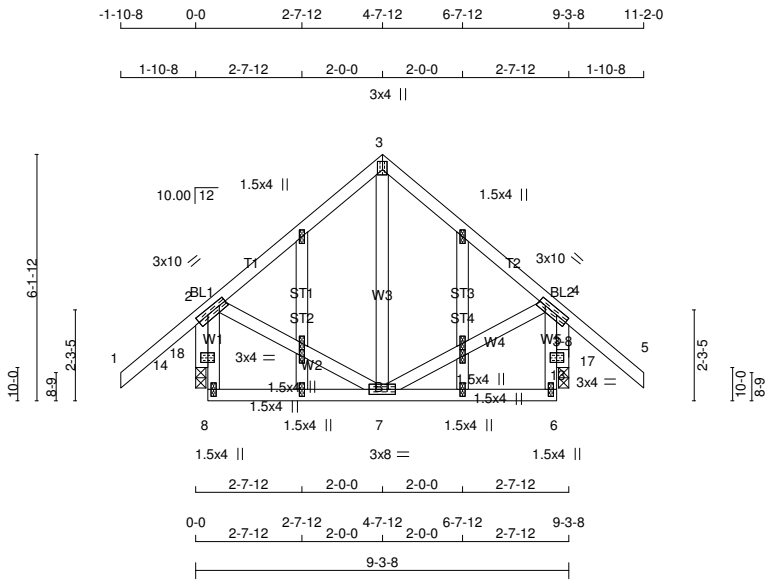
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
J17-2804-A	A01	1	1	TRUSS DESC.	



TOTAL WEIGHT = 63 lb

LUMBER
N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
BEARING BLOCKS				
BL2	2x4	DRY	No.2	SPF
BL1	2x4	DRY	No.2	SPF
ALL WEBS	2x4	DRY	No.2	SPF
ALL GABLE WEBS				
	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVWK1-t	MT20	3.0	10.0	1.50	3.25
3	TTW+p	MT20	3.0	4.0	2.50	1.50
4	TMVWK1-t	MT20	3.0	10.0	1.50	3.25
6	BMV+p	MT20	1.5	4.0		
7	BMWWW-t	MT20	3.0	8.0		
8	BMV+p	MT20	1.5	4.0		
9, 9, 10, 11, 12, 15, 16, 16						
9	NP+w	MT20	1.5	4.0		
13	KP-p	MT20	3.0	4.0		
14	KP-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	
18(2)	556	0	588	-524	-411	3-0	3-0	(** SEE "BEARING NOTE" **)
17(4)	556	0	588	0	-411	3-0	3-0	(** SEE "BEARING NOTE" **)

PROVIDE ANCHORAGE AT BEARING JOINT 2 FOR 411 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT 4 FOR 411 LBS FACTORED UPLIFT

PROVIDE FOR 524 LBS FACTORED HORIZONTAL REACTION AT JOINT 2

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX /MIN COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
18(2)	391	268 / 0	0 / 0	0 / 0	80 / -373	123 / 0	0 / 0
17(4)	391	268 / 0	0 / 0	0 / 0	80 / -373	123 / 0	0 / 0
HORIZONTAL REACTIONS							
18(2)	---	0 / 0	0 / 0	0 / 0	374 / -374	0 / 0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18(2), 17(4)

BRACING
MAX. UNBRACED TOP CHORD LENGTH = 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: (18)

CHORDS MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FR-TO	WEBS MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO					
1- 2	0 / 53	-72.9 -72.9	0.38 (13)	10.00	7- 3	-83 / 70	0.03 (14)
2- 3	-279 / 369	-72.8 -72.8	0.50 (13)	6.25	2- 7	-38 / 205	0.03 (13)
3- 4	-256 / 335	-72.9 -72.9	0.51 (14)	6.25	7- 4	-153 / 260	0.04 (12)
4- 5	0 / 53	-72.9 -72.9	0.38 (14)	10.00	2-18	-591 / 414	0.06 (1)
8-14	0 / 31	0.0 0.0	0.28 (11)	10.00	4-17	-591 / 414	0.06 (1)
14- 2	0 / 31	0.0 0.0	0.28 (11)	10.00	13-17	-46 / 65	0.00 (1)
6-13	0 / 31	0.0 0.0	0.04 (1)	10.00	14-18	-533 / 520	0.00 (1)
13- 4	0 / 31	0.0 0.0	0.04 (1)	10.00			
8- 7	-300 / 325	-17.0 -17.0	0.10 (18)	6.25			
7- 6	-34 / 59	-17.0 -17.0	0.10 (18)	6.25			

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

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF {14.2} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE {MAIN WIND FORCE RESISTING SYSTEM}.INTERNAL WIND PRESSURE IS BASED ON DESIGN {CATEGORY 2}. BUILDING MAY BE LOCATED ON {OPEN TERRAIN}, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY FROM EAVE.

[M]

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 20.9 PSF
DL = 5.0 PSF
BOT CH. LL = 0.0 PSF (*)
DL = 7.0 PSF
TOTAL LOAD = 32.9 PSF

SPACING = 23.3 IN. C/C

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(*)- BC LL SPECIFIED BY FABRICATOR, DOES NOT COMPLY WITH NBC TABLE 4.1.5.3. LOADING TO BE VERIFIED BY BUILDING DESIGNER

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED

(75 % OF 25.1 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/180 (0.58")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.51 (3-4:14) , BC=0.10 (6-7:18) , WB=0.06 (2-18:1) , SSI=0.23 (8-14:11)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.39 (8) (INPUT = 0.90)
JSI METAL= 0.28 (8) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
J17-2804-A	A02	1	1	TRUSS DESC.	

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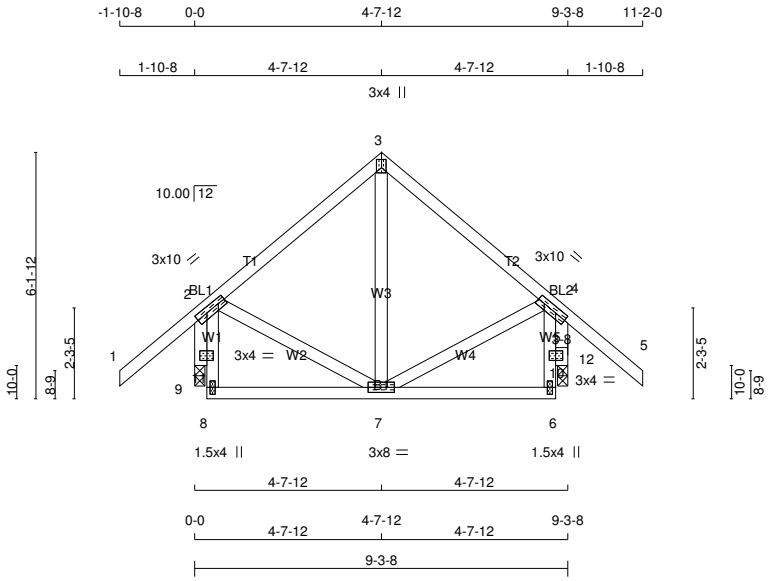

TOTAL WEIGHT = 54 lb

[M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 5	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 6	2x4	DRY	No.2	SPF
BEARING BLOCKS				
BL1	2x4	DRY	No.2	SPF
BL2	2x4	DRY	No.2	SPF
ALL WEBS	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVWK1-t	MT20	3.0	10.0	1.50	3.25
3	TTW+p	MT20	3.0	4.0	2.50	1.50
4	TMVWK1-t	MT20	3.0	10.0	1.50	3.25
6	BMV+p	MT20	1.5	4.0		
7	BMWWW-t	MT20	3.0	8.0		
8	BMV+p	MT20	1.5	4.0		
9	KP-p	MT20	3.0	4.0		
10	KP-p	MT20	3.0	4.0		

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

BEARINGS

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	
11(2)	574	0	607	-541	-425	3-0	3-0	(** SEE "BEARING NOTE" **)
12(4)	574	0	607	0	-425	3-0	3-0	(** SEE "BEARING NOTE" **)

PROVIDE ANCHORAGE AT BEARING JOINT 2 FOR 425 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT 4 FOR 425 LBS FACTORED UPLIFT

PROVIDE FOR 541 LBS FACTORED HORIZONTAL REACTION AT JOINT 2

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX /MIN COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11(2)	404	276 / 0	0 / 0	0 / 0	83 / -385	127 / 0	0 / 0
12(4)	404	276 / 0	0 / 0	0 / 0	83 / -385	127 / 0	0 / 0
HORIZONTAL REACTIONS							
11(2)	---	0 / 0	0 / 0	0 / 0	386 / -386	0 / 0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 11(2), 12(4)

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 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: (18)

CHORDS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF) FROM	TO	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	WEBS MEMB. FR-TO	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
1- 2	0 / 55	-75.2	-75.2	0.40 (13)	10.00	7- 3	-85 / 72	0.03 (14)
2- 3	-288 / 380	-75.2	-75.2	0.52 (13)	6.25	2- 7	-39 / 212	0.03 (13)
3- 4	-264 / 345	-75.2	-75.2	0.53 (14)	6.25	7- 4	-158 / 268	0.04 (12)
4- 5	0 / 55	-75.2	-75.2	0.40 (14)	10.00	2-11	-610 / 427	0.06 (1)
8- 9	0 / 32	0.0	0.0	0.28 (11)	10.00	4-12	-610 / 427	0.06 (1)
9- 2	0 / 32	0.0	0.0	0.28 (11)	10.00	9-11	-550 / 536	0.00 (1)
6-10	0 / 32	0.0	0.0	0.05 (1)	10.00	10-12	-47 / 68	0.00 (1)
10- 4	0 / 32	0.0	0.0	0.05 (1)	10.00			
8- 7	-309 / 336	-17.5	-17.5	0.10 (18)	6.25			
7- 6	-35 / 61	-17.5	-17.5	0.10 (18)	6.25			

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

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF {14.2} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE {MAIN WIND FORCE RESISTING SYSTEM}.INTERNAL WIND PRESSURE IS BASED ON DESIGN {CATEGORY 2}. BUILDING MAY BE LOCATED ON {OPEN TERRAIN}, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY FROM EAVE.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 20.9	PSF	
	DL	= 5.0	PSF	
BOT CH.	LL	= 0.0	PSF	(*)
	DL	= 7.0	PSF	
TOTAL LOAD		= 32.9	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(*)- BC LL SPECIFIED BY FABRICATOR, DOES NOT COMPLY WITH NBC TABLE 4.1.5.3. LOADING TO BE VERIFIED BY BUILDING DESIGNER

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED

(75 % OF 25.1 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.29")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.00")
ALLOWABLE DEFL.(TL)= L/180 (0.58")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.53 (3-4:14) , BC=0.10 (6-7:18) , WB=0.06 (2-11:1) , SSI=0.24 (8-9:11)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 0.50

AUTOSOLVE HEELS OFF

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

NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.40 (8) (INPUT = 0.90)
JSI METAL= 0.29 (8) (INPUT = 1.00)

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
J17-2804-A	B02	10	1	TRUSS DESC.	

StructuralTrussSystems, Fort Macleod, Brent Feyter

Version 8.120 S Jun 27 2017 MiTek Industries, Inc. Thu Aug 24 12:03:11 2017 Page 1

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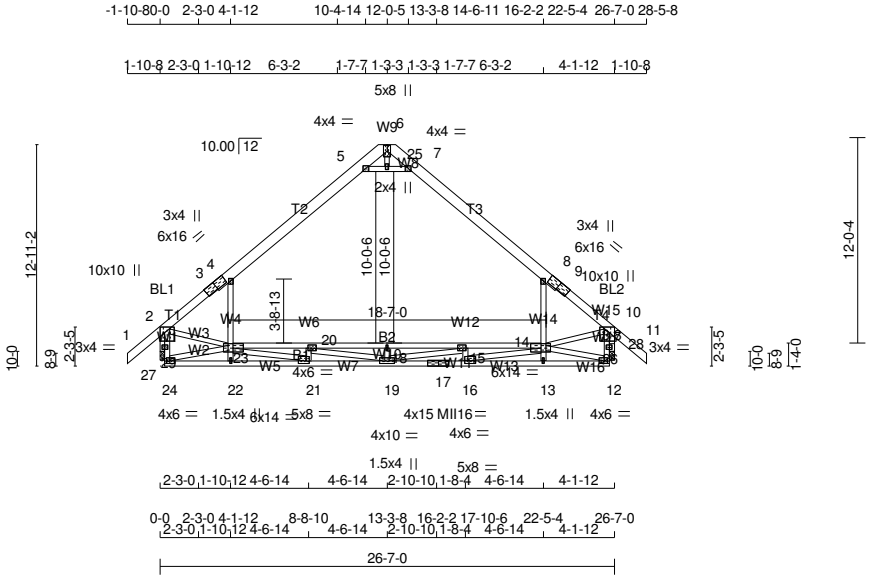

TOTAL WEIGHT = 10 X 197 = 1966 lb [M]

LUMBER

N. L. G. A. RULES

CHORDS	SIZE		LUMBER	DESCR.
1 - 3	2x6	DRY	2100F 1.8E	SPF
3 - 6	2x8	DRY	1950F 1.7E	SPF
6 - 9	2x8	DRY	1950F 1.7E	SPF
9 - 11	2x6	DRY	2100F 1.8E	SPF
24 - 2	2x4	DRY	No.2	SPF
12 - 10	2x4	DRY	No.2	SPF
24 - 17	2x4	DRY	2100F 1.8E	SPF
17 - 12	2x4	DRY	2100F 1.8E	SPF
23 - 14	2x4	DRY	2100F 1.8E	SPF
5 - 7	2x4	DRY	No.2	SPF
BEARING BLOCKS				
BL2	2x4	DRY	No.2	SPF
BL1	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

BEARING NOTE: GAP BETWEEN INSIDE OF TOP CHORD BEARING AND FIRST DIAGONAL OR VERTICAL WEB SHALL NOT EXCEED 0.5 INCHES.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVWK1+w	MT20	10.0	10.0	Edge	3.50
3	TS-t	MT20	6.0	16.0	Edge	8.00
4	TMW+w	MT20	3.0	4.0		
5	TMW+w	MT20	4.0	4.0	0.25	4.00
6	TMTMW+p	MT20	5.0	8.0		
7	TMW+w	MT20	4.0	4.0	0.25	4.00
8	TMW+w	MT20	3.0	4.0		
9	TS-t	MT20	6.0	16.0	Edge	8.00
10	TMVWK1+w	MT20	10.0	10.0	Edge	3.50
12	BMVW-t	MT20	4.0	6.0	1.75	2.25
13, 18, 22						
13	BMW+w	MT20	1.5	4.0		
14	BWMWWW*-I	MT20	6.0	14.0		
15	BMWW-t	MT20	4.0	6.0	2.00	2.50
16	BMWW-t	MT20	5.0	8.0	2.00	2.25
17	BS-t	MII16	4.0	15.0		
19	BMWWW-t	MT20	4.0	10.0	1.75	5.00
20	BMWW-t	MT20	4.0	6.0	2.00	2.50
21	BMWW-t	MT20	5.0	8.0	2.00	2.25
23	BWMWWW*-I	MT20	6.0	14.0		
24	BMVW-t	MT20	4.0	6.0	1.75	2.25
25	WMW+w	MT20	2.0	4.0		
26	KP-p	MT20	3.0	4.0		
27	KP-p	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

JT	FACTORED GROSS REACTION VERT	HORZ	MAXIMUM FACTORED GROSS REACTION DOWN	HORZ	UPLIFT	INPUT BRG IN-SX	REQRD BRG IN-SX	
29(2)	2475	0	2475	-975	-781	3-8	3-8	(** SEE "BEARING NOTE" **)
28(10)	2475	0	2475	0	-781	3-8	3-8	(** SEE "BEARING NOTE" **)

PROVIDE ANCHORAGE AT BEARING JOINT 2 FOR 781 LBS FACTORED UPLIFT
PROVIDE ANCHORAGE AT BEARING JOINT 10 FOR 781 LBS FACTORED UPLIFT

NOTE: ANCHORAGE REQUIRED FOR LARGE UPLIFT FORCES, SHALL BE PROVIDED BY BUILDG. DESIGNER

PROVIDE FOR 975 LBS FACTORED HORIZONTAL REACTION AT JOINT 2

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
29(2)	2001	640 / 0	746 / 0	0 / 0	297 / -954	615 / 0	0 / 0
28(10)	2001	640 / 0	746 / 0	0 / 0	297 / -954	615 / 0	0 / 0
HORIZONTAL REACTIONS							
29(2)	---	0 / 0	0 / 0	0 / 0	696 / -696	0 / 0	0 /0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 29(2), 28(10)

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 5.86 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 2.98 FT. OR RIGID CEILING DIRECTLY APPLIED.

MAX. UNBRACED INTERIOR CHORD LENGTH = 4.28 FT. OR RIGID SHEATHING TO ATTIC FLOOR AND CEILING.

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

LOADING

TOTAL LOAD CASES: (18)

CHORDS MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX CSI (LC)	MAX. UNBRAC LENGTH
FR-TO		FROM TO			
1- 2	0 / 56	-75.2 -75.2	0.11 (13)	10.00	
2- 3	-1819 / 522	-75.2 -75.2	0.68 (6)	5.86	
3- 4	-1819 / 522	-75.2 -75.2	0.68 (6)	5.86	
4- 5	-1217 / 801	-87.7 -87.7	0.52 (6)	6.25	
5- 6	-461 / 1098	-75.2 -75.2	0.54 (4)	6.25	
6- 7	-471 / 1104	-75.2 -75.2	0.54 (4)	6.25	
7- 8	-1217 / 796	-87.7 -87.7	0.52 (5)	6.25	
8- 9	-1819 / 510	-75.2 -75.2	0.68 (5)	5.86	
9-10	-1819 / 510	-75.2 -75.2	0.68 (5)	5.86	
10-11	0 / 56	-75.2 -75.2	0.11 (14)	10.00	
24-27	-531 / 545	0.0 0.0	0.55 (11)	7.81	
27- 2	-531 / 545	0.0 0.0	0.55 (11)	7.81	
12-26	-567 / 545	0.0 0.0	0.24 (3)	7.81	
26-10	-567 / 545	0.0 0.0	0.24 (3)	7.81	
24-22	-2191 / 2018	-17.5 -17.5	0.22 (5)	5.45	
22-21	-2233 / 2086	-17.5 -17.5	0.26 (5)	5.41	
21-19	-860 / 6851	-17.5 -17.5	0.65 (4)	6.25	
19-17	-637 / 6733	-17.5 -17.5	0.65 (4)	6.25	
17-16	-637 / 6733	-17.5 -17.5	0.65 (4)	6.25	
16-13	-2013 / 2086	-17.5 -17.5	0.26 (6)	5.63	
13-12	-1971 / 2018	-17.5 -17.5	0.22 (6)	5.68	
23-20	-5866 / 785	-105.0 -105.0	0.50 (5)	3.31	
20-18	-7415 / 321	-105.0 -105.0	0.51 (4)	2.98	
18-15	-7415 / 321	-105.0 -105.0	0.51 (4)	2.98	
15-14	-6022 / 1080	-105.0 -105.0	0.50 (6)	3.31	
5-25	-2476 / 1485	-12.5 -12.5	0.23 (14)	4.28	
25- 7	-2476 / 1485	-12.5 -12.5	0.23 (14)	4.28	

WEBS MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
13-14	0 / 174	0.09 (14)
14- 8	-233 / 1100	0.21 (5)
22-23	0 / 175	0.09 (2)
23- 4	-239 / 1106	0.21 (6)
25- 6	-10 / 79	0.01 (4)
23-21	0 / 5390	0.85 (6)
21-20	-1149 / 0	0.11 (6)
20-19	-373 / 1826	0.28 (6)
19-18	-615 / 0	0.06 (4)
19-15	-394 / 1832	0.28 (5)
16-15	-1150 / 0	0.11 (5)
16-14	0 / 5391	0.85 (5)
14-10	-276 / 1053	0.17 (1)
14-12	-1931 / 2059	0.35 (3)
2-23	0 / 1053	0.17 (1)
24-23	-1931 / 1923	0.35 (2)
2-29	-2489 / 786	0.27 (1)
10-28	-2489 / 786	0.27 (1)
26-28	-82 / 260	0.00 (1)
27-29	-977 / 992	0.00 (1)

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

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF {14.2} PSF AT {40-0-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CpCg, BASED ON THE {MAIN WIND FORCE RESISTING SYSTEM}.INTERNAL WIND PRESSURE IS BASED ON DESIGN {CATEGORY 2}. BUILDING MAY BE LOCATED ON {OPEN TERRAIN}, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST {0-0} FT-IN-SX AWAY FROM EAVE.

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	= 20.9	PSF	
	DL	= 5.0	PSF	
BOT CH.	LL	= 0.0	PSF	(*)
	DL	= 7.0	PSF	
TOTAL LOAD		= 32.9	PSF	
ATTIC FLOOR		= 40.0	PSF	
	DL	= 10.0	PSF	
CEILING	DL	= 5.0	PSF	

SPACING = 24.0 IN. C/C

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2010

THIS DESIGN COMPLIES WITH:
- PART 4 OF OBC 2012 , BCBC 2012 , ABC 2014
- CSA 086-09
- TPIC 2011

(*)- BC LL SPECIFIED BY FABRICATOR, DOES NOT COMPLY WITH NBC TABLE 4.1.5.3. LOADING TO BE VERIFIED BY BUILDING DESIGNER

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR USED

(75 % OF 25.1 P.S.F. G.S.L. PLUS 2.1 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 20.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.87")
CALCULATED VERT. DEFL.(LL) = L/ 411 (0.76")
ALLOWABLE DEFL.(TL)= L/180 (1.73")
CALCULATED VERT. DEFL.(TL) = L/ 287 (1.09")

CSI: TC=0.68 (8-10:5) , BC=0.65 (16-19:4) , WB=0.85 (21-23:6) , SSI=0.53 (5-6:4)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00
WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE HEELS OFF

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

NAIL VALUES

PLATE	GRIP(DRY) (PSI) MAX	MIN	SHEAR (PLI) MAX	MIN	SECTION (PLI) MAX	MIN
MT20	618	354	1667	822	2284	1656
MII16	473	276	2341	1245	4454	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (7) (INPUT = 0.90)
JSI METAL= 0.99 (21) (INPUT = 1.00)