.00
C	TMW+w	MT20	2.0	6.0	
D	TTW+p	MT20	3.0	6.0	
E	TMW+w	MT20	2.0	6.0	
F	TMW-t	MT20	4.0	5.0	1.75 2.00
H	BMV1+p	MT20	2.0	6.0	
I	BMWWT-t	MT20	4.0	6.0	2.00 1.50
J	BS-t	MT20	3.0	6.0	
K	BMWWT-t	MT20	4.0	6.0	2.00 3.00
L	BMV1+p	MT20	2.0	6.0	

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION HORZ	INPUT BRG UPLIFT IN-SX	REQRD BRG IN-SX
L	1342	0	1342	0	5-8	5-8
H	1342	0	1342	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
L	944	646 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0
H	944	646 / 0	0 / 0	0 / 0	0 / 0	298 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.26 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)

FR-TO	CHORDS			MEMB. LENGTH	WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)		MEMB. FORCE (LBS)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
A-B	0 / 54	-91.8	-91.8 0.29 (1)	10.00	D-I	0 / 468	0.11 (1)
B-C	-1303 / 0	-91.8	-91.8 0.35 (1)	5.26	I-E	-508 / 0	0.21 (1)
C-D	-1144 / 0	-91.8	-91.8 0.34 (1)	5.54	K-D	0 / 468	0.11 (1)
D-E	-1144 / 0	-91.8	-91.8 0.34 (1)	5.54	C-K	-508 / 0	0.21 (1)
E-F	-1303 / 0	-91.8	-91.8 0.35 (1)	5.26	B-K	0 / 1125	0.25 (1)
F-G	0 / 54	-91.8	-91.8 0.29 (1)	10.00	I-F	0 / 1125	0.25 (1)
L-B	-1292 / 0	0.0	0.0 0.13 (1)	7.10			
H-F	-1292 / 0	0.0	0.0 0.13 (1)	7.10			
L-K	0 / 0	-17.5	-17.5 0.20 (4)	10.00			
K-J	0 / 738	-17.5	-17.5 0.26 (4)	10.00			
J-I	0 / 738	-17.5	-17.5 0.26 (4)	10.00			
I-H	0 / 0	-17.5	-17.5 0.20 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH	LL = 25.6 PSF
	DL = 6.0 PSF
BOT CH	LL = 0.0 PSF
	DL = 7.0 PSF
TOTAL LOAD	= 38.6 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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL. (LL) = L/360 (0.70")
 CALCULATED VERT. DEFL. (LL) = L/999 (0.04")
 ALLOWABLE DEFL. (TL) = L/360 (0.70")
 CALCULATED VERT. DEFL. (TL) = L/999 (0.09")

CSI: TC=0.35/1.00 (E-F-1), BC=0.26/1.00 (I-K-4), WB=0.25/1.00 (B-K-1), SSI=0.20/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00
 AUTOSOLVE HEELS OFF

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

NAIL VALUES

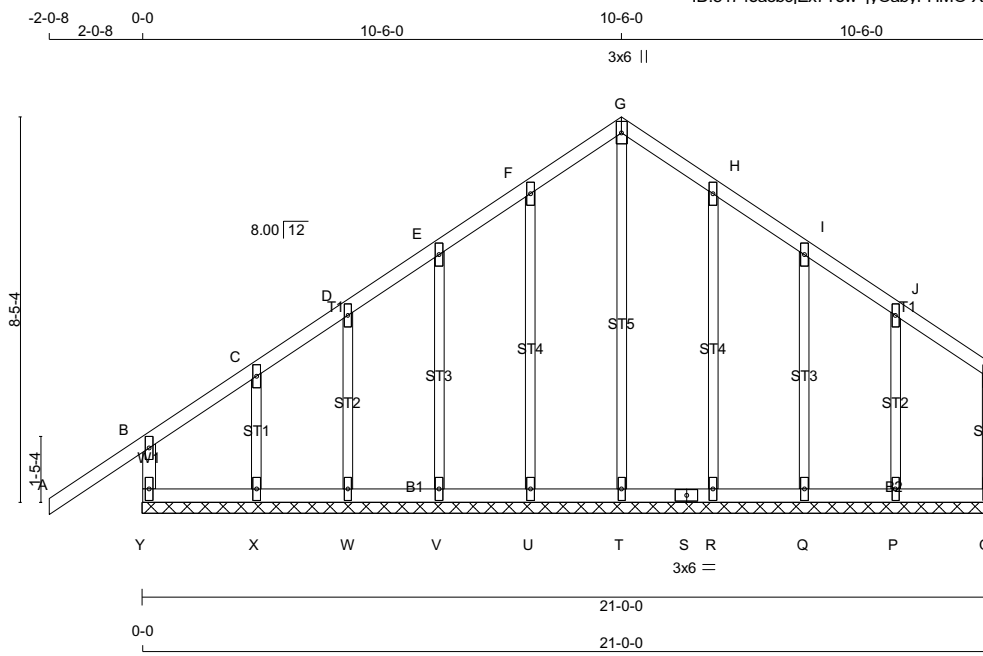
PLATE	GRIP (DRY)	SHEAR (PSI)	SECTION (PLI)	MIN	MAX
MT20	650	371	1747	788	1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.81 (I) (INPUT = 0.90)
 JSI METAL = 0.42 (F) (INPUT = 1.00)

Watford Roof Truss, Watford, Ont., Jordanna Jorgensen Version 8.320 S ID:84745a3b9jEx7T5w jyOabyFHMO-XnCyLDw6BzvT0ewtMmqVo1?d3V?VGq xxzZWhyE11K



Hamilton
Building Division

Reviewed for Ontario Building Code Compliance.

Subject to Corrections Noted on Plans and Field Inspections.

Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: N Laurie Smith

Approved by: *L. Smith*

Scale = 1:50.5
Draft A, nov30-2017-8.plt

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
Y - B	2x4	DRY	No.2	SPF
A - G	2x4	DRY	No.2	SPF
G - M	2x4	DRY	No.2	SPF
N - L	2x4	DRY	No.2	SPF
Y - S	2x4	DRY	No.2	SPF
S - N	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 TMV+p	MT20	2.0	6.0		
C, D, E, F, H, I, J, K					
C TMW+w	MT20	2.0	6.0		
G TTW+p	MT20	3.0	6.0		
L TMV+p	MT20	2.0	6.0		
N BMV1+p	MT20	2.0	6.0		
O, P, Q, R, T, U, V, W, X					
O BMW1+w	MT20	2.0	6.0		
S BS-t	MT20	3.0	6.0		
Y BMV1+p	MT20	2.0	6.0		

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.
 THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.
 BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S)

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 10.00 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

LOADING
 TOTAL LOAD CASES: (4)

C H O R D S		W E B S					
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM	TO		FR-TO		
Y-B	-306 / 0	0.0	0.0	0.12 (1)	7.81	T-G	-284 / 0
A-B	0 / 54	-91.8	-91.8	0.29 (1)	10.00	U-F	-194 / 0
B-C	0 / 53	-91.8	-91.8	0.17 (1)	10.00	V-E	-176 / 0
C-D	0 / 87	-91.8	-91.8	0.06 (1)	10.00	W-D	-192 / 0
D-E	0 / 85	-91.8	-91.8	0.06 (1)	10.00	X-C	-149 / 0
E-F	0 / 92	-91.8	-91.8	0.06 (1)	10.00	R-H	-194 / 0
F-G	0 / 90	-91.8	-91.8	0.06 (1)	10.00	Q-I	-176 / 0
G-H	0 / 90	-91.8	-91.8	0.06 (1)	10.00	P-J	-192 / 0
H-I	0 / 92	-91.8	-91.8	0.06 (1)	10.00	O-K	-149 / 0
I-J	0 / 85	-91.8	-91.8	0.06 (1)	10.00		
J-K	0 / 87	-91.8	-91.8	0.06 (1)	10.00		
K-L	0 / 53	-91.8	-91.8	0.17 (1)	10.00		
L-M	0 / 54	-91.8	-91.8	0.29 (1)	10.00		
N-L	-306 / 0	0.0	0.0	0.12 (1)	7.81		
Y-X	-64 / 0	-17.5	-17.5	0.02 (1)	6.25		
X-W	-68 / 0	-17.5	-17.5	0.02 (4)	6.25		
W-V	-72 / 0	-17.5	-17.5	0.01 (4)	6.25		
V-U	-75 / 0	-17.5	-17.5	0.01 (4)	6.25		
U-T	-77 / 0	-17.5	-17.5	0.01 (4)	6.25		
T-S	-77 / 0	-17.5	-17.5	0.01 (4)	6.25		
S-R	-77 / 0	-17.5	-17.5	0.01 (4)	6.25		
R-Q	-75 / 0	-17.5	-17.5	0.01 (4)	6.25		
Q-P	-72 / 0	-17.5	-17.5	0.01 (4)	6.25		
P-O	-68 / 0	-17.5	-17.5	0.02 (4)	6.25		
O-N	-64 / 0	-17.5	-17.5	0.02 (1)	6.25		

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH LL = 25.6 PSF
 DL = 6.0 PSF
 BOT CH LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 38.6 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 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
 EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.29/1.00 (L-M:1) , BC=0.02/1.00 (X-Y:1) ,
 WB=0.40/1.00 (G-T:1) , SSI=0.13/1.00 (L-M:1)

DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10
 SHEAR=1.10 TENS= 1.10
 COMPANION LIVE LOAD FACTOR = 1.00

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

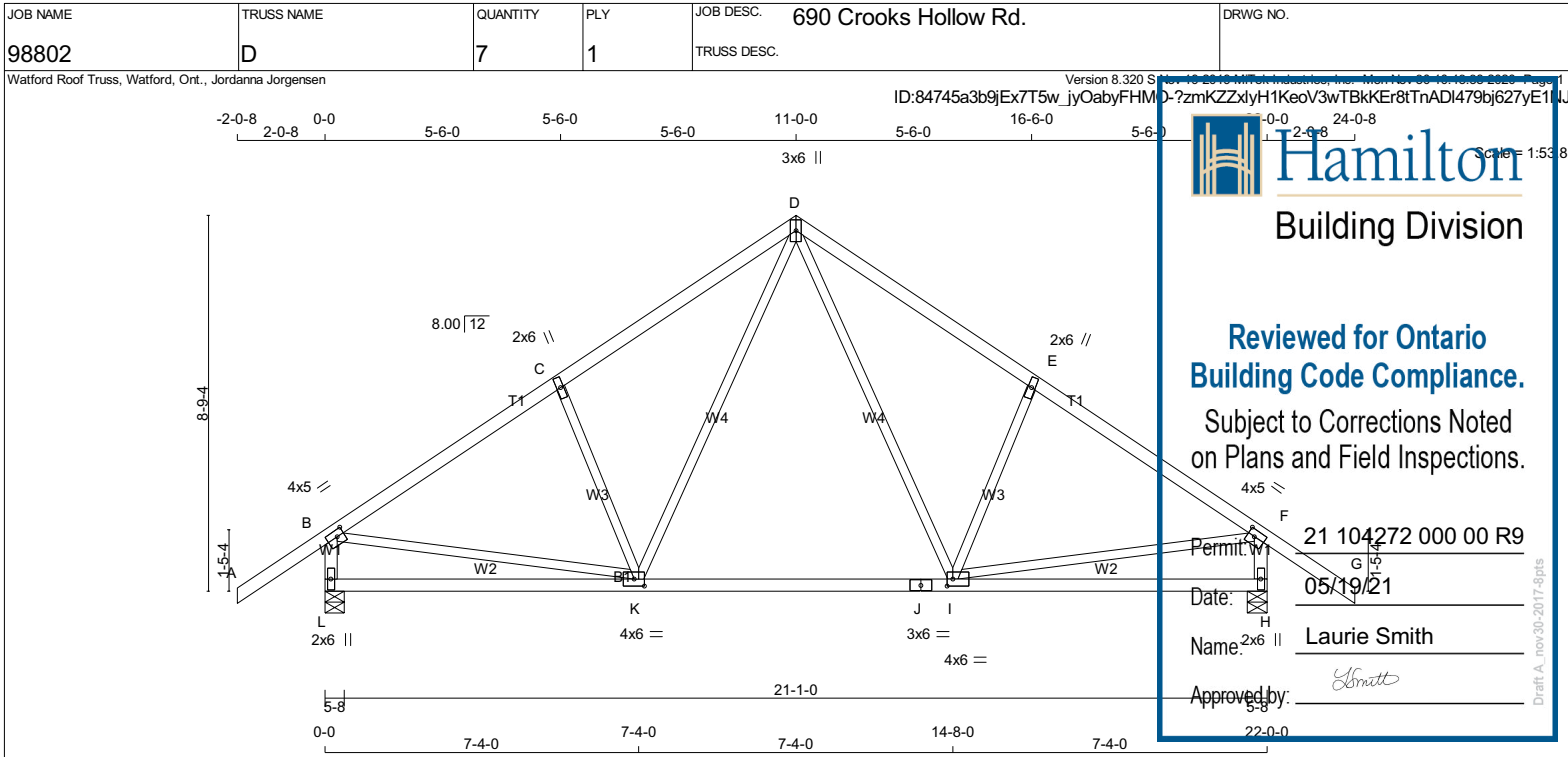
NAIL VALUES

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

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

JSI GRIP= 0.39 (G) (INPUT = 0.90)
 JSI METAL= 0.11 (B) (INPUT = 1.00)

TOTAL WEIGHT = 2 X 97 = 194 lb



Reviewed for Ontario Building Code Compliance.
 Subject to Corrections Noted on Plans and Field Inspections.

Permit No. 21 104272 000 00 R9
 Date: 05/19/21
 Name: Laurie Smith
 Approved by: *[Signature]*

TOTAL WEIGHT = 7 X 97 = 681 lb

LUMBER
 N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
B	TMW-t	MT20	4.0	5.0	1.75 2.00
C	TMW+w	MT20	2.0	6.0	
D	TTW+p	MT20	3.0	6.0	
E	TMW+w	MT20	2.0	6.0	
F	TMW-t	MT20	4.0	5.0	1.75 2.00
H	BMV1+p	MT20	2.0	6.0	
I	BMWVV-t	MT20	4.0	6.0	2.00 1.50
J	BS-t	MT20	3.0	6.0	
K	BMWVV-t	MT20	4.0	6.0	2.00 3.00
L	BMV1+p	MT20	2.0	6.0	

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	FACTORED GROSS REACTION HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	FACTORED GROSS REACTION HORZ UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX
L	1397	0	1397	0	5-8	5-8
H	1397	0	1397	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM LIVE	WIND	DEAD	SOIL
L	983	671 / 0	0 / 0	0 / 0	0 / 0	311 / 0	0 / 0
H	983	671 / 0	0 / 0	0 / 0	0 / 0	311 / 0	0 / 0

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

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.10 FT.
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
 TOTAL LOAD CASES: (4)

FR-TO	C H O R D S				W E B S			
	MEMB.	MAX. FORCE (LBS)	FACTORED (PLF)	VERT. LOAD (LC1)	MAX. UNBRAC LENGTH	MEMB.	MAX. FORCE (LBS)	FACTORED (LC)
A-B	0 / 54	-91.8	-91.8	0.29 (1)	10.00	D-I	0 / 498	0.11 (1)
B-C	-1377 / 0	-91.8	-91.8	0.39 (1)	5.10	I-E	-532 / 0	0.23 (1)
C-D	-1209 / 0	-91.8	-91.8	0.38 (1)	5.36	K-D	0 / 498	0.11 (1)
D-E	-1209 / 0	-91.8	-91.8	0.38 (1)	5.36	C-K	-532 / 0	0.23 (1)
E-F	-1377 / 0	-91.8	-91.8	0.39 (1)	5.10	B-K	0 / 1188	0.27 (1)
F-G	0 / 54	-91.8	-91.8	0.29 (1)	10.00	I-F	0 / 1188	0.27 (1)
L-B	-1345 / 0	0.0	0.0	0.14 (1)	6.99			
H-F	-1345 / 0	0.0	0.0	0.14 (1)	6.99			
L-K	0 / 0	-17.5	-17.5	0.22 (4)	10.00			
K-J	0 / 778	-17.5	-17.5	0.28 (4)	10.00			
J-I	0 / 778	-17.5	-17.5	0.28 (4)	10.00			
I-H	0 / 0	-17.5	-17.5	0.22 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH LL = 25.6 PSF
 DL = 6.0 PSF
 BOT CH LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 38.6 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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)
 EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
 CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
 ALLOWABLE DEFL.(TL)= L/360 (0.73")
 CALCULATED VERT. DEFL.(TL)= L/999 (0.10")

CSI: TC=0.39/1.00 (B-C-1), BC=0.28/1.00 (I-K-4),
 WB=0.27/1.00 (F-I-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
 AUTOSOLVE HEELS OFF

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

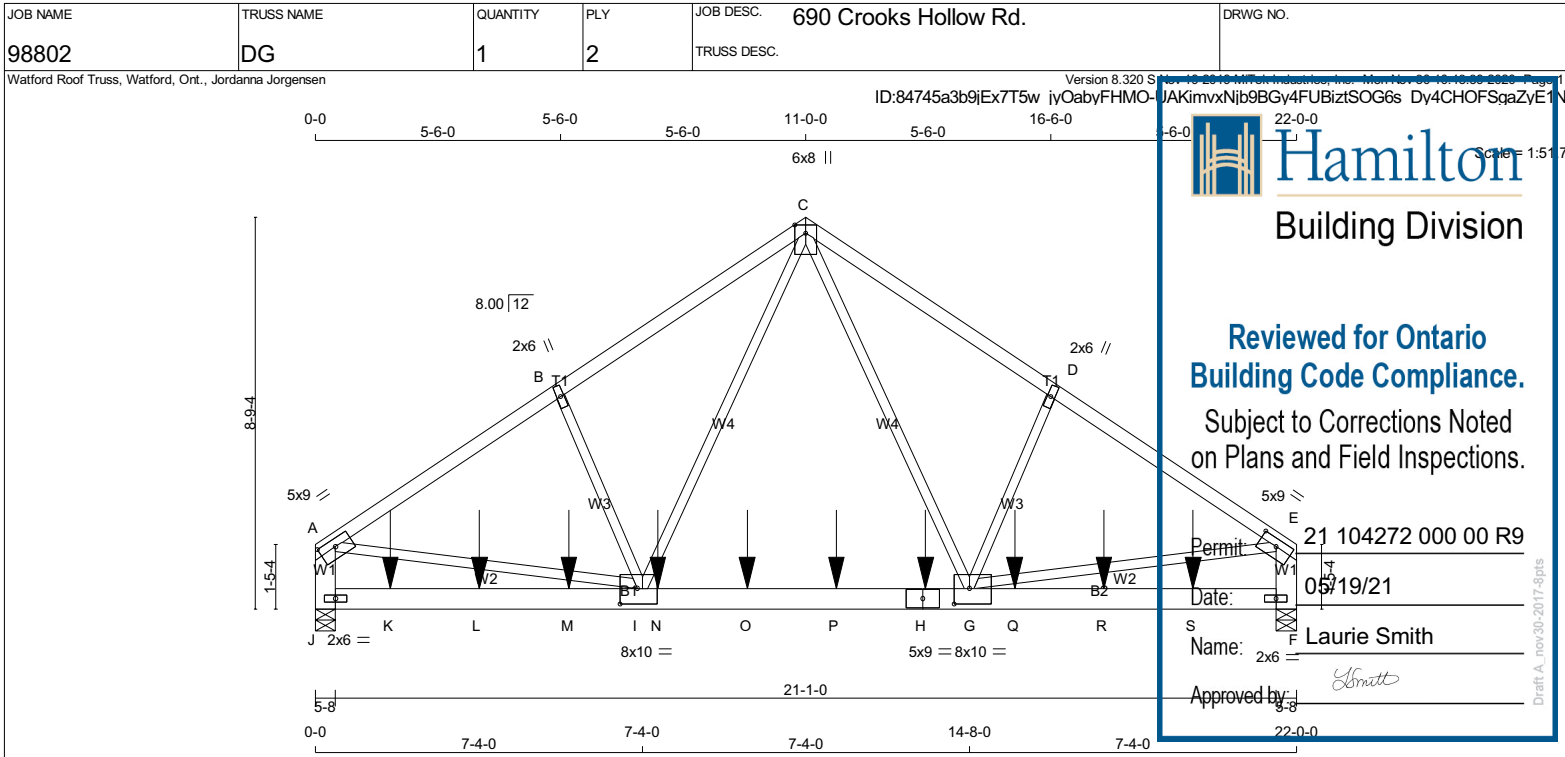
NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (B) (INPUT = 0.90)
 JSI METAL = 0.44 (F) (INPUT = 1.00)



Reviewed for Ontario Building Code Compliance.
Subject to Corrections Noted on Plans and Field Inspections.

Permit No: 21 104272 000 00 R9
Date: 05/19/21
Name: Laurie Smith
Approved by: *L. Smith*

TOTAL WEIGHT = 2 X 106 = 213 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY No.2	SPF
C - E	2x4	DRY No.2	SPF
J - A	2x6	DRY No.2	SPF
F - E	2x6	DRY No.2	SPF
H - H	2x6	DRY 1650F 1.5E	SPF
H - F	2x6	DRY 1650F 1.5E	SPF

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

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

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

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.
TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLYS FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

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

PLATES (table is in inches)

JT TYPE	PLATES	W	LEN	Y	X
A	TMWw	MT20	5.0	9.0	2.00 4.50
B	TMWw	MT20	2.0	6.0	
C	TTWw+p	MT20	6.0	8.0	Edge
D	TMWw	MT20	2.0	6.0	
E	TMWw-t	MT20	5.0	9.0	2.00 4.50
F	BVM1-t	MT20	2.0	6.0	
G	BMWWW-t	MT20	8.0	10.0	4.25 4.00

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

BEARINGS

	FACTORED GROSS REACTION	MAXIMUM GROSS REACTION	FACTORED INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	UP
J	6517	0	6517	0
F	6218	0	6218	0

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM	LIVE	WIND	DEAD	SOIL
J	4577	3184	0	0	0	0	1393	0
F	4367	3036	0	0	0	0	1331	0

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

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.

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB. UNBRAC	MAX. FORCE (LBS)	FACTORED MAX (LC)	
FR-TO		FROM	TO	LENGTH	FR-TO		
A-B	-7546 / 0	-91.8	-91.8	0.61 (1)	3.23	C-G	0 / 4162 0.52 (1)
B-C	-7371 / 0	-91.8	-91.8	0.61 (1)	3.28	G-D	-511 / 0 0.11 (1)
C-D	-7320 / 0	-91.8	-91.8	0.61 (1)	3.29	I-C	0 / 4265 0.53 (1)
D-E	-7496 / 0	-91.8	-91.8	0.60 (1)	3.25	B-I	-511 / 0 0.11 (1)
J-A	-5294 / 0	0.0	0.0	0.20 (1)	6.36	A-I	0 / 6364 0.79 (1)
F-E	-5260 / 0	0.0	0.0	0.20 (1)	6.37	G-E	0 / 6322 0.78 (1)
J-K	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
K-L	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
L-M	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
M-I	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
I-N	0 / 4381	-17.5	-17.5	0.87 (1)	10.00		
N-O	0 / 4381	-17.5	-17.5	0.87 (1)	10.00		
O-P	0 / 4381	-17.5	-17.5	0.87 (1)	10.00		
P-H	0 / 4381	-17.5	-17.5	0.87 (1)	10.00		
H-G	0 / 4381	-17.5	-17.5	0.87 (1)	10.00		
G-Q	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
Q-R	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
R-S	0 / 0	-17.5	-17.5	0.69 (1)	10.00		
S-F	0 / 0	-17.5	-17.5	0.69 (1)	10.00		

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
H	13-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
K	1-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
L	3-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
M	5-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
N	7-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
O	9-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
P	11-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
Q	15-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
R	17-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1
S	19-8-4	-1033	-1033	---	FRONT	VERT	TOTAL	---	C1

CONNECTION REQUIREMENTS

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

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 25.6 PSF
DL = 6.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 38.6 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

(55% OF 31.3 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 25.6 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.73")
CALCULATED VERT. DEFL.(LL)= L/999 (0.20")
ALLOWABLE DEFL.(TL)= L/360 (0.73")
CALCULATED VERT. DEFL.(TL)= L/741 (0.36")

CSI: TC=0.61/1.00 (B-C-1), BC=0.87/1.00 (G-I-1), WB=0.79/1.00 (A-I-1), SSI=0.77/1.00 (G-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

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (E) (INPUT = 0.90)
JSI METAL = 0.81 (H) (INPUT = 1.00)

JOB NAME 98802	TRUSS NAME DG	QUANTITY 1	PLY 2	JOB DESC. 690 Crooks Hollow Rd.	DRWG NO.
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Watford Roof Truss, Watford, Ont., Jordanna Jorgensen

Version 8.320 S

ID:84745a3b9jEx7T5w_jyOabyFHMO-~~JAKirvxNjb9BGy4FUBiztSOG6s_Dy4CHOFSgaZyE1N~~

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
H	BS-1	MT20	5.0	9.0		
I	BMWWW-1	MT20	8.0	10.0	4.25	4.50
J	BVM1-1	MT20	2.0	6.0		

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



**Reviewed for Ontario
Building Code Compliance.**

Subject to Corrections Noted
on Plans and Field Inspections.

Permit: 21 104272 000 00 R9

Date: 05/19/21

Name: Laurie Smith

Approved by: *Laurie Smith*

Draft A - Nov-30-2017-8.plt