JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
1200_OH (NEW)	20GT	1	1	Garage Trusses TRUSS DESC. 20' GARAGE TRUSS - 12" OH	**20GT**

Star Truss Systems, Winnipeg, MB R2G 4H3, Werner Latzkitsch

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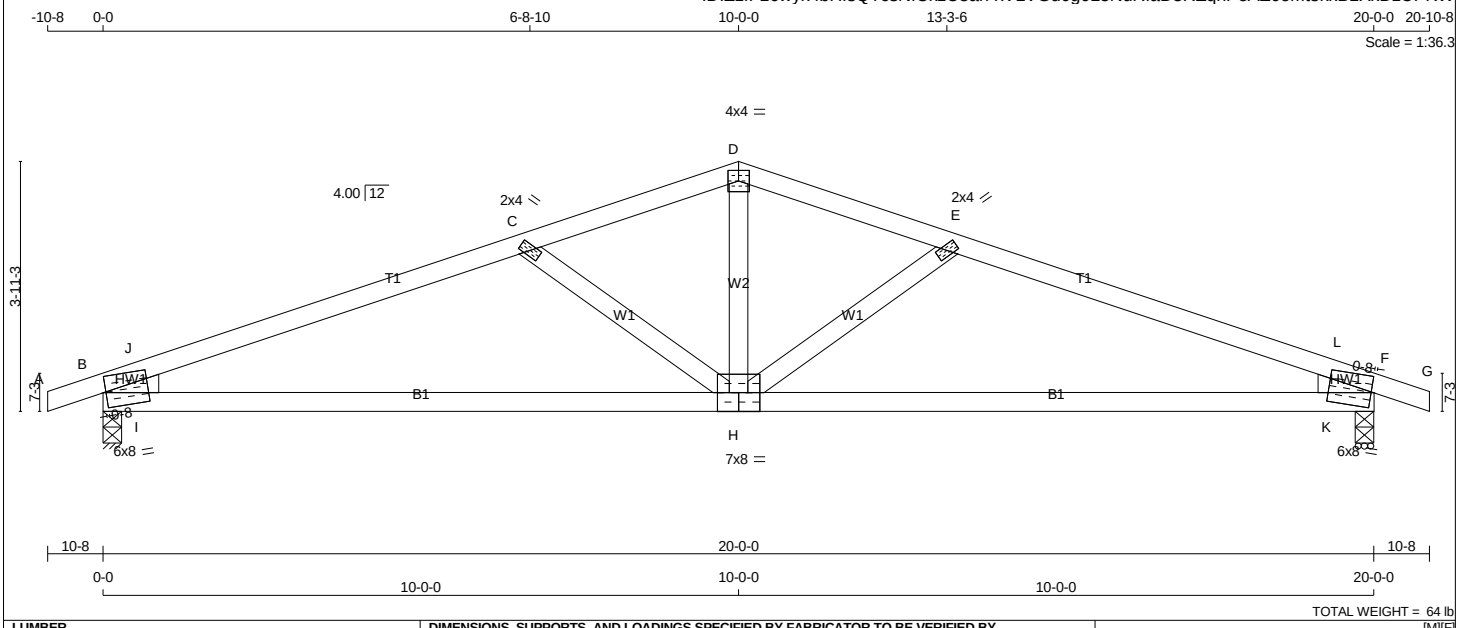

TOTAL WEIGHT = 64 lb

[M][F]

LUMBER

N. L. G. A. RULES

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

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMBMH1-m	MT20	6.0	8.0	3.00	0.50
C	TMW+w	MT20	2.0	4.0		
D	TTW-p	MT20	4.0	4.0		
E	TMW+w	MT20	2.0	4.0		
F	TMBMH1-m	MT20	6.0	8.0	3.00	0.50
H	BSWWW-l	MT20	7.0	8.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	HEEL WEDGE
B	1372	0	1372	0	0	3-8	3-8	2x4 L
F	1372	0	1372	0	0	3-8	3-8	2x4 R

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
B	949	744 / 0	0 / 0	0 / 0	0 / 0	206 / 0	0 / 0
F	949	744 / 0	0 / 0	0 / 0	0 / 0	206 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.86 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING

TOTAL LOAD CASES: (4)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC	MAX CSI (LC)	MAX UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
A- B	0 / 0	-109.6	-109.6	0.06 (1)	10.00		C- H	-659 / 0	0.14 (1)
B- J	-2654 / 0	-109.6	-109.6	0.39 (1)	3.86		H- D	0 / 968	0.16 (1)
J- C	-2437 / 0	-109.6	-109.6	0.45 (1)	4.00		H- E	-659 / 0	0.14 (1)
C- D	-1903 / 0	-109.6	-109.6	0.29 (1)	4.59		I- J	0 / 232	0.00 (1)
D- E	-1903 / 0	-109.6	-109.6	0.29 (1)	4.59		K- L	0 / 232	0.00 (1)
E- L	-2437 / 0	-109.6	-109.6	0.45 (1)	4.00				
L- F	-2654 / 0	-109.6	-109.6	0.39 (1)	3.86				
F- G	0 / 0	-109.6	-109.6	0.06 (1)	10.00				
B- I	0 / 2308	-17.5	-17.5	0.49 (1)	10.00				
I- H	0 / 2308	-17.5	-17.5	0.54 (1)	10.00				
H- K	0 / 2308	-17.5	-17.5	0.54 (1)	10.00				
K- F	0 / 2308	-17.5	-17.5	0.49 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	34.1	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	44.0	PSF

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 54.3 P.S.F. G.S.L. PLUS 4.2 P.S.F. RAIN LOAD) EQUALS 34.1 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.67")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.12")
ALLOWABLE DEFL.(TL)= L/360 (0.67")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.23")

CSI: TC=0.45/1.00 (E-L:1) , BC=0.54/1.00 (H-I:1) , WB=0.16/1.00 (D-H:1) , SSI=0.31/1.00 (F-L: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 = 0.50

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (D) (INPUT = 0.90)
JSI METAL= 0.47 (F) (INPUT = 1.00)

STAR TRUSS
1700 MOLSON STREET
WINNIPEG, MB R2G 4H3