



KOTT

THIS CERTIFICATION IS FOR THE ENGINEERING REVIEW OF STRUCTURAL COMPONENTS SHOWN ON THIS DRAWING AND IS LIMITED TO THE COMPONENTS SUPPLIED BY KOTT LUMBER FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE OF EACH COMPONENT. THE PLACEMENT OF THESE COMPONENTS ON THIS LAYOUT IS SHOWN FOR REFERENCE ONLY. ROOF TRUSSES MUST BE INSTALLED ACCORDING TO MANUFACTURER'S GUIDELINES AT 24" C/C UNLESS NOTED OTHERWISE. CONVENTIONAL FRAMING SHOWN ON THE LAYOUT MUST BE DESIGNED AND APPROVED BY THE PROJECT ENGINEER. TEMPORARY AND PERMANENT BRACINGS OF THE ROOF AND BUILDING ARE THE RESPONSIBILITY OF THE PROJECT ENGINEER AND TO CONFORM TO BCSI GUIDELINES.

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.

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF

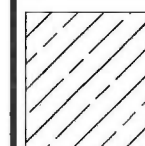
SPACING = 24" O/C.

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

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 X HGUS26-2



CONVENTIONAL FRAMING BY OTHERS

SIZE AND LOCATION OF CONVENTIONAL FRAMING IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN. REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE O.B.C.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES TO BE 2x4 S.P.F. @ 24" O/C WITH A 2x4 VERTICAL POST TO THE TRUSS UNDERNEATH EACH CROSS POINT. VERTICAL POST LONGER THAN 6' TO HAVE LATERAL BRACING SO THAT THE DISTANCE BETWEEN END POINT AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'. *ROOF TRUSSES*

18-4109560000RR

LOT 1

Model: **GRANDBROOKE 12 EL 2**

Customer: GREENPARK

Project: MINNISALE HOMES

Location: BRAMPTON

Date: 6/21/2018 Drawn by: BB

For conventional framing roof/ceilings framing shall conform to OBC.9.23

All work shall conform to the Ontario Building Code O. Reg. 332/12 as amended

CITY OF BRAMPTON
BUILDING DIVISION
REVIEWED
JAN 07 2019
BY
MARK DERKSEN

Architectural Drawing Info:
Date: JULY, 2018
Project number:
Model: GRANDBROOKE 12

ENGINEERING NOTE PAGE (ENP-1)
PLEASE READ PRIOR TO INSTALLATION

NE0818-083

GREENPARK-MINNISALE HOMES-
GRANDBROOKE 12 EL 2

Lot 1

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY THE DESIGN OFFICE OF KOTT LUMBER. 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 LUMBER 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.



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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.

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3 PSF
BOT CH. LL = 0 PSF
DL = 7 PSF
TOTAL LOAD = 33.3 PSF
SPACING = 24" O.C.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF NBC 2012, BCBC 2012, ABC 2014
- CSA S16-09
- TPIC 2011

HANGER LEGEND:

▼ LUS24 ■ LJS26DS
● HGUS26 ✕ HGUS26-2



CONVENTIONAL FRAMING BY OTHERS

SIZE AND LOCATION OF CONVENTIONAL FRAMING
IS APPROXIMATE. ALL AREAS MAY NOT BE SHOWN.
REFER TO ARCHITECTURAL PLANS FOR DETAILS.

ALL CONVENTIONAL FRAMING TO CONFORM WITH
PART 9 OF THE O.B.C.
ROOF RAFTERS THAT CROSS MEET OVER TRUSSES
TO BE 2x4 S.P.F. @ 24" O.C WITH A 2x4 VERTICAL
POST TO THE TRUSS UNDERNEATH EACH CROSS
POINT. VERTICAL POST LONGER THAN 6' TO HAVE
LATERAL BRACING SO THAT THE DISTANCE BETWEEN
END POINT AND BETWEEN ROWS OF BRACING
DOES NOT EXCEED 6'.

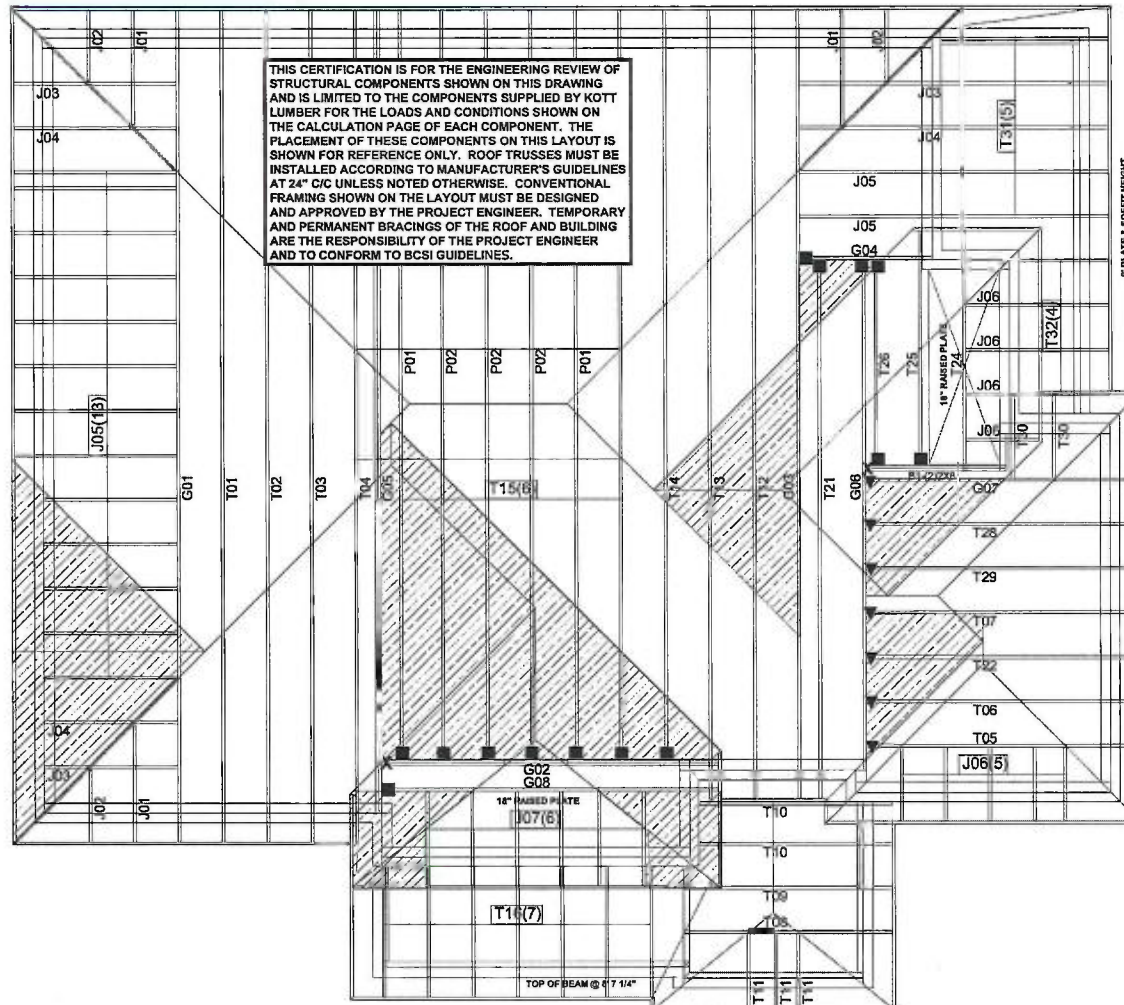
Model: **GRANDBROOKE 12 EL 2**

Customer: **GREENPARK**

Project: **MINNISALE HOMES**

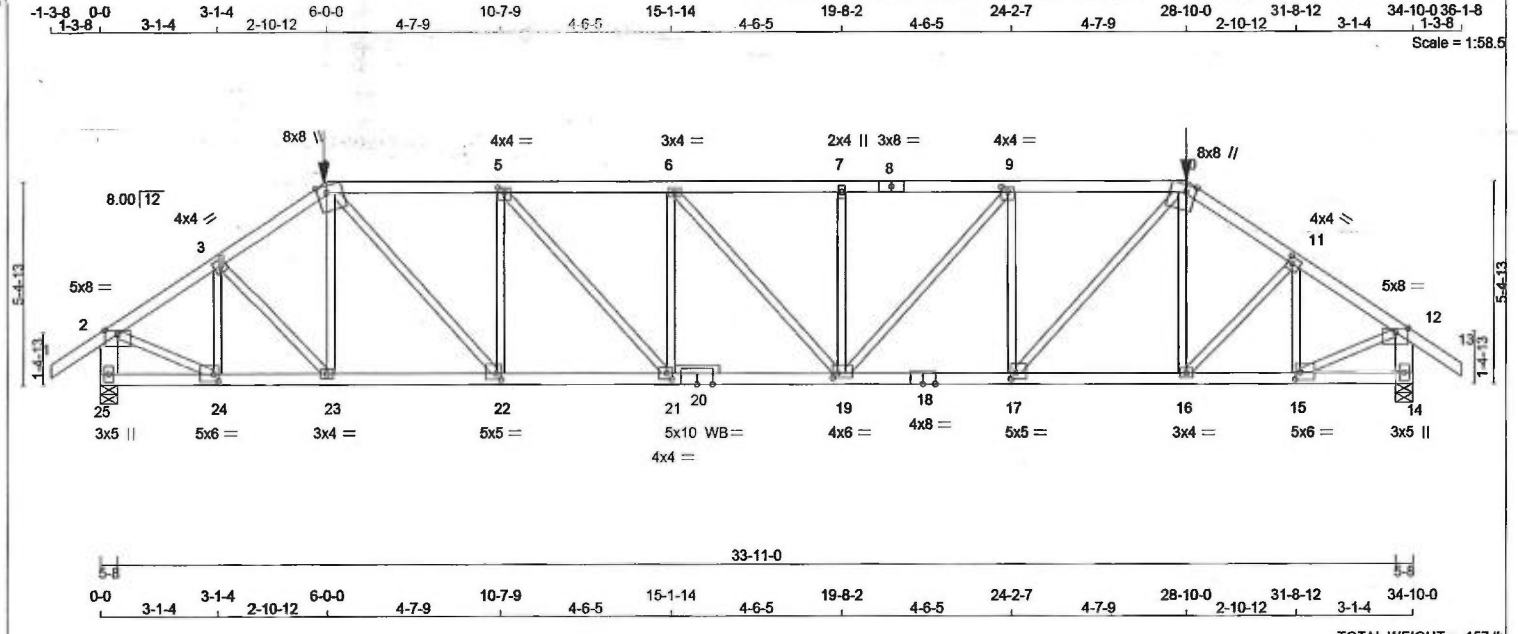
Location: **BRAMPTON**

Date: **6/21/2018** Drawn by: **BB**



Architectural Drawing Info:
Date: JULY, 2018
Project number:
Model: GRANDBROOKE 12

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 17:14:40 2018 Page 1
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-0XX6DgGn9IZ0av3MI3WhnXPgNYRN1x2eHDuddPynYez



LUMBER				DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER				DESIGN CRITERIA			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.	BEARINGS	FACTORED	MAXIMUM FACTORED	INPUT	REGRD	SPECIFIED LOADS:	SPACING =	
1 - 4	2x4	DRY	2100F 1.8E	SPF	GROSS REACTION	GROSS REACTION	BRG	BRG	TOP CH. LL = 23.3 PSF	24.0	IN. C/C
4 - 8	2x4	DRY	2100F 1.8E	SPF	JT VERT	DOWN	UPLIFT	IN-SX	DL = 3.0 PSF		
8 - 10	2x4	DRY	2100F 1.8E	SPF	25 3158 0	3158 0	0	5-8	BOT CH. LL = 0.0 PSF		
10 - 13	2x4	DRY	2100F 1.8E	SPF	14 3158 0	3158 0	0	5-8	DL = 7.0 PSF		
25 - 2	2x6	DRY	No.2	SPF					TOTAL LOAD = 33.3 PSF		
14 - 12	2x6	DRY	No.2	SPF							
25 - 20	2x4	DRY	2100F 1.8E	SPF							
20 - 18	2x4	DRY	2100F 1.8E	SPF							
18 - 14	2x4	DRY	2100F 1.8E	SPF							
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF							

DRY: SEASONED LUMBER.

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.34 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.

3	TMWW-l	MT20	4.0	4.0	2.00	1.50
4	TTWW+m	MT20	8.0	8.0	Edge	3.00
5	TMWW-l	MT20	4.0	4.0	1.50	2.00
6	TMWW-l	MT20	3.0	4.0		
7	TMW+w	MT20	2.0	4.0		
8	TS-l	MT20	3.0	8.0		
9	TMWW-l	MT20	4.0	4.0	1.50	2.00
10	TTWW+m	MT20	8.0	8.0	Edge	3.00
11	TMWW-l	MT20	4.0	4.0	2.00	1.50
12	TMVW-p	MT20	5.0	8.0	1.25	4.00
14	BMV1+p	MT20	3.0	5.0		
15	BMWW-l	MT20	5.0	6.0	2.25	1.50
16	BMWW-l	MT20	3.0	4.0		
17	BMWW-l	MT20	5.0	5.0	2.00	1.50
18	BS-l	MT20	4.0	8.0		
19	BMWWW-l	MT20	4.0	6.0	1.50	1.50
20	BS-l	MT20	5.0	10.0		
21	BMWW-l	MT20	4.0	4.0	2.00	1.50
22	BMWW-l	MT20	5.0	5.0	2.00	1.50
23	BMWW-l	MT20	3.0	4.0		
24	BMWW-l	MT20	5.0	6.0	2.25	1.50
25	BMV1+p	MT20	3.0	5.0		

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)		
FR-TO		FROM TO		LENGTH	FR-TO				
1-2	0/29	-77.4	-77.4 0.07 (1)	10.00	24-3	-917/0	0.20 (1)		
2-3	-3420/0	-77.4	-77.4 0.13 (1)	4.52	3-23	0/535	0.13 (1)		
3-4	-3892/0	-77.4	-77.4 0.13 (1)	4.28	23-4	-237/53	0.11 (1)		
4-5	-4735/0	-145.9	-145.9 0.46 (1)	3.60	4-22	0/2257	0.56 (1)		
5-6	-5436/0	-145.9	-145.9 0.51 (1)	3.34	22-5	-1524/0	0.69 (1)		
6-7	-5432/0	-145.9	-145.9 0.42 (1)	3.45	5-21	0/1056	0.26 (1)		
7-8	-5432/0	-145.9	-145.9 0.51 (1)	3.34	21-6	-641/0	0.29 (1)		
8-9	-5432/0	-145.9	-145.9 0.51 (1)	3.34	6-19	-5/0	0.00 (1)		
9-10	-4736/0	-145.9	-145.9 0.47 (1)	3.60	19-7	-638/0	0.29 (1)		
10-11	-3892/0	-77.4	-77.4 0.13 (1)	4.28	19-9	0/1050	0.26 (1)		
11-12	-3420/0	-77.4	-77.4 0.13 (1)	4.52	17-9	-1522/0	0.68 (1)		
12-13	0/29	-77.4	-77.4 0.07 (1)	10.00	17-10	0/2259	0.56 (1)		
25-2	-3104/0	0.0	0.0 0.23 (1)	5.95	16-10	-238/53	0.11 (1)		
14-12	-3104/0	0.0	0.0 0.23 (1)	5.95	16-11	0/535	0.13 (1)		
					15-11	-917/0	0.20 (1)		
					2-24	0/3021	0.75 (1)		
					15-12	0/3021	0.75 (1)		
25-24	0/0	-33.0	-33.0 0.05 (4)	10.00					
24-23	0/2853	-33.0	-33.0 0.29 (1)	10.00					
23-22	0/3217	-33.0	-33.0 0.32 (1)	10.00					
22-21	0/4735	-33.0	-33.0 0.44 (1)	10.00					
21-20	0/5436	-33.0	-33.0 0.50 (1)	10.00					
20-19	0/5436	-33.0	-33.0 0.50 (1)	10.00					
19-18	0/4736	-33.0	-33.0 0.44 (1)	10.00					
18-17	0/4736	-33.0	-33.0 0.44 (1)	10.00					
17-16	0/3217	-33.0	-33.0 0.32 (1)	10.00					
16-15	0/2853	-33.0	-33.0 0.29 (1)	10.00					
15-14	0/0	-33.0	-33.0 0.05 (4)	10.00					

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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.16")
 CALCULATED VERT. DEFL.(LL)= L/999 (0.25")
 ALLOWABLE DEFL.(TL)= L/360 (1.16")
 CALCULATED VERT. DEFL.(TL)= L/936 (0.45")

CSI: TC=0.51/1.00 (7-9:1), BC=0.50/1.00 (19-21:1)
 , WB=0.75/1.00 (12-15:1), SS=0.34/1.00 (9-10:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES
 PLATE GRIP(ORY) SHEAR SECTION
 (PSI) (PLI) (PLI)

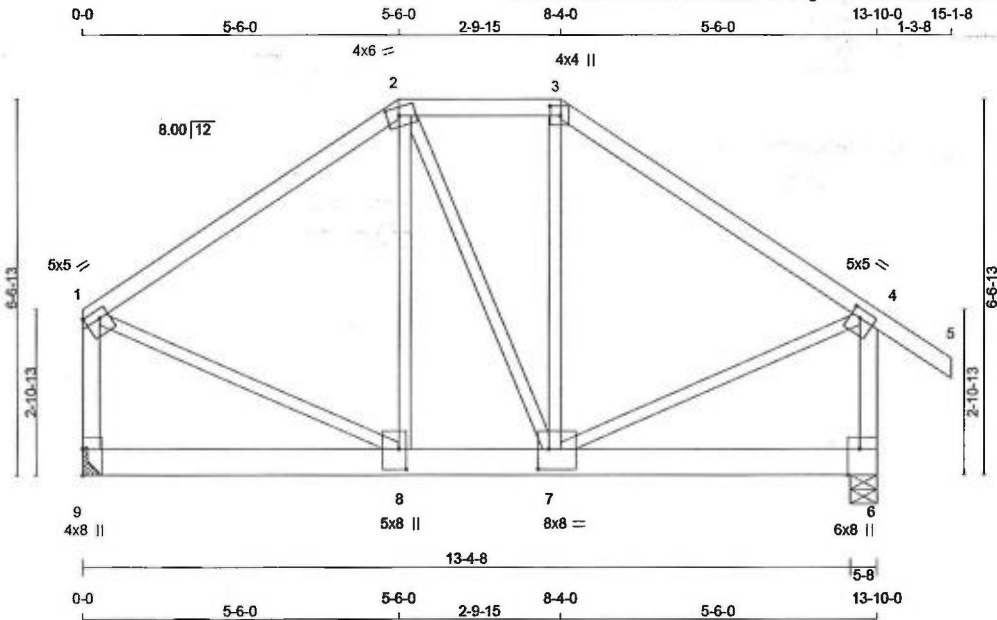
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
4	6-0-0	-348	-348		FRONT	VERT	TOTAL
10	28-10-0	-348	-348		FRONT	VERT	TOTAL

CONTINUED ON PAGE 2

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES EDGE OF CHORD. WB - INDICATES BLOCKING REQUIRED HANGERS NOTES 1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 348.1 lbs FACTORED DOWN AT 28-10-0, AND 348.1 lbs FACTORED DOWN AT 6-0-0 ON TOP CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.  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.	PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP= 0.90 (12) (INPUT = 0.90) JSI METAL= 0.96 (20) (INPUT = 1.00) 
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TOTAL WEIGHT = 2 X 74 = 149 lb
(M)

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
1 - 2	2x4	DRY	No.2
2 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
9 - 1	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2
9 - 6	2x6	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 SPACING (IN)	LOAD(PLF)
TOP CHORDS : (0.122"x3") SPIRAL NAILS		
1-2	12	TOP
2-3	12	TOP
3-5	12	TOP
9-1	12	TOP
6-4	12	TOP
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS		
9-6	6	SIDE(355.7)
WEBS : (0.122"x3") SPIRAL NAILS		
2x3	6	

NAILS TO BE DRIVEN FROM ONE SIDE ONLY.

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
1	TMVW-I	MT20	5.0	5.0	1.75	Edge

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX
9	5577	0	5577	0	MECHANICAL	
6	5683	0	5683	0	5-8	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 9 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. SNOW		LIVE		PERM.LIVE		WIND		DEAD		SOIL	
	9	6	9	6	9	6	9	6	9	6	9	6	9	6
9	3914	2738 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1176 / 0	0 / 0	0 / 0	0 / 0
6	3986	2802 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	0 / 0	1184 / 0	0 / 0	0 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.49 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	-3905 / 0	-77.4	-77.4 0.35 (1)	4.50	8-2	0 / 1801	0.22 (1)
2-3	-3297 / 0	-77.4	-77.4 0.09 (1)	5.06	2-7	0 / 53	0.01 (1)
3-4	-3930 / 0	-77.4	-77.4 0.35 (1)	4.49	7-3	0 / 1864	0.23 (1)
4-5	0 / 29	-77.4	-77.4 0.06 (1)	10.00	1-8	0 / 3552	0.44 (1)
9-1	-3830 / 0	0.0	0.0 0.29 (1)	6.03	7-4	0 / 3575	0.44 (1)
6-4	-3959 / 0	0.0	0.0 0.30 (1)	5.94			
9-8	0 / 0	-729.0	-729.0 0.77 (1)	10.00			
8-7	0 / 3275	-729.0	-729.0 0.87 (1)	10.00			
7-6	0 / 0	-729.0	-729.0 0.75 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN./C

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

GIRDER TYPE: CSldGirder
START DISTANCE = 0-0
START SPAN CARRIED = 32-5-8
END DISTANCE = 13-10-0
END SPAN CARRIED = 32-5-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55% OF GSL.

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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.46")
CALCULATED VERT. DEFL.(LL) = L/999 (0.11")
ALLOWABLE DEFL.(TL)= L/360 (0.46")
CALCULATED VERT. DEFL.(TL) = L/867 (0.19")

CSI: TC=0.35/1.00 (3-4:1), BC=0.87/1.00 (7-8:1),
WB=0.44/1.00 (4-7:1), SSI=0.78/1.00 (6-7:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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

NAIL VALUES

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

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
2	TTWW-m	MT20	4.0	6.0	1.75	2.50
3	TTW+p	MT20	4.0	4.0	2.00	2.25
4	TMVW-t	MT20	5.0	5.0	1.75	2.00
6	BMV1+t	MT20	6.0	8.0	Edge	2.50
7	BMWWW-t	MT20	8.0	8.0	4.25	2.25
8	BMWW+t	MT20	5.0	8.0	4.25	1.50
9	BMV1+t	MT20	4.0	8.0	5.50	

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

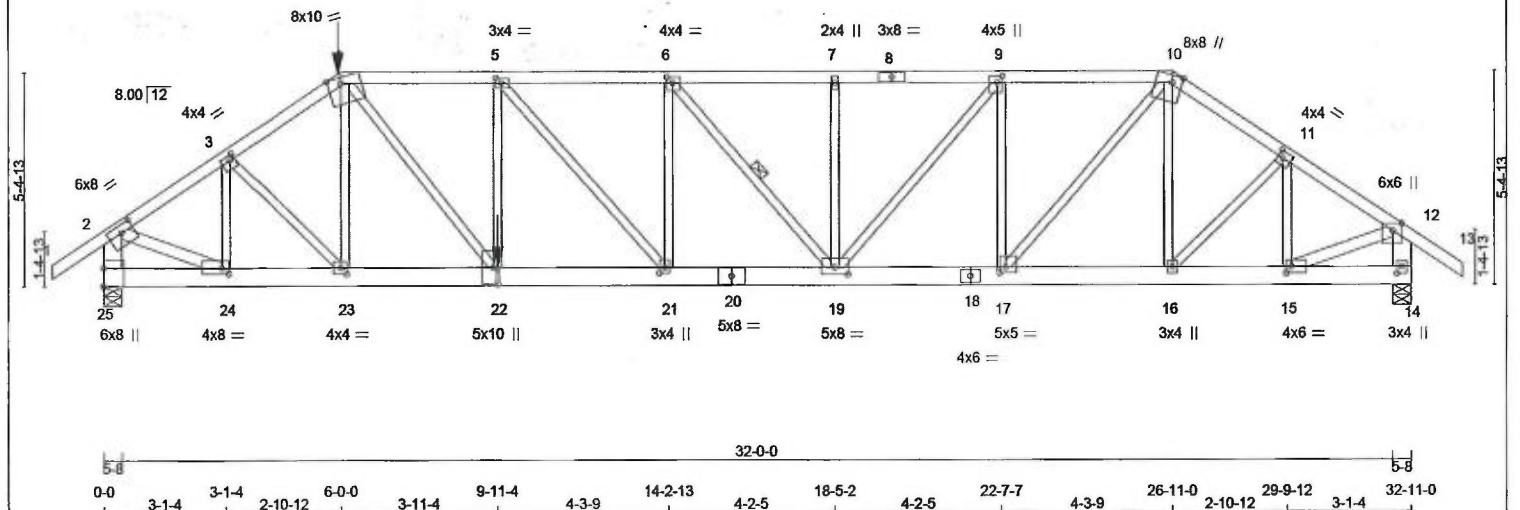
JSI GRIP= 0.89 (4) (INPUT = 0.90)
JSI METAL= 0.62 (4) (INPUT = 1.00)

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.

The logo for KOTT, featuring a stylized 'K' icon to the left of the word 'KOTT' in a bold, sans-serif font.

Version 8.210 S Mar 12 2018 MITek Industries, Inc. Wed Aug 15 17:14:42 2018 Page 1
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-zwseMI2hvpkqCDKPUY9syU?cL6WVpmxkWNkiHynYex

Scale = 1:55.5



LUMBER				N. L. G. A. RULES			
CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF	SPF	SPF
1 - 4	2x4	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
4 - 8	2x4	DRY	2100F 1.8E	SPF	SPF	SPF	SPF
8 - 10	2x4	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
10 - 13	2x4	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
25 - 2	2x6	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
14 - 12	2x6	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
25 - 20	2x6	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
20 - 18	2x6	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
18 - 14	2x6	DRY	No.2	2100F 1.8E	SPF	SPF	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF	SPF	SPF	SPF
2 - 24	2x4	DRY	No.2	SPF	SPF	SPF	SPF
15 - 12	2x4	DRY	No.2	SPF	SPF	SPF	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	6.0	8.0	2.25	3.75
3	TMWW-t	MT20	4.0	4.0	1.50	1.25
4	TTWW-m	MT20	8.0	10.0	Edge	4.00
5	TMWW-t	MT20	3.0	4.0	1.50	1.75
6	TMWW-t	MT20	4.0	4.0	1.75	1.75
7	TMW-w	MT20	2.0	4.0		
8	TS-t	MT20	3.0	8.0		
9	TMWW-t	MT20	4.0	5.0	2.00	1.50
10	TTWW-m	MT20	8.0	8.0	Edge	3.00
11	TMWW-t	MT20	4.0	4.0	2.00	1.50
12	TMVW-p	MT20	6.0	6.0	2.25	2.75
14	BMV1+p	MT20	3.0	4.0	2.25	1.50
15	BMWW-t	MT20	4.0	6.0	2.00	1.50
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	5.0	5.0	1.75	1.75
18	BS-t	MT20	4.0	6.0		
19	BMWWW-t	MT20	5.0	8.0	2.25	4.00
20	BS-t	MT20	5.0	8.0		
21	BMWW-t	MT20	3.0	4.0	1.75	1.50
22	BMWW-t	MT20	5.0	10.0	5.00	1.50
23	BMWW-t	MT20	4.0	4.0	2.00	1.75
24	BMWW-t	MT20	4.0	8.0	1.75	2.00
25	BMV1-t	MT20	6.0	8.0	5.50	



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				MAXIMUM FACTORED				INPUT				REQD			
JT	VERT	HORZ	GROSS REACTION	JT	VERT	HORZ	GROSS REACTION	JT	VERT	HORZ	GROSS REACTION	JT	VERT	HORZ	GROSS REACTION	JT	VERT	HORZ	GROSS REACTION
25	4309	0	4309	0	0	0	0	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8
14	2694	0	2694	0	0	0	0	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8	5-8

UNFACTORED REACTIONS				1ST LCASE				MAX./MIN. COMPONENT REACTIONS			
JT	COMBINED	SNOW	LIVE	JT	COMBINED	SNOW	LIVE	JT	COMBINED	SNOW	LIVE
25	3023	2117 / 0	0 / 0	25	3023	2117 / 0	0 / 0	25	3023	2117 / 0	0 / 0
14	1887	1337 / 0	0 / 0	14	1887	1337 / 0	0 / 0	14	1887	1337 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 25, 14

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.52 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 6-19. DBS = 20-0-0. CBF = 169 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

CHORDS				FACTORED				WEBS				FACTORED			
MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)	MEMB.	MAX. FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX (LC)
FR-TO				FR-TO				FR-TO				FR-TO			
1-2	0 / 29	-77.4	-77.4 0.11 (1)	10.00	24-3	-1363 / 0	0.28 (1)	1-2	0 / 29	-77.4	-77.4 0.11 (1)	10.00	24-3	-1363 / 0	0.28 (1)
2-3	-4853 / 0	-77.4	-77.4 0.44 (1)	2.84	3-23	-310 / 22	0.13 (1)	2-3	-4853 / 0	-77.4	-77.4 0.44 (1)	2.84	3-23	-310 / 22	0.13 (1)
3-4	-5649 / 0	-77.4	-77.4 0.53 (1)	2.52	4-5	-6822 / 0	0.86 (1)	3-4	-5649 / 0	-77.4	-77.4 0.53 (1)	2.52	4-5	-6822 / 0	0.86 (1)
4-5	-6822 / 0	-145.9	-145.9 0.49 (1)	3.01	5-6	-6344 / 0	0.04 (4)	4-5	-6822 / 0	-145.9	-145.9 0.49 (1)	3.01	5-6	-6344 / 0	0.04 (4)
5-6	-6344 / 0	-77.4	-77.4 0.38 (1)	3.27	6-7	-5477 / 0	0.58 (1)	5-6	-6344 / 0	-77.4	-77.4 0.38 (1)	3.27	6-7	-5477 / 0	0.58 (1)
6-7	-5477 / 0	-77.4	-77.4 0.27 (1)	3.59	7-8	-5477 / 0	0.18 (1)	6-7	-5477 / 0	-77.4	-77.4 0.27 (1)	3.59	7-8	-5477 / 0	0.18 (1)
7-8	-5477 / 0	-77.4	-77.4 0.30 (1)	3.56	8-9	-5477 / 0	0.41 (1)	7-8	-5477 / 0	-77.4	-77.4 0.30 (1)	3.56	8-9	-5477 / 0	0.41 (1)
8-9	-5477 / 0	-77.4	-77.4 0.30 (1)	3.56	9-10	-4324 / 0	0.13 (1)	8-9	-5477 / 0	-77.4	-77.4 0.30 (1)	3.56	9-10	-4324 / 0	0.13 (1)
9-10	-4324 / 0	-77.4	-77.4 0.24 (1)	4.00	10-11	-3358 / 0	0.45 (1)	9-10	-4324 / 0	-77.4	-77.4 0.24 (1)	4.00	10-11	-3358 / 0	0.45 (1)
10-11	-3358 / 0	-77.4	-77.4 0.26 (1)	3.59	11-12	-2945 / 0	0.73 (1)	10-11	-3358 / 0	-77.4	-77.4 0.26 (1)	3.59	11-12	-2945 / 0	0.73 (1)
11-12	-2945 / 0	-77.4	-77.4 0.23 (1)	3.85	12-13	0 / 29	0.59 (1)	11-12	-2945 / 0	-77.4	-77.4 0.23 (1)	3.85	12-13	0 / 29	0.59 (1)
12-13	0 / 29	-77.4	-77.4 0.11 (1)	10.00	13-14	-2635 / 0	0.08 (1)	12-13	0 / 29	-77.4	-77.4 0.11 (1)	10.00	13-14	-2635 / 0	0.08 (1)
13-14	-2635 / 0	0.0	0.0 0.30 (1)	5.20	14-12	0 / 0	0.11 (1)	13-14	-2635 / 0	0.0	0.0 0.30 (1)	5.20	14-12	0 / 0	0.11 (1)
14-12	0 / 0	0.0	0.0 0.19 (1)	6.36	15-11	0 / 0	0.17 (1)	14-12	0 / 0	0.0	0.0 0.19 (1)	6.36	15-11	0 / 0	0.17 (1)
15-11	0 / 0	-33.0	-33.0 0.06 (1)	10.00	16-11	0 / 0	0.75 (1)	15-11	0 / 0	-33.0	-33.0 0.06 (1)	10.00	16-11	0 / 0	0.75 (1)
16-11	0 / 0	-33.0	-33.0 0.28 (1)	10.00	17-16	0 / 2773	0.11 (1)	16-11	0 / 0	-33.0	-33.0 0.28 (1)	10.00	17-16	0 / 2773	0.11 (1)
17-16	0 / 2773	-33.0	-33.0 0.35 (1)	10.00	18-17	0 / 4324	0.13 (1)	17-16	0 / 2773	-33.0	-33.0 0.35 (1)	10.00	18-17	0 / 4324	0.13 (1)
18-17	0 / 4324	-17.5	-17.5 0.46 (1)	10.00	19-18	0 / 4324	0.13 (1)	18-17	0 / 4324	-17.5	-17.5 0.46 (1)	10.00	19-18	0 / 4324	0.13 (1)
19-18	0 / 4324	-17.5	-17.5 0.37 (1)	10.00	20-19	0 / 4324	0.13 (1)	19-18	0 / 4324	-17.5	-17.5 0.37 (1)	10.00	20-19	0 / 4324	0.13 (1)
20-19	0 / 4324	-17.5	-17.5 0.27 (1)	10.00	21-20	0 / 6344	0.13 (1)	20-19	0 / 4324	-17.5	-17.5 0.27 (1)	10.00	21-20	0 / 6344	0.13 (1)
21-20	0 / 6344	-17.5	-17.5 0.37 (1)	10.00	22-21	0 / 6822	0.13 (1)	21-20	0 / 6344	-17.5	-17.5 0.37 (1)	10.00	22-21	0 / 6822	0.13 (1)
22-21	0 / 6822	-17.5	-17.5 0.37 (1)	10.00	23-22	0 / 4674	0.13 (1)	22-21	0 / 6822	-17.5	-17.5 0.37 (1)	10.00	23-22	0 / 4674	0.13 (1)
23-22	0 / 4674	-17.5	-17.5 0.37 (1)	10.00	24-23	0 / 4046	0.13 (1)	23-22	0 / 4674	-17.5	-17.5 0.37 (1)	10.00	24-23	0 / 4046	0.13 (1)
24-23	0 / 4046	-17.5	-17.5 0.37 (1)	10.00	25-24	0 / 0	0.13 (1)	24-23	0 / 4046	-17.5	-17.5 0.37 (1)	10.00	25-24	0 / 0	0.13 (1)
25-24	0 / 0	-17.5	-17.5 0.04 (1)	10.00				25-24	0 / 0	-17.5	-17.5 0.04 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)				TYPE			
JT	LOC.	LC1	MAX-	JT	LOC.	LC1	MAX-
4	6-0-0	-348	-348	4	6-0-0	-348	-348
22	9-11-4	-2895	-2895	22	9-11-4	-2895	-2895

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 = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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.
LOADS APPLIED TO FIRST 9-11-4 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, NBCC 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.10")
CALCULATED VERT. DEFL.(LL)= L/999 (0.23")
ALLOWABLE DEFL.(TL)= L/360 (1.10")
CALCULATED VERT. DEFL.(TL)= L/963 (0.41")

CSI: TC=0.53/1.00 (3-4:1), BC=0.46/1.00 (21-22:1), WB=0.86/1.00 (4-22:1), SSI=0.28/1.00 (4-5:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

CONTINUED ON PAGE 2



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

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 348.1 lbs FACTORED DOWN AT 6-0-0
ON TOP CHORD, AND 2895.4 lbs FACTORED
DOWN AT 9-11-4 ON BOTTOM CHORD. DESIGN
FOR UNSPECIFIED CONNECTION(S) IS
DELEGATED TO THE BUILDING DESIGNER.

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	618 354	1667 822	2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

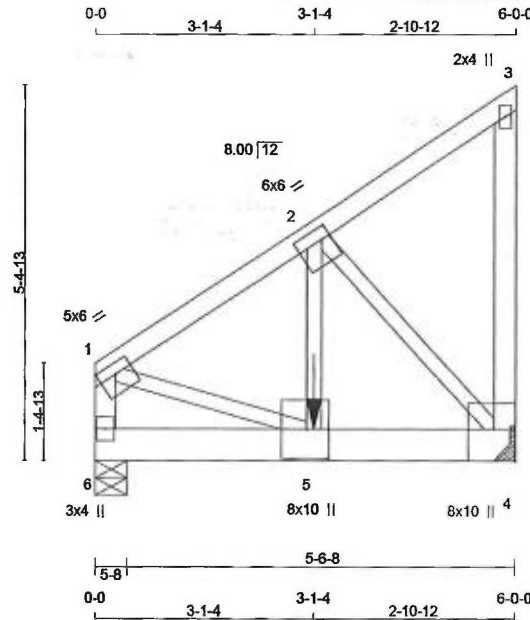
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (19) (INPUT = 0.90)

JSI METAL= 0.99 (20) (INPUT = 1.00)

**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 = 1:31.7

TOTAL WEIGHT = 33 lb [M]

LUMBER					
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.	
6 - 1	2x4	DRY	No.2	SPF	
1 - 3	2x4	DRY	No.2	SPF	
4 - 3	2x4	DRY	No.2	SPF	
6 - 4	2x6	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
1	TMVW-1	MT20	5.0	6.0	1.75 Edge
2	TMVW-1	MT20	6.0	6.0	2.00 1.50
3	TMV+p	MT20	2.0	4.0	
4	BMVW1+t	MT20	8.0	10.0	5.50 Edge
5	BMVW+t	MT20	8.0	10.0	5.00 3.75
6	BMV1+p	MT20	3.0	4.0	

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

HANGERS NOTES

- SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 2718.7 lbs FACTORED DOWN AT 3-1-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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

BEARINGS					
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
6	2330	0	2330	0	0
4	2895	0	2895	0	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

1ST LCASE					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND
6	1635	1144 / 0	0 / 0	0 / 0	491 / 0
4	2032	1421 / 0	0 / 0	0 / 0	610 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.28 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.

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
6-1	-2050 / 0	0.0	0.0 0.23 (1)	5.85	1-5	0 / 2069	0.51 (1)
1-2	-2359 / 0	-77.4	-77.4 0.19 (1)	4.28	5-2	0 / 3134	0.78 (1)
2-3	-10 / 0	-77.4	-77.4 0.09 (1)	10.00	2-4	-2869 / 0	0.83 (1)
4-3	-95 / 0	0.0	0.0 0.04 (1)	7.81			
6-5	0 / 0	-188.9	-188.9 0.15 (1)	10.00			
5-4	0 / 1970	-502.7	-502.7 0.63 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
5	3-1-4	-2719	-2719	-	FRONT	VERT	TOTAL

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 = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 9-2-12
END DISTANCE = 3-1-4
END SPAN CARRIED = 9-2-12
END WALL WIDTH = 0-0
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CStdGirder
START DISTANCE = 3-1-4
START SPAN CARRIED = 22-11-0
END DISTANCE = 6-0-0
END SPAN CARRIED = 22-11-0
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.

*** 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, NBCC 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL) = L/999 (0.06")

CSI: TC=0.23/1.00 (1-6:1), BC=0.63/1.00 (4-5:1), WB=0.83/1.00 (2-4:1), SSI=0.49/1.00 (4-5:1)

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



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

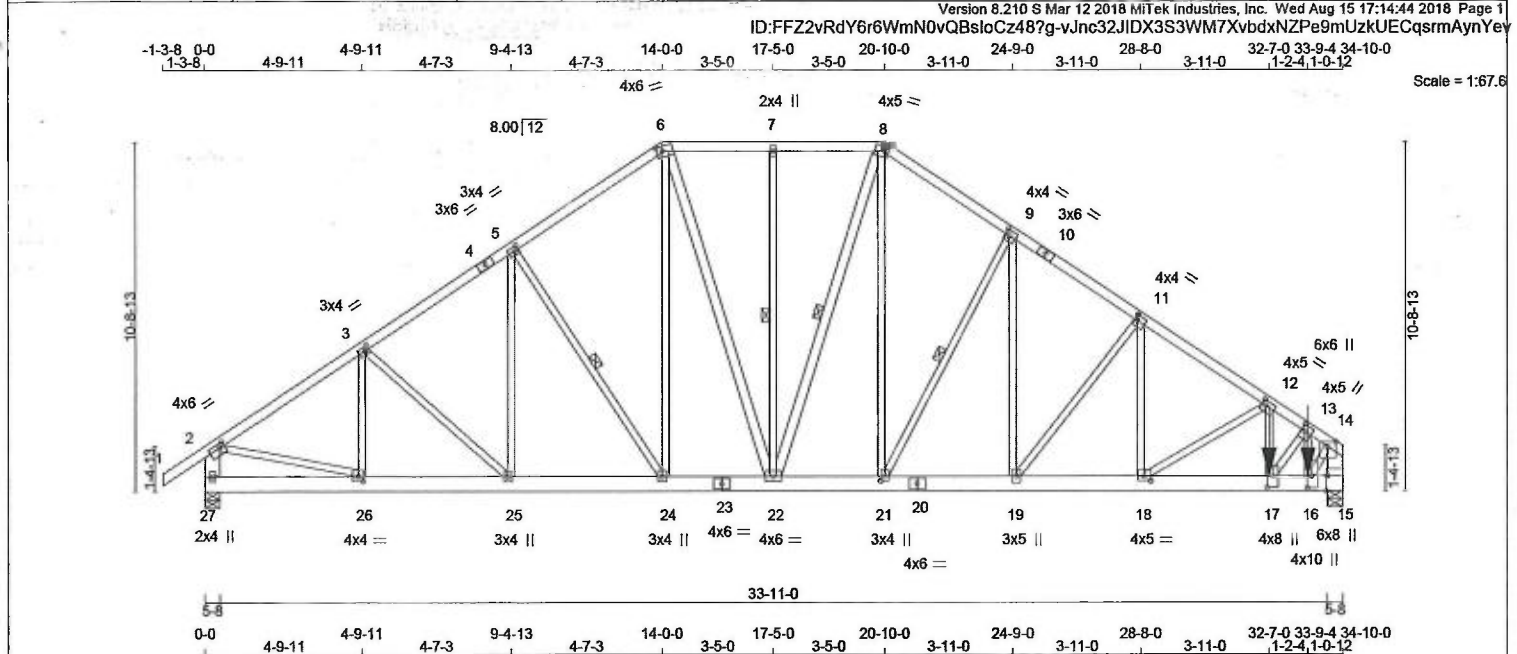
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (2) (INPUT = 0.90)
JSI METAL= 0.61 (1) (INPUT = 1.00)

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	CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF	FACTORED	MAXIMUM FACTORED	INPUT	REQRD				*** SPECIAL LOADS ANALYSIS ***	
1 - 4	2x4	DRY	No.2	SPF	BEARINGS		GROSS REACTION	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.	
4 - 6	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		LOADS WERE DERIVED FROM USER INPUT	
6 - 8	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		NO FURTHER MODIFICATIONS WERE MADE	
8 - 10	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		SPECIFIED LOADS:	
10 - 14	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		TOP CH. LL = 23.3 PSF	
27 - 2	2x6	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		DL = 3.0 PSF	
15 - 14	2x6	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		BOT CH. LL = 0.0 PSF	
27 - 23	2x6	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		DL = 7.0 PSF	
23 - 20	2x6	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		TOTAL LOAD = 33.3 PSF	
20 - 15	2x6	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		SPACING = 24.0 IN. C/C	
ALL WEBS	2x3	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM	
EXCEPT							VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		*** NON STANDARD GIRDER ***	
6 - 22	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.	
22 - 8	2x4	DRY	No.2	SPF			VERT	DOWN	HORIZ	UPLIFT	IN-SX	IN-SX		THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2010	
DRY: SEASONED LUMBER.				BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 27, 15										THIS DESIGN COMPLIES WITH:	
DESIGN CONSISTS OF 2 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:				BRACING										- PART 9 OF OBC 2012, CBC 2012, ABC 2014	
CHORDS #ROWS SURFACE SPACING (IN) LOAD(PLF)				TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.39 FT.										- CSA 086-09	
TOP CHORDS : (0.122"x3") SPIRAL NAILS				MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										- TPIC 2011	
1-4 1 12 TOP				ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.										(55% OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD	
4-6 1 12 TOP				1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-24, 7-22, 8-22, 9-21. DBS = 20-0-0. CBF = 182 LBS.										ALLOWABLE DEFL.(LL)= L/360 (1.16")	
6-8 1 12 TOP				DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122"x3") SPIRAL NAILS : 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.										CALCULATED VERT. DEFL.(LL) = L/999 (0.07")	
8-10 1 12 TOP				END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW										ALLOWABLE DEFL.(TL)= L/360 (1.16")	
10-14 1 12 TOP				LOADING										CALCULATED VERT. DEFL.(TL) = L/999 (0.12")	
27-2 2 12 TOP				TOTAL LOAD CASES: (4)										CSI: TC=0.30/1.00 (12-13:1), BC=0.62/1.00 (17-18:1), WB=0.78/1.00 (14-16:1), SSI=0.16/1.00 (16-17:1)	
15-14 2 12 TOP				CHORDS										DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.00 COMP=1.00 SHEAR=1.00 TENS=1.00	
BOTTOM CHORDS : (0.122"x3") SPIRAL NAILS				MEMB. MAX. FACTORED FORCE (LBS)										COMPANION LIVE LOAD FACTOR = 0.50	
27-23 2 12 TOP				FACTORED VERT. LOAD LC1 MAX										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .	
23-20 2 12 TOP				FROM TO										NAIL VALUES	
20-15 2 12 TOP				LENGTH FR-TO										PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI)	
WEBS : (0.122"x3") SPIRAL NAILS				MEMB. MAX. FACTORED FORCE (LBS)										MAX MIN MAX MIN MAX MIN	
2x3 1 6				MAX. FACTORED FORCE (LBS)										MT20 618 354 1667 822 2284 1656	
2x4 1 6				MAX. FACTORED FORCE (LBS)										CONTINUED ON PAGE 2	
NAILS TO BE DRIVEN FROM ONE SIDE ONLY.				FR-TO										KOTT	
GIRDER NAILING ASSUMES NAILED HANGERS ARE FASTENED WITH MIN. 3-0 INCH NAILS.				1-2 0 / 29											



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.

JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-083	G05	1	2	GREENPARK-MINNISALE HOMES-GRANDBROOKE 12 EL 2	PAGE 12 OF 56

Version 8.210 8 Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 17:14:44 2018 Page 2
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-vJnc32JIDX3S3WM7XvbdxNZPe9mUzkUECqsrnAynYey

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	1.75
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TMWW-t	MT20	3.0	4.0	1.50	1.50
6	TTWW-m	MT20	4.0	6.0	1.75	2.00
7	TMW+w	MT20	2.0	4.0		
8	TTWW-m	MT20	4.0	5.0	1.75	1.50
9	TMWW-t	MT20	4.0	4.0	2.00	1.50
10	TS-t	MT20	3.0	6.0		
11	TMWW-t	MT20	4.0	4.0	2.00	1.00
12	TMWW-t	MT20	4.0	5.0	1.75	1.50
13	TMWW+t	MT20	4.0	5.0	2.25	1.25
14	TMVW+p	MT20	6.0	6.0	1.75	3.00
15	BMV1+t	MT20	6.0	8.0	Edge	0.50
16	BMWW+t	MT20	4.0	10.0	4.50	1.50
17	BMWW+t	MT20	4.0	8.0	4.25	2.00
18	BMWW-t	MT20	4.0	5.0	1.75	2.50
19	BMWW+t	MT20	3.0	5.0		
20	BS-t	MT20	4.0	6.0		
21	BMWW+t	MT20	3.0	4.0	1.75	1.50
22	BMWWW-t	MT20	4.0	6.0		
23	BS-t	MT20	4.0	6.0		
24	BMWW+t	MT20	3.0	4.0		
25	BMWW+t	MT20	3.0	4.0		
26	BMWW-t	MT20	4.0	4.0	1.75	1.75
27	BMV1+p	MT20	2.0	4.0		

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

HANGERS NOTES

- 1) SPECIAL HANGER(S) OR CONNECTION(S)
REQUIRED TO SUPPORT CONCENTRATED
LOAD(S) 5577.0 lbs FACTORED DOWN AT
32-7-0, AND 780.8 lbs FACTORED DOWN AT
33-9-4 ON BOTTOM CHORD. DESIGN FOR
UNSPECIFIED CONNECTION(S) IS DELEGATED
TO THE BUILDING DESIGNER.

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE
16	33-9-4	-781	-781	---	FRONT	VERT	TOTAL
17	32-7-0	-5577	-5577	---	FRONT	VERT	TOTAL

PLATE PLACEMENT TOL. = 0.250 inches

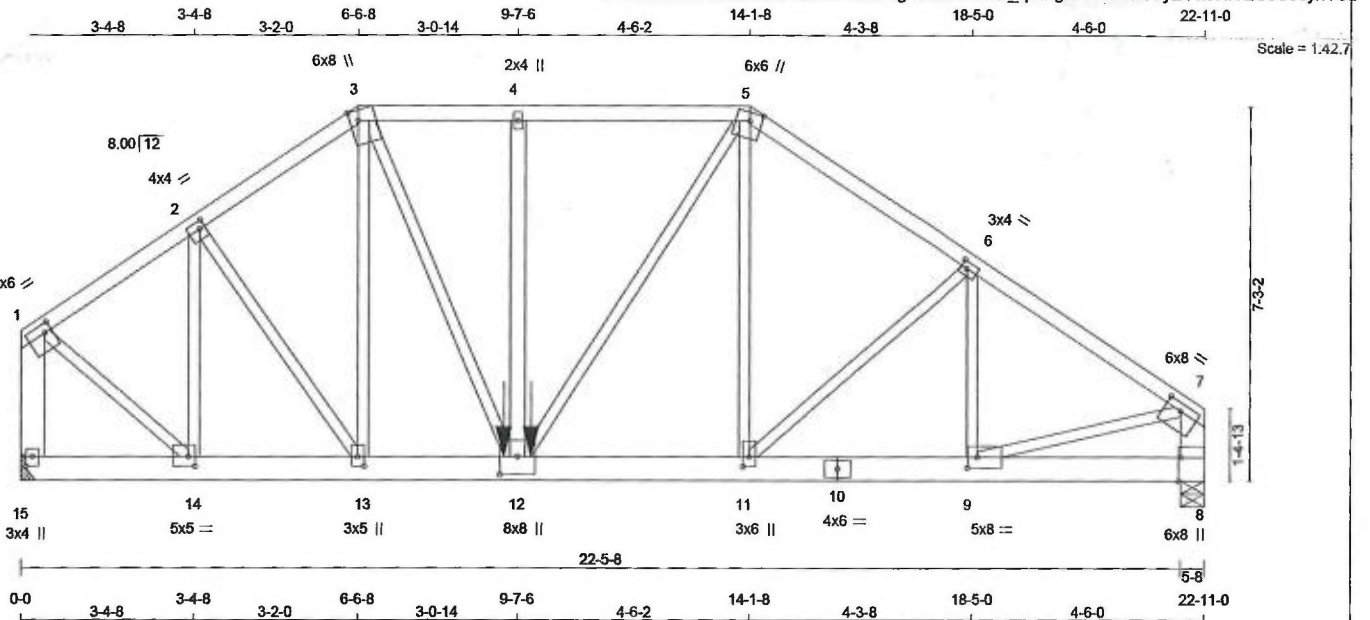
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (16) (INPUT = 0.90)

JSI METAL= 0.75 (16) (INPUT = 1.00)

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LUMBER				DESCR.	
N.L.G.A. RULES	CHORDS	SIZE	LUMBER		
1 - 3	2x4	DRY	No.2	SPF	
3 - 5	2x4	DRY	No.2	SPF	
5 - 7	2x4	DRY	No.2	SPF	
15 - 1	2x6	DRY	No.2	SPF	
8 - 7	2x6	DRY	No.2	SPF	
15 - 10	2x6	DRY	No.2	SPF	
10 - 8	2x6	DRY	No.2	SPF	
ALL WEBS	2x3	DRY	No.2	SPF	
EXCEPT					
12 - 4	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-I	MT20	6.0	6.0	2.00	1.75
2	TMVW-I	MT20	4.0	4.0	1.75	1.25
3	TTWW+m	MT20	6.0	8.0	Edge	2.00
4	TMVW+w	MT20	2.0	4.0		
5	TTWW+m	MT20	6.0	6.0	2.00	2.75
6	TMVW-I	MT20	3.0	4.0	1.50	1.50
7	TMVW-I	MT20	6.0	8.0	1.75	3.75
8	BMV1+I	MT20	6.0	8.0	Edge	0.50
9	BMVW-I	MT20	5.0	8.0	2.50	2.25
10	BS-I	MT20	4.0	6.0		
11	BMVW+I	MT20	3.0	6.0	2.25	1.50
12	BMVW+I	MT20	8.0	8.0	4.25	4.00
13	BMVW+I	MT20	3.0	5.0	2.25	1.50
14	BMVW+I	MT20	5.0	5.0	2.25	1.50
15	BMV1+p	MT20	3.0	4.0	2.25	1.50

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

HANGERS NOTES

1)

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	VERT	HORZ	GROSS REACTION	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	BRG
15	2718	0	2718	0	0	0	MECHANICAL	5-8	
8	3620	0	3620	0	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 15 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
15	1908	1335 / 0	0 / 0	0 / 0	0 / 0	573 / 0	0 / 0
8	2540	1777 / 0	0 / 0	0 / 0	0 / 0	763 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.03 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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	-2192 / 0	-77.4	-77.4 0.22 (1)	4.38	14-2	-1324 / 0	0.50 (1)
2-3	-2799 / 0	-77.4	-77.4 0.26 (1)	3.90	2-13	0 / 835	0.21 (1)
3-4	-3185 / 0	-77.4	-77.4 0.31 (1)	3.60	13-3	-616 / 0	0.55 (1)
4-5	-3185 / 0	-77.4	-77.4 0.40 (1)	3.55	3-12	0 / 2166	0.54 (1)
5-6	-3624 / 0	-77.4	-77.4 0.49 (1)	3.28	12-4	-331 / 0	0.21 (1)
6-7	-4103 / 0	-77.4	-77.4 0.58 (1)	3.03	12-5	0 / 307	0.08 (1)
15-1	-2686 / 0	0.0	0.0 0.27 (1)	6.32	11-5	0 / 1459	0.36 (1)
8-7	-3187 / 0	0.0	0.0 0.23 (1)	5.88	11-6	-588 / 0	0.36 (1)
15-14	0 / 0	-17.5	-17.5 0.02 (4)	10.00	9-6	0 / 267	0.07 (1)
14-13	0 / 1837	-17.5	-17.5 0.28 (1)	10.00	1-14	0 / 2285	0.57 (1)
13-12	0 / 2301	-17.5	-17.5 0.35 (1)	10.00	9-7	0 / 3512	0.87 (1)
12-11	0 / 3017	-221.1	-221.1 0.67 (1)	10.00			
11-10	0 / 3429	-221.1	-221.1 0.73 (1)	10.00			
10-9	0 / 3429	-221.1	-221.1 0.73 (1)	10.00			
9-8	0 / 0	-221.1	-221.1 0.31 (1)	10.00			

FACTORED CONCENTRATED LOADS (LBS)

JT	LOC.	LC1	MAX.	MAX+	FACE	DIR.	TYPE
12	9-10-8	-524	-524	---	FRONT	VERT	TOTAL
12	9-4-4	-932	-932	---	FRONT	VERT	TOTAL

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	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	PSF	

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CSldGirder
START DISTANCE = 9-10-8
START SPAN CARRIED = 11-0-8
END DISTANCE = 22-11-0
END SPAN CARRIED = 11-0-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
- ADDTL LOADS BASED ON 55 % OF GSL.
(DEFINED BY USER)

*** 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, NBCC 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.76")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.11")
ALLOWABLE DEFL.(TL) = $L/360$ (0.76")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.19")

CSI: TC=0.58/1.00 (6-7:1), BC=0.73/1.00 (9-11:1), WB=0.87/1.00 (7-9:1), SS=0.37/1.00 (8-9:1)

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

COMPANION LIVE LOAD FACTOR = 0.50



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.

CONTINUED ON PAGE 2



HANGERS NOTES

1) SPECIAL HANGER(S) OR CONNECTION(S) REQUIRED TO SUPPORT CONCENTRATED LOAD(S) 524.4 lbs FACTORED DOWN AT 9-10-8, AND 931.9 lbs FACTORED DOWN AT 9-4-4 ON BOTTOM CHORD. DESIGN FOR UNSPECIFIED CONNECTION(S) IS DELEGATED TO THE BUILDING DESIGNER.

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	618 354	1667 822	2284 1656

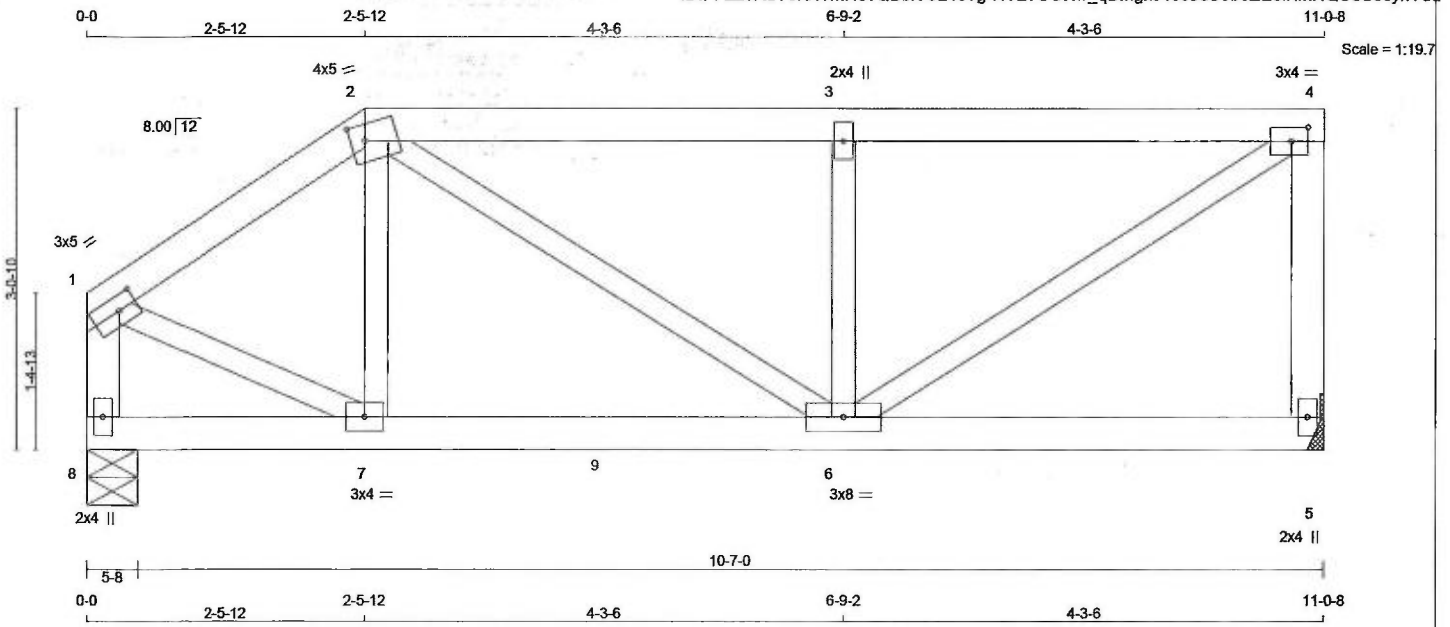
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (5) (INPUT = 0.90)
JSI METAL= 0.86 (10) (INPUT = 1.00)

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.

The logo for KOTT, featuring a stylized 'K' made of two triangles and the word 'KOTT' in a bold, sans-serif font.



TOTAL WEIGHT = 43 lb [M]

LUMBER					DESCR.	
N. L. G. A. RULES						
CHORDS	SIZE	LUMBER	SIZE	DESCR.		
1 - 2	2x4	DRY	No.2	SPF		
2 - 4	2x4	DRY	No.2	SPF		
5 - 4	2x4	DRY	No.2	SPF		
8 - 1	2x4	DRY	No.2	SPF		
8 - 5	2x4	DRY	No.2	SPF		
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF		

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-l	MT20	3.0	5.0	1.50	2.00
2	TTWW-m	MT20	4.0	5.0	1.75	1.50
3	TMVW-w	MT20	2.0	4.0		
4	TMVW-l	MT20	3.0	4.0	1.50	1.75
5	BMV1+p	MT20	2.0	4.0		
6	BMWWW-l	MT20	3.0	8.0		
7	BMWW-l	MT20	3.0	4.0		
8	BMV1+p	MT20	2.0	4.0		

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

		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQRD BRG	
JT		VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	
5		524	0	524	0	0	MECHANICAL		
8		526	0	526	0	0	5-8	5-8	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	368	257 / 0	0 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0
8	369	258 / 0	0 / 0	0 / 0	0 / 0	0 / 0	111 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

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		
		MAX. FACTORED	FACTORED		MAX. FACTORED	FACTORED	
MEMB.		FORCE (LBS)	VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	MAX CSI (LC)
FR-TO			FROM TO		FR-TO		
1-2	-457 / 0	-77.4	-77.4	0.09 (1)	6-25	-91 / 22	0.02 (1)
2-3	-565 / 0	-77.4	-77.4	0.26 (1)	6-25	0 / 225	0.06 (1)
3-4	-565 / 0	-77.4	-77.4	0.26 (1)	6-25	-406 / 0	0.08 (1)
5-4	-492 / 0	0.0	0.0	0.08 (1)	7.81	0 / 673	0.17 (1)
8-1	-510 / 0	0.0	0.0	0.06 (1)	7.81	0 / 411	0.10 (1)
8-7	0 / 0	-18.0	-18.0	0.05 (4)	10.00		
7-9	0 / 376	-18.0	-18.0	0.11 (4)	10.00		
9-6	0 / 376	-17.5	-17.5	0.11 (4)	10.00		
6-5	0 / 0	-17.5	-17.5	0.08 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	PSF

SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CSldGirder

START DISTANCE = 0-0

START SPAN CARRIED = 2-5-12

END DISTANCE = 4-8-0

END SPAN CARRIED = 2-5-12

END WALL WIDTH = 5-8

APPLIED TO FRONT SIDE OF BOTTOM CHORD.

- ADDTL LOADS BASED ON 55 % OF GSL.

(DEFINED BY USER)

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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.26/1.00 (3-4:1), BC=0.11/1.00 (6-7:4), WB=0.17/1.00 (4-6:1), SSI=0.18/1.00 (3-4:1)

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

COMPANION LIVE LOAD FACTOR = 0.50

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	618	354	1667 822 2284 1656

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.



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-083	G07	1	1	GREENPARK-MINNISALE HOMES-GRANDBROOKE 12 EL 2	PAGE 16 OF 56

Version 8.210 8 Mar 12 2018 Mittek Industries, Inc. Wed Aug 15 17:14:45 2018 Page 2
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-NVL?GOKw_gBlhgXJ4c6sUb6b5ZEeiKMNQUcOJcynYeu

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.84 (4) (INPUT = 0.90)
JSI METAL= 0.21 (4) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON
ENGINEERING NOTE PAGE ENP-1. THIS
NOTE PAGE IS AN INTEGRAL PART OF
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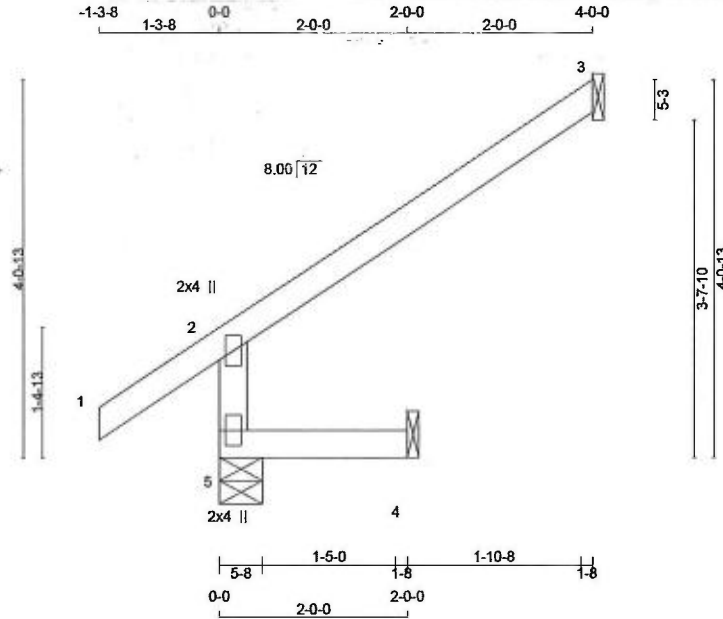
JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	DRWG NO.
NE0818-083	G08	1	1	GREENPARK-MINNISALE HOMES-GRANDBROOKE 12 EL 2	PAGE 18 OF 56

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 17:14:46 2018 Page 2
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-rhvNUKL Yl8J9lqWVVeKd50oflkzZDRngXf8Lxr2ynYex

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.81 (10) (INPUT = 0.90)
JSI METAL= 0.24 (10) (INPUT = 1.00)

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





TOTAL WEIGHT = 3 X 11 = 33 lb
[M]

LUMBER

N. L. G. A. RULES				
CHORDS	SIZE		LUMBER	DESCR
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ UPLIFT		
5	319	0	319	0	5-8	5-8
3	116	0	116	0	1-8	1-8
4	16	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	219	180 / 0	0 / 0	0 / 0	0 / 0	39 / 0	0 / 0
3	79	70 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 MAX (PLF)		MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
		FROM	TO				
5-2	-299 / 0	0.0	0.0	0.01 (4)	7.81		
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00		
2-3	-21 / 0	-77.4	-77.4	0.21 (1)	6.25		
5-4	0 / 0	-17.5	-17.5	0.02 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.21/1.00 (2-3:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (2-3:1)

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)	SHEAR (PSI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

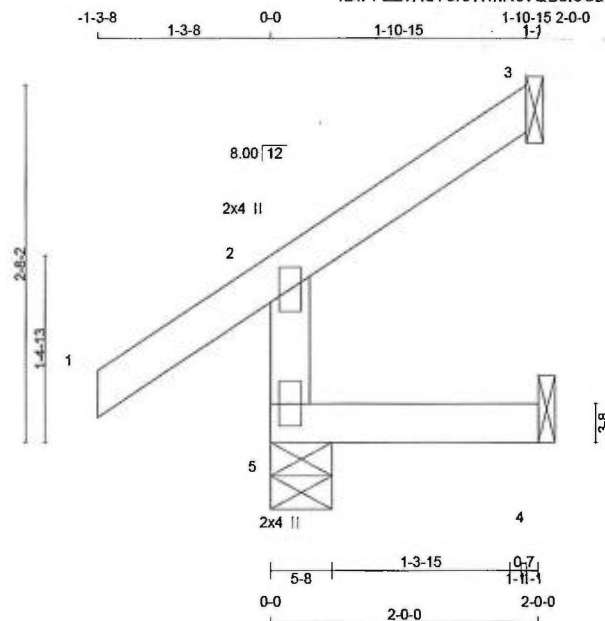
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL = 0.07 (2) (INPUT = 1.00)



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 = 1:16.5

TOTAL WEIGHT = 3 X 8 = 24 lb (M)

LUMBER

N. L. G. A. RULES					
CHORDS		SIZE		LUMBER	DESCR.
5	- 2	2x4	DRY	No.2	SPF
1	- 3	2x4	DRY	No.2	SPF
5	- 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQD BRG
	VERT	HORZ	DOWN	HORZ		
5	235	0	235	0	5-8	5-8
3	43	0	43	0	1-8	1-8
4	10	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

PROVIDE ANCHORAGE AT BEARING JOINT 3 FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	162	131 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	30	25 / -16	0 / 0	0 / 0	0 / 0	4 / 0	0 / 0
4	9	0 / -7	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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)

MEMB.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MEMB. MAX. UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
5-2	-211/0	0.0	0.03 (5)	7.81		
1-2	0/29	-77.4	-77.4 0.10 (1)	10.00		
2-3	-17/0	-77.4	-77.4 0.08 (1)	6.25		
5-4	0/0	-17.5	-17.5 0.03 (5)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.10/1.00 (1-2:1), BC=0.03/1.00 (4-5:5), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (1-2:1)

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)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
	MAX	MIN	MAX
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

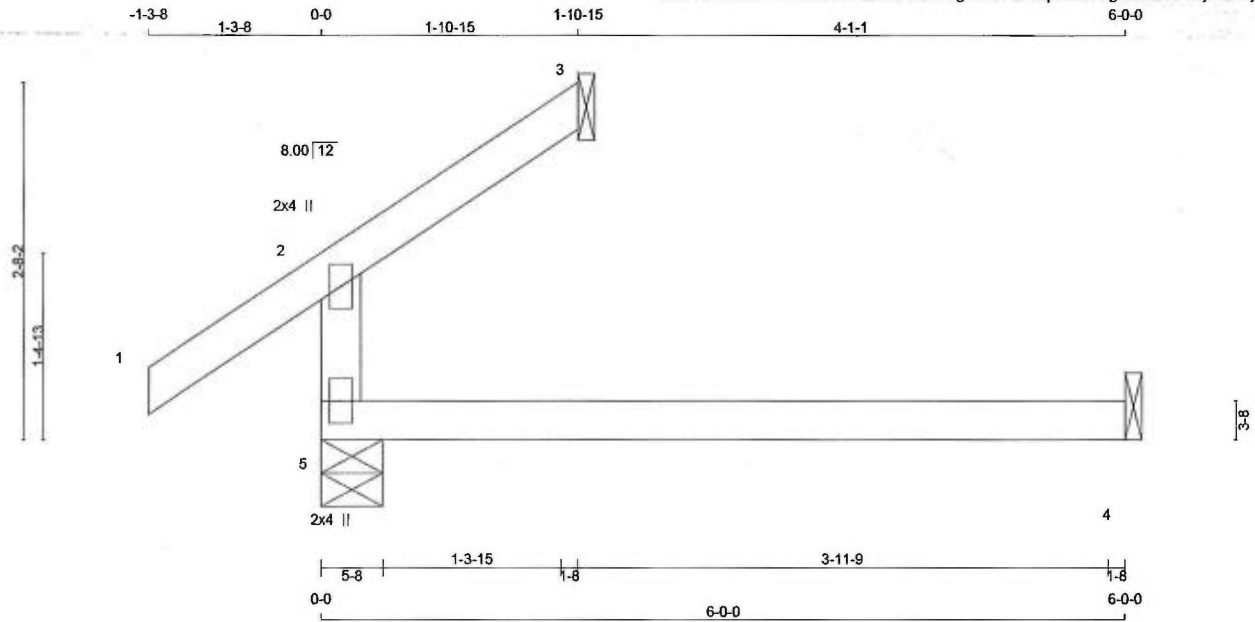
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.14 (2) (INPUT = 0.90)
JSI METAL = 0.05 (2) (INPUT = 1.00)



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 = 3 X 13 = 38 lb [M]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF	
1 - 3	2x4	DRY	No.2	SPF	
5 - 4	2x4	DRY	No.2	SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	253	0	253	0	5-8	5-8
3	61	0	61	0	1-8	1-8
4	44	0	51	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		COMBINED	SNOW				
5	177	130 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
3	44	24 / 0	0 / 0	0 / 0	0 / 0	20 / 0	0 / 0
4	36	0 / -1	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MAX. UNBRAC	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
5-2	-193 / 0	0.0	0.0	0.10 (4)	7.81		
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00		
2-3	-7 / 11	-77.4	-77.4	0.08 (4)	10.00		
5-4	0 / 0	-17.5	-17.5	0.14 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.20")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.20")
CALCULATED VERT. DEFL.(TL)= L/999 (0.04")

CSI: TC=0.10/1.00 (1-2:1), BC=0.14/1.00 (4-5:4),
WB=0.00/1.00 (n/a:0), SSI=0.08/1.00 (4-5:4)

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.

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

PLATE PLACEMENT TOL. = 0.250 inches

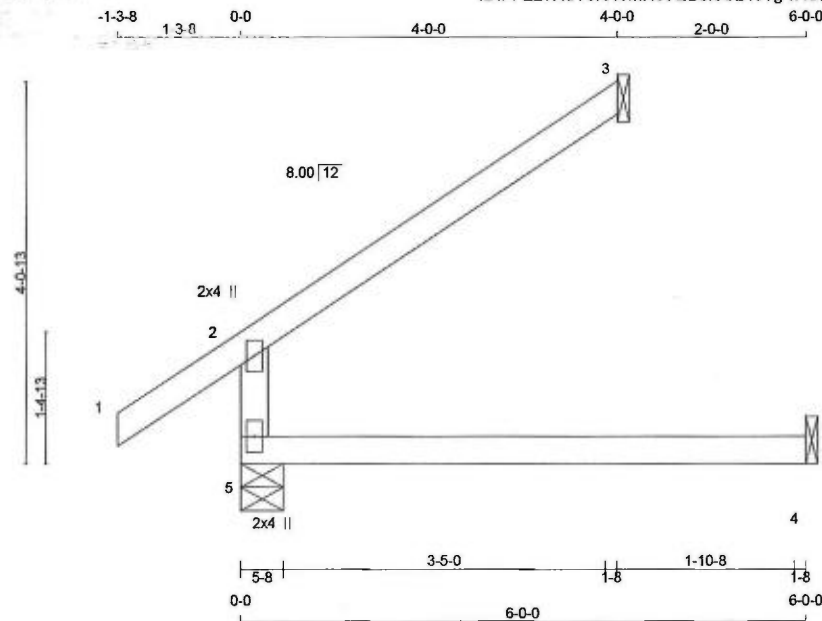
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.12 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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 = 3 X 15 = 46 lb (M)

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	No.2	DESCR.	SPF
5 - 2	2x4	DRY	No.2	SPF			
1 - 3	2x4	DRY	No.2	SPF			
5 - 4	2x4	DRY	No.2	SPF			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD IN-SX
	VERT	HORZ	DOWN	HORZ		
5	361	0	361	0	5-8	5-8
3	116	0	116	0	1-8	1-8
4	44	0	49	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	252	180/0	0/0	0/0	0/0	72/0	0/0
3	79	70/0	0/0	0/0	0/0	9/0	0/0
4	35	0/0	0/0	0/0	0/0	35/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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.	CHORDS			WEBS		
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED LC1 MAX CSI (LC)	MAX. MEMB. UNBRACED LENGTH FR-TO	MAX. FACTORED FORCE (LBS)	MAX. MEMB. UNBRACED LENGTH FR-TO
5-2	-299/0	0.0	0.0 0.12 (4)	7.81		
1-2	0/29	-77.4	-77.4 0.10 (1)	10.00		
2-3	-21/0	-77.4	-77.4 0.21 (1)	6.25		
5-4	0/0	-17.5	-17.5 0.13 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.21/1.00 (2-3:1), BC=0.13/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.13/1.00 (2-3:1)

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)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

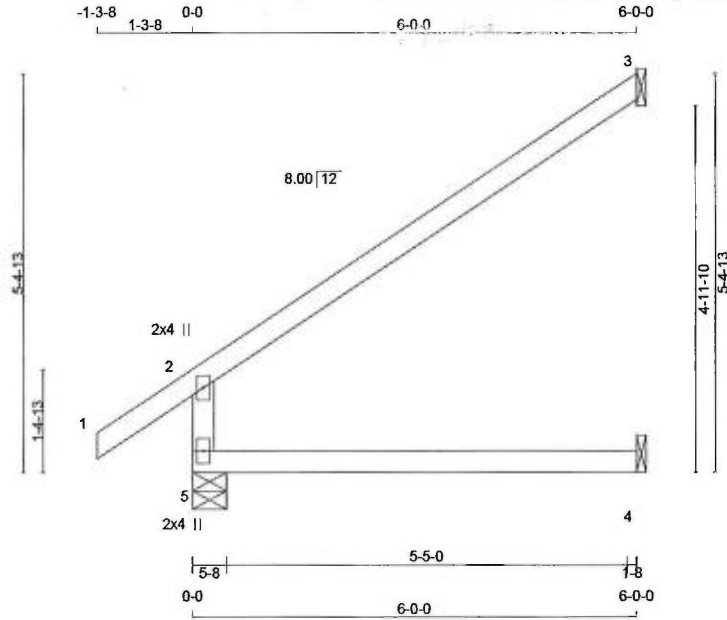
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.19 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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 = 15 X 18 = 272 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
5	457	0	457	0	5-8	5-8
3	174	0	174	0	1-8	1-8
4	44	0	49	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		COMBINED	SNOW				
5	318	239 / 0	0 / 0	0 / 0	0 / 0	80 / 0	0 / 0
3	118	105 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0
4	35	0 / 0	0 / 0	0 / 0	0 / 0	35 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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.	CHORDS		WEBS	
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. FACTORED UNBRAC LENGTH FR-TO	MAX. FACTORED FORCE (LBS)
5-2	-396 / 0	0.0	0.0 0.12 (4)	7.81
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00
2-3	-32 / 0	-77.4	-77.4 0.47 (1)	6.25
5-4	0 / 0	-17.5	-17.5 0.13 (4)	10.00

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

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

CSI: TC=0.47/1.00 (2-3:1), BC=0.13/1.00 (4-5:4),
WB=0.00/1.00 (n/a:0), SSI=0.19/1.00 (2-3:1)

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)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

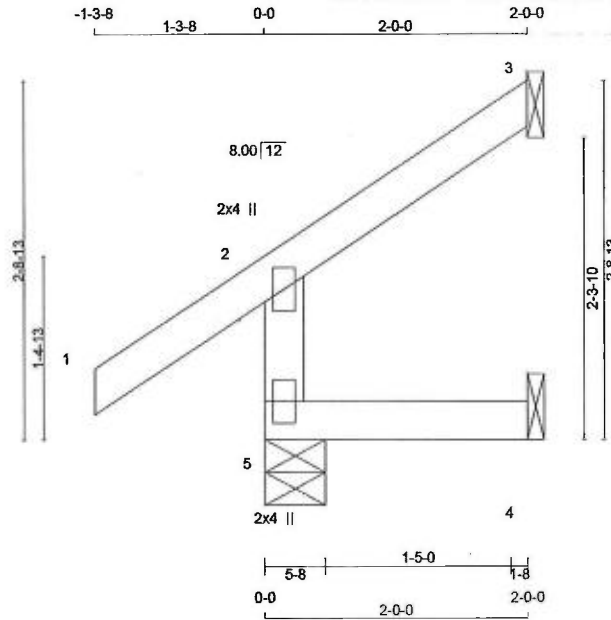
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (2) (INPUT = 0.90)
JSI METAL= 0.10 (2) (INPUT = 1.00)



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 = 9 X 8 = 73 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
5	222	0	222	0	5-8	5-8
3	59	0	59	0	1-8	1-8
4	16	0	16	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN COMPONENT REACTIONS		PERM. LIVE	WIND	DEAD	SOIL
		SNOW	LIVE				
5	153	122/0	0/0	0/0	0/0	31/0	0/0
3	40	35/0	0/0	0/0	0/0	5/0	0/0
4	13	0/0	0/0	0/0	0/0	13/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX (LC) (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (LC)	FR-TO
5-2	-202/0	0.0	0.0 0.01 (4)	7.81			
1-2	0/29	-77.4	-77.4 0.10 (1)	10.00			
2-3	-10/0	-77.4	-77.4 0.05 (1)	6.25			
5-4	0/0	-17.5	-17.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.10/1.00 (1-2:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (1-2:1)

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)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

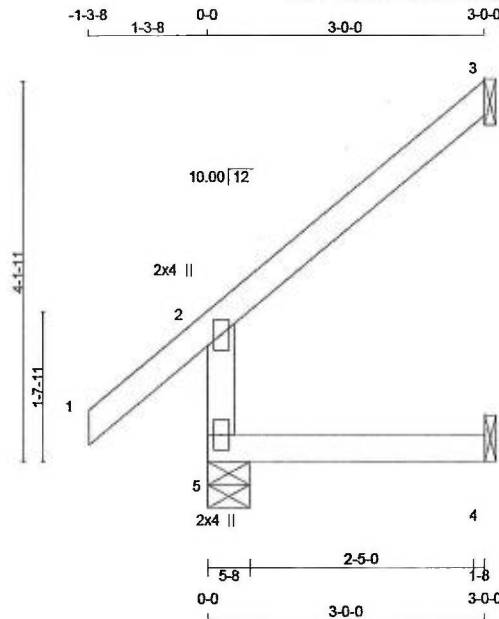
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.13 (2) (INPUT = 0.90)
JSI METAL= 0.05 (2) (INPUT = 1.00)



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: 1/2"=1'

TOTAL WEIGHT = 6 X 11 = 69 lb

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	DRY	LUMBER	DESCR.
5 - 2	2x4	DRY	No.2	SPF
1 - 3	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	281	0	281	0	5-8	5-8
3	87	0	87	0	1-8	1-8
4	23	0	26	0	1-8	1-8

SEE MITTEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
5	195	152 / 0	0 / 0	0 / 0	0 / 0	43 / 0	0 / 0
3	59	53 / 0	0 / 0	0 / 0	0 / 0	7 / 0	0 / 0
4	19	0 / 0	0 / 0	0 / 0	0 / 0	19 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5, 3

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)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	WEBS			
				MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED UNBRACED LENGTH (FT)
5-2	FR-TO	-252 / 0	0.0	0.0	0.02 (4)	7.81	
1-2	FR-TO	0 / 34	-77.4	-77.4	0.11 (1)	10.00	
2-3	FR-TO	-18 / 0	-77.4	-77.4	0.12 (1)	6.25	
5-4	FR-TO	0 / 0	-17.5	-17.5	0.04 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	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

DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.12/1.00 (2-3:1), BC=0.04/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.09/1.00 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 L S 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)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MAX MIN	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1687
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

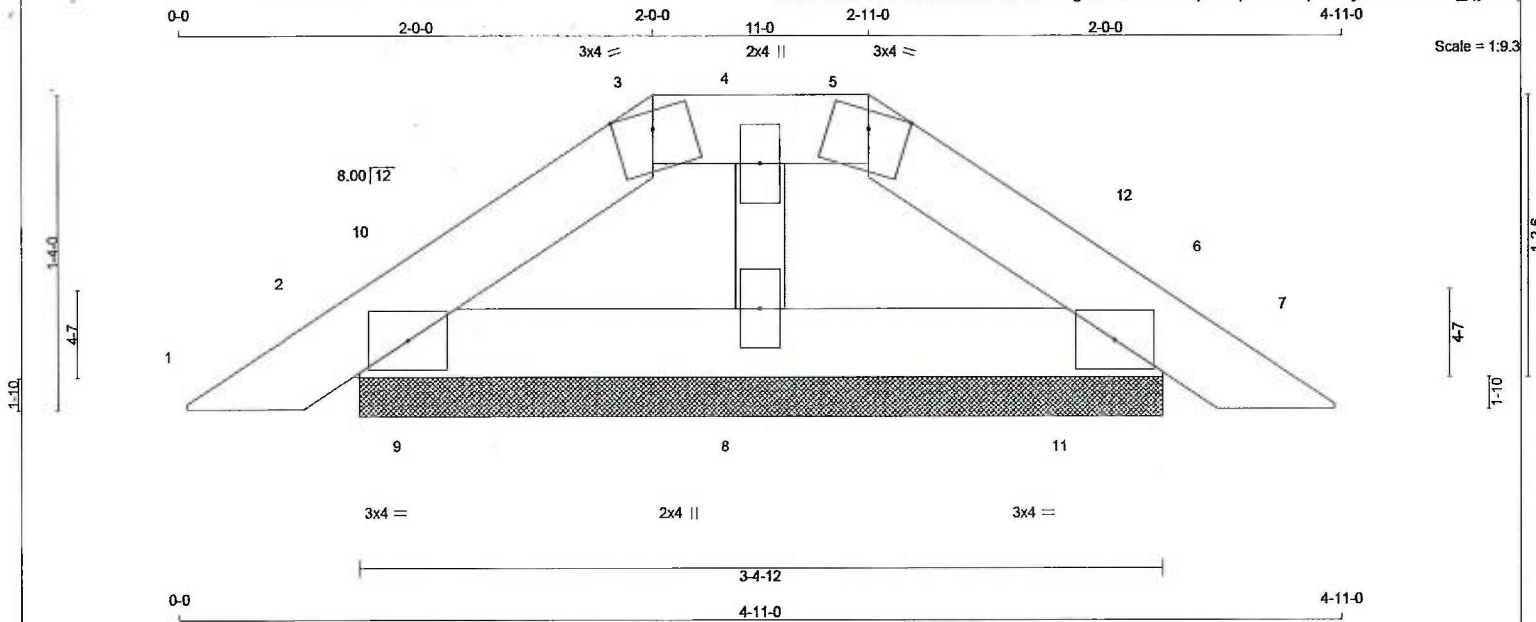
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (2) (INPUT = 0.90)
JSI METAL= 0.07 (2) (INPUT = 1.00)



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 = 2 X 11 = 22 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
5 - 7	2x4	DRY	No.2	SPF
2 - 6	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
2	TMB1-I	MT20	3.0	4.0
3	TT-m	MT20	3.0	4.0 Edge
4	TMW+w	MT20	2.0	4.0
5	TT-m	MT20	3.0	4.0 Edge
6	TMB1-I	MT20	3.0	4.0
8	BMW1+w	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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
2	138	0	138	0	3-4-12	3-4-12
6	138	0	138	0	3-4-12	3-4-12
8	147	0	147	0	3-4-12	3-4-12

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	SNOW	LIVE	PERM. LIVE	WIND			
2	96	76/0	0/0	0/0	20/0	0/0	0/0
6	96	76/0	0/0	0/0	20/0	0/0	0/0
8	104	68/0	0/0	0/0	36/0	0/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 6, 8

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 LC1 (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)
FR-TO		FROM TO	FR-TO		
1-2	0/13	-77.4 -77.4 0.02 (1)	8-4	-92/0	0.01 (1)
2-10	-56/0	-77.4 -77.4 0.00 (4)	6-25	9-10	-35/6 0.00 (1)
10-3	-48/0	-77.4 -77.4 0.01 (1)	6-25	11-12	-35/6 0.00 (1)
3-4	-39/0	-77.4 -77.4 0.02 (1)	6-25		
4-5	-39/0	-77.4 -77.4 0.02 (1)	6-25		
5-12	-48/0	-77.4 -77.4 0.01 (1)	6-25		
12-6	-56/0	-77.4 -77.4 0.00 (4)	6-25		
6-7	0/13	-77.4 -77.4 0.02 (1)	10.00		
2-9	0/40	-17.5 -17.5 0.02 (1)	10.00		
9-8	0/40	-17.5 -17.5 0.02 (1)	10.00		
8-11	0/40	-17.5 -17.5 0.02 (1)	10.00		
11-6	0/40	-17.5 -17.5 0.02 (1)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.02/1.00 (6-7:1), BC=0.02/1.00 (8-9:1), WB=0.01/1.00 (4-8:1), SSI=0.04/1.00 (3-4:1)

DOL LUMBER=1.00 NAIL=1.00 L.S 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) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

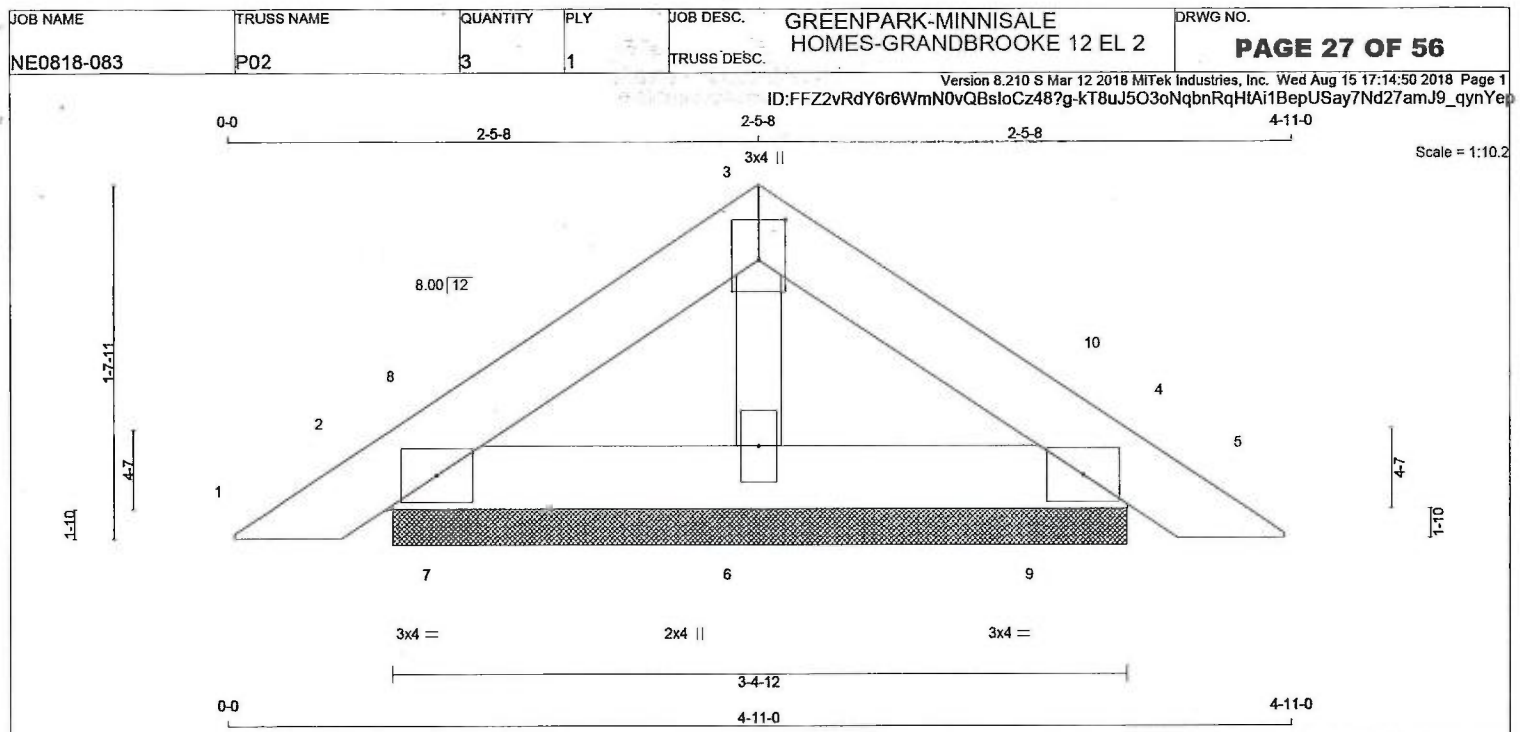
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.10 (2) (INPUT = 0.90)
JSI METAL= 0.03 (2) (INPUT = 1.00)



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

1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
2 - 4	2x4	DRY	No.2

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

LUMBER

No.2	SPF
No.2	SPF
No.2	SPF

DESCR.

SPF	SPF	SPF
SPF	SPF	SPF
SPF	SPF	SPF

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMB1-i	MT20	3.0	4.0		
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMB1-i	MT20	3.0	4.0		
6	BMW1+w	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
	VERT	HORZ	DOWN	HORZ		
2	140	0	140	0	3-4-12	3-4-12
4	140	0	140	0	3-4-12	3-4-12
6	144	0	144	0	3-4-12	3-4-12

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
2	97	77/0	0/0	0/0	0/0	20/0	0/0
4	97	77/0	0/0	0/0	0/0	20/0	0/0
6	102	66/0	0/0	0/0	0/0	35/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 2, 4, 6

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. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0/13	-77.4 -77.4	0.02 (1)	10.00	6-3	-68/0	0.01 (1)
2-8	-29/0	-77.4 -77.4	0.00 (1)	6.25	7-8	-73/0	0.00 (1)
8-3	-34/0	-77.4 -77.4	0.02 (1)	6.25	9-10	-73/0	0.00 (1)
3-10	-34/0	-77.4 -77.4	0.02 (1)	6.25			
10-4	-29/0	-77.4 -77.4	0.00 (1)	6.25			
4-5	0/13	-77.4 -77.4	0.02 (1)	10.00			
2-7	0/27	-17.5 -17.5	0.03 (1)	10.00			
7-6	0/27	-17.5 -17.5	0.03 (1)	10.00			
6-9	0/27	-17.5 -17.5	0.03 (1)	10.00			
9-4	0/27	-17.5 -17.5	0.03 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.02/1.00 (1-2:1), BC=0.03/1.00 (6-9:1), WB=0.01/1.00 (3-6:1), SSI=0.05/1.00 (4-9:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

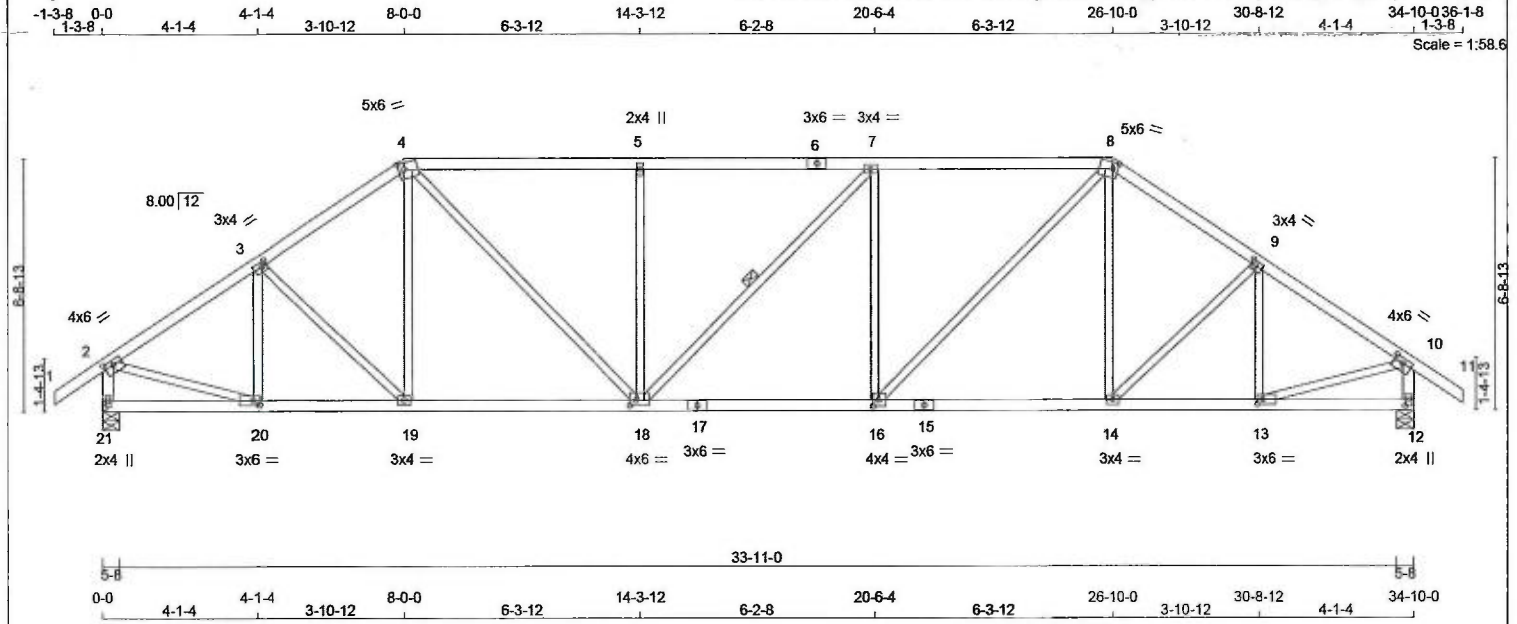
JSI GRIP= 0.11 (4) (INPUT = 0.90)

JSI METAL= 0.02 (4) (INPUT = 1.00)



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.
1 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
6 - 8	2x4	DRY	No.2
8 - 11	2x4	DRY	No.2
21 - 2	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
21 - 17	2x4	DRY	No.2
17 - 15	2x4	DRY	No.2
15 - 12	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-1	MT20	4.0	6.0	1.50	3.00
3	TMVW-1	MT20	3.0	4.0	1.50	1.50
4	TTWW-m	MT20	5.0	6.0	2.00	1.75
5	TMW-w	MT20	2.0	4.0		
6	TS-t	MT20	3.0	6.0		
7	TMVW-1	MT20	3.0	4.0		
8	TTWW-m	MT20	5.0	6.0	2.00	1.75
9	TMVW-1	MT20	3.0	4.0	1.50	1.50
10	TMVW-1	MT20	4.0	6.0	1.50	3.00
12	BMV1-p	MT20	2.0	4.0	2.25	1.00
13	BMVW-1	MT20	3.0	6.0	1.50	1.75
14	BMVW-1	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMVW-1	MT20	4.0	4.0	2.00	1.75
17	BS-t	MT20	3.0	6.0		
18	BMVWW-t	MT20	4.0	6.0	1.75	2.00
19	BMVW-1	MT20	3.0	4.0		
20	BMVW-1	MT20	3.0	6.0	1.50	1.75
21	BMV1-p	MT20	2.0	4.0	2.25	1.00

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

BEARINGS

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REQRD
21	1758	0	1758	0	0	5-8	5-8
12	1758	0	1758	0	0	5-8	5-8

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
21	1232	875 / 0	0 / 0	0 / 0	0 / 0	357 / 0	0 / 0
12	1232	875 / 0	0 / 0	0 / 0	0 / 0	357 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 21, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.00 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 7-18. DBS = 20-0-0. CBF = 0 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)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	20-3	-360 / 0	0.09 (1)	
2-3	-1911 / 0	-77.4 -77.4	0.26 (1)	4-6	-21 / 4	0.01 (1)	
3-4	-1934 / 0	-77.4 -77.4	0.25 (1)	4-6	0 / 114	0.04 (4)	
4-5	-2215 / 0	-77.4 -77.4	0.57 (1)	4-10	0 / 889	0.20 (1)	
5-6	-2215 / 0	-77.4 -77.4	0.57 (1)	4-10	-525 / 0	0.40 (1)	
6-7	-2215 / 0	-77.4 -77.4	0.57 (1)	4-10	-2 / 0	0.00 (1)	
7-8	-2216 / 0	-77.4 -77.4	0.58 (1)	4-10	-525 / 0	0.40 (1)	
8-9	-1934 / 0	-77.4 -77.4	0.25 (1)	4-10	0 / 891	0.20 (1)	
9-10	-1911 / 0	-77.4 -77.4	0.26 (1)	4-10	0 / 113	0.04 (4)	
10-11	0 / 29	-77.4 -77.4	0.10 (1)	14-9	-21 / 4	0.01 (1)	
21-2	-1724 / 0	0.0 0.0	0.18 (1)	13-9	-360 / 0	0.09 (1)	
12-10	-1724 / 0	0.0 0.0	0.18 (1)	6-34	0 / 1660	0.37 (1)	
				13-10	0 / 1660	0.37 (1)	
21-20	0 / 0	-17.5 -17.5	0.06 (4)	10-00			
20-19	0 / 1605	-17.5 -17.5	0.32 (1)	10-00			
19-18	0 / 1592	-17.5 -17.5	0.32 (1)	10-00			
18-17	0 / 2216	-17.5 -17.5	0.43 (1)	10-00			
17-16	0 / 2216	-17.5 -17.5	0.43 (1)	10-00			
16-15	0 / 1592	-17.5 -17.5	0.33 (1)	10-00			
15-14	0 / 1592	-17.5 -17.5	0.33 (1)	10-00			
14-13	0 / 1605	-17.5 -17.5	0.32 (1)	10-00			
13-12	0 / 0	-17.5 -17.5	0.06 (4)	10-00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.16")
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")
ALLOWABLE DEFL.(TL) = L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.58/1.00 (7-8:1), BC=0.43/1.00 (16-18:1), WB=0.40/1.00 (7-16:1), SSI=0.23/1.00 (7-8:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

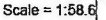
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (13) (INPUT = 0.90)
JSI METAL= 0.58 (17) (INPUT = 1.00)



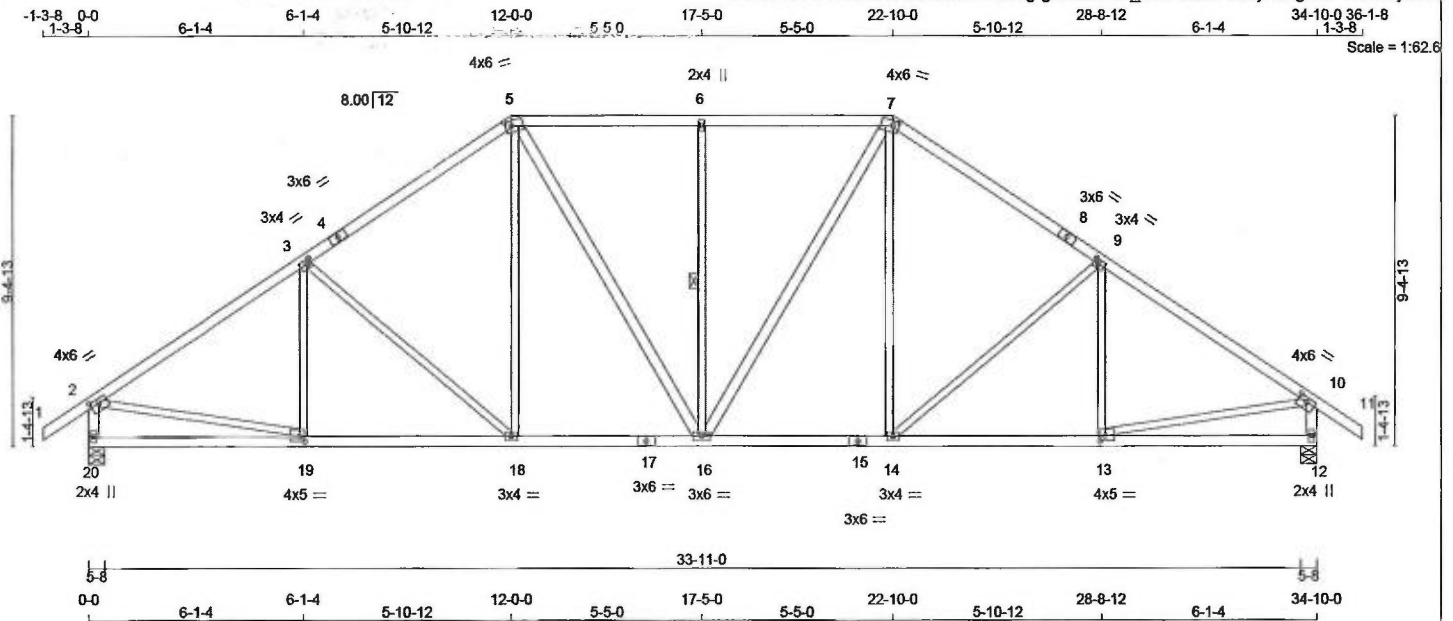
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





M][F]





TOTAL WEIGHT = 166 lb
[M][F]

LUMBER		N. L. G. A. RULES		LUMBER		DESCR.	
CHORDS	SIZE						
1 - 4	2x4	DRY	No.2			SPF	
4 - 5	2x4	DRY	No.2			SPF	
5 - 7	2x4	DRY	No.2			SPF	
7 - 8	2x4	DRY	No.2			SPF	
8 - 11	2x4	DRY	No.2			SPF	
20 - 2	2x4	DRY	No.2			SPF	
12 - 10	2x4	DRY	No.2			SPF	
20 - 17	2x4	DRY	No.2			SPF	
17 - 15	2x4	DRY	No.2			SPF	
15 - 12	2x4	DRY	No.2			SPF	
ALL WEBS EXCEPT	2x3	DRY	No.2			SPF	
5 - 16	2x4	DRY	No.2			SPF	
16 - 7	2x4	DRY	No.2			SPF	

DRY: SEASONED LUMBER.

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMWV-t	MT20	4.0	6.0	1.50	3.00
3	TMWV-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWV-m	MT20	4.0	6.0	1.75	2.00
6	TMW+w	MT20	2.0	4.0		
7	TTWV-m	MT20	4.0	6.0	1.75	2.00
8	TS-t	MT20	3.0	6.0		
9	TMWV-t	MT20	3.0	4.0	1.50	1.50
10	TMWV-t	MT20	4.0	6.0	1.50	3.00
12	BMV1+p	MT20	2.0	4.0		
13	BMWV-t	MT20	4.0	5.0	1.75	1.75
14	BMWV-t	MT20	3.0	4.0		
15	BS-t	MT20	3.0	6.0		
16	BMWVWV-t	MT20	3.0	6.0		
17	BS-t	MT20	3.0	6.0		
18	BMWV-t	MT20	3.0	4.0		
19	BMWV-t	MT20	4.0	5.0	1.75	1.75
20	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
20	1758	0	1758	0	0	5-8	5-8
12	1758	0	1758	0	0	5-8	5-8

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
20	1232	875 / 0	0 / 0	0 / 0	0 / 0	357 / 0	0 / 0
12	1232	875 / 0	0 / 0	0 / 0	0 / 0	357 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 20, 12

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.34 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 6-16. DBS = 20-0-0 . CBF = 64 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			
MAX. FACTORED		FACTORED		MAX. FACTORED		MAX. FACTORED	
MEMB.	FORCE	VERT. LOAD	LC1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PLF)	CSI (LC)	UNBRAC		(LBS)	CSI (LC)
FR-TO		FROM TO		LENGTH	FR-TO		
1-2	0/29	-77.4	-77.4	10.00	19-3	-183/47	0.08 (1)
2-3	-2002/0	-77.4	-77.4	4.34	3-8	-343/0	0.44 (1)
3-4	-1753/0	-77.4	-77.4	4.61	18-5	0/322	0.07 (1)
4-5	-1753/0	-77.4	-77.4	4.61	5-16	0/350	0.06 (1)
5-6	-1613/0	-77.4	-77.4	4.87	16-6	-511/0	0.30 (1)
6-7	-1613/0	-77.4	-77.4	4.87	16-7	0/350	0.06 (1)
7-8	-1753/0	-77.4	-77.4	4.61	14-7	0/322	0.07 (1)
8-9	-1753/0	-77.4	-77.4	4.61	14-9	-343/0	0.44 (1)
9-10	-2002/0	-77.4	-77.4	4.34	13-9	-183/47	0.08 (1)
10-11	0/29	-77.4	-77.4	10.00	2-19	0/1717	0.39 (1)
20-2	-1714/0	0.0	0.0	6.36	13-10	0/1717	0.39 (1)
12-10	-1714/0	0.0	0.0	6.36			
20-19	0/0	-17.5	-17.5	10.00			
19-18	0/1891	-17.5	-17.5	10.00			
18-17	0/1434	-17.5	-17.5	10.00			
17-16	0/1434	-17.5	-17.5	10.00			
16-15	0/1434	-17.5	-17.5	10.00			
15-14	0/1434	-17.5	-17.5	10.00			
14-13	0/1691	-17.5	-17.5	10.00			
13-12	0/0	-17.5	-17.5	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP	CH.	LL =	23.3	PSF
		DL =	3.0	PSF
BOT	CH.	LL =	0.0	PSF
		DL =	7.0	PSF
TOTAL LOAD		=	33.3	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 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.16")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.16")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.15")

CSI: TC=0.46/1.00 (9-10:1), BC=0.34/1.00 (13-14:1), WB=0.44/1.00 (9-14:1), SSI=0.20/1.00 (5-6:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

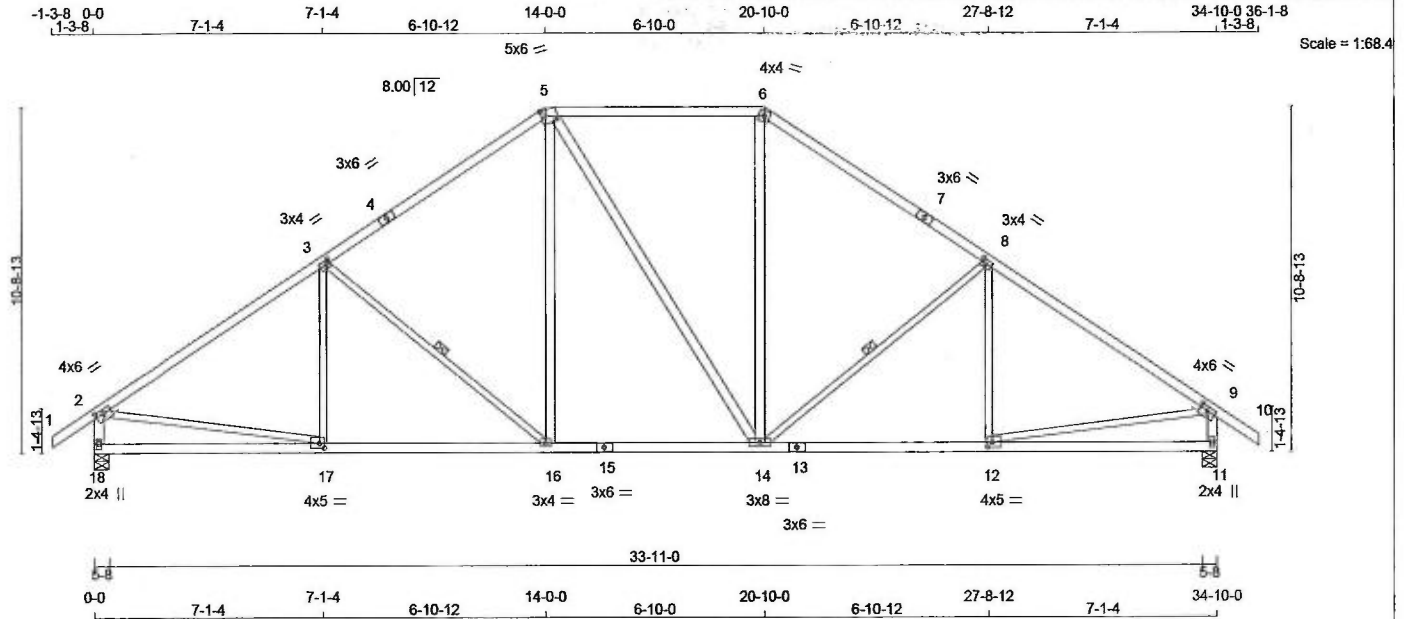
JSI GRIP= 0.90 (5) (INPUT = 0.90)
JSI METAL= 0.55 (2) (INPUT = 1.00)

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.**





TOTAL WEIGHT = 163 lb [M]F

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
5 - 6	2x4	DRY	No.2	SPF
6 - 7	2x4	DRY	No.2	SPF
7 - 10	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
11 - 9	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 11	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
16 - 5	2x4	DRY	No.2	SPF
5 - 14	2x4	DRY	No.2	SPF
14 - 6	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.50	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTWW-m	MT20	5.0	6.0	2.25	1.50
6	TTW-m	MT20	4.0	4.0		
7	TS-t	MT20	3.0	6.0		
8	TMWW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-t	MT20	4.0	6.0	1.50	3.00
11	BMV1+p	MT20	2.0	4.0		
12	BMWW-t	MT20	4.0	5.0	1.75	1.75
13	BS-t	MT20	3.0	6.0		
14	BMWW-t	MT20	3.0	8.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	5.0	1.75	1.75
18	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
18	1758	0	1758	0
11	1758	0	1758	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
18	1232	875 / 0	0 / 0
11	1232	875 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 11

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.09 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 3-16, 8-14. DBS = 20-0-0. CBF = 60 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)	LC1 MAX (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX (LC)
FR-TO		FROM	TO	FR-TO		FROM	TO
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	17-3	-121 / 81	0.07 (1)
2-3	-2007 / 0	-77.4	-77.4 0.66 (1)	4.09	3-16	-483 / 0	0.28 (1)
3-4	-1634 / 0	-77.4	-77.4 0.59 (1)	4.50	16-5	0 / 423	0.07 (1)
4-5	-1634 / 0	-77.4	-77.4 0.59 (1)	4.50	5-14	0 / 0	0.00 (1)
5-6	-1334 / 0	-77.4	-77.4 0.50 (1)	4.97	14-6	0 / 424	0.07 (1)
6-7	-1634 / 0	-77.4	-77.4 0.59 (1)	4.50	14-8	-483 / 0	0.28 (1)
7-8	-1634 / 0	-77.4	-77.4 0.59 (1)	4.50	12-8	-122 / 81	0.07 (1)
8-9	-2007 / 0	-77.4	-77.4 0.66 (1)	4.09	2-17	0 / 1719	0.39 (1)
9-10	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-9	0 / 1719	0.39 (1)
18-2	-1707 / 0	0.0	0.0 0.18 (1)	6.36			
11-9	-1707 / 0	0.0	0.0 0.18 (1)	6.36			
18-17	0 / 0	-17.5	-17.5 0.21 (4)	10.00			
17-16	0 / 1700	-17.5	-17.5 0.38 (1)	10.00			
16-15	0 / 1333	-17.5	-17.5 0.30 (1)	10.00			
15-14	0 / 1333	-17.5	-17.5 0.30 (1)	10.00			
14-13	0 / 1700	-17.5	-17.5 0.38 (1)	10.00			
13-12	0 / 1700	-17.5	-17.5 0.38 (1)	10.00			
12-11	0 / 0	-17.5	-17.5 0.21 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.0 PSF	
TOTAL LOAD = 33.3 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, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, CBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.16")
CALCULATED VERT. DEFL.(LL)= L/999 (0.08")
ALLOWABLE DEFL.(TL)= L/360 (1.16")
CALCULATED VERT. DEFL.(TL)= L/999 (0.16")

CSI: TC=0.66/1.00 (2-3:1), BC=0.39/1.00 (16-17:1), WB=0.39/1.00 (2-17:1), SSI=0.22/1.00 (8-9:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

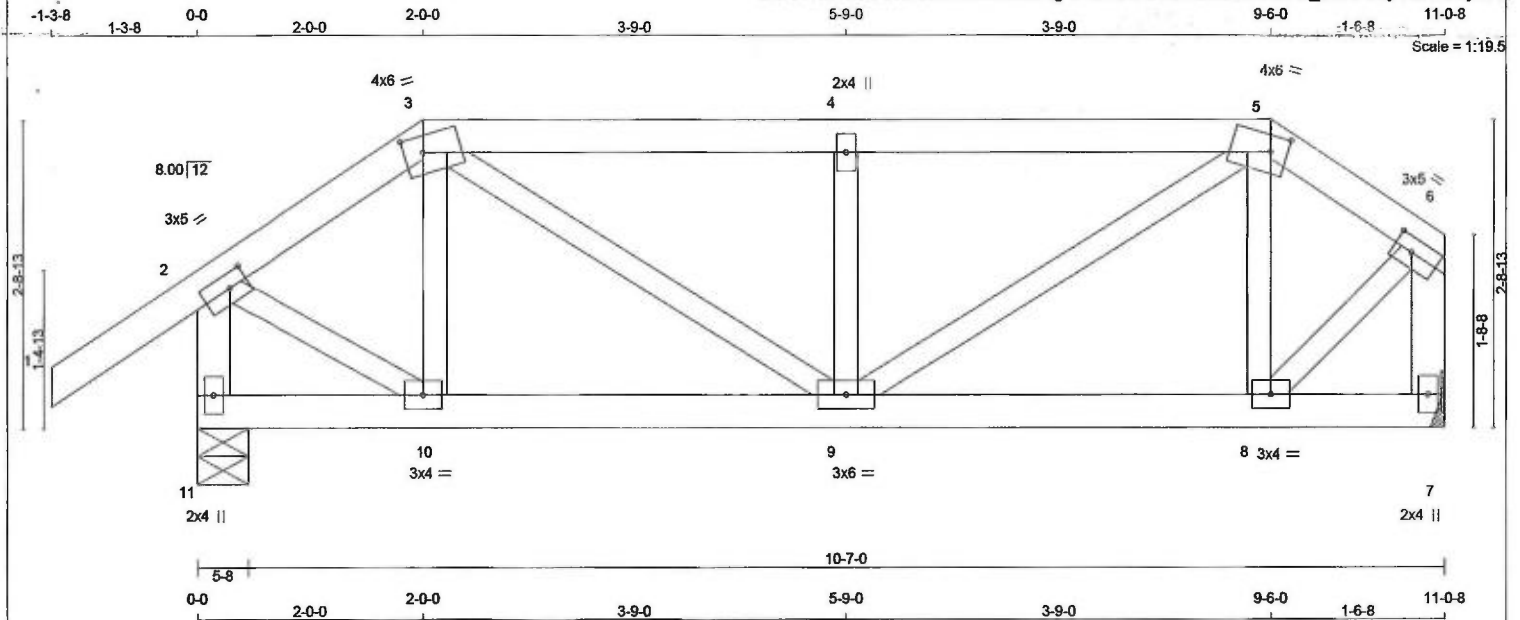
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (18) (INPUT = 0.90)
JSI METAL= 0.55 (2) (INPUT = 1.00)



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 = 46 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 5	2x4	DRY	No.2
5 - 6	2x4	DRY	No.2
11 - 2	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
11 - 7	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-I	MT20	3.0	5.0	1.50	2.00
3	TTWW-m	MT20	4.0	6.0	1.75	2.00
4	TMW+w	MT20	2.0	4.0		
5	TTWW-m	MT20	4.0	6.0	1.75	1.75
6	TMVW-I	MT20	3.0	5.0	1.50	2.00
7	BMV1+p	MT20	2.0	4.0		
8	BMWW-I	MT20	3.0	4.0		
9	BMWWW-I	MT20	3.0	6.0		
10	BMWW-I	MT20	3.0	4.0		
11	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
11	630	0	630	0	5-8	5-8
7	524	0	524	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 7 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
11	440	321 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
7	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

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

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 (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO				FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10-3	-127 / 6	10.00	0.02 (1)
2-3	-443 / 0	-77.4	-77.4 0.05 (1)	6-25	3-9	0 / 336	0.08 (1)
3-4	-643 / 0	-77.4	-77.4 0.17 (1)	6-25	9-4	-350 / 0	0.06 (1)
4-5	-643 / 0	-77.4	-77.4 0.17 (1)	6-25	9-5	0 / 415	0.09 (1)
5-6	-367 / 0	-77.4	-77.4 0.03 (1)	6-25	8-5	-195 / 0	0.03 (1)
11-2	-620 / 0	0.0	0.0 0.06 (1)	7-81	2-10	0 / 413	0.09 (1)
7-6	-521 / 0	0.0	0.0 0.06 (1)	7-81	8-6	0 / 397	0.09 (1)
11-10	0 / 0	-17.5	-17.5 0.04 (4)	10-00			
10-9	0 / 362	-17.5	-17.5 0.08 (1)	10-00			
9-8	0 / 295	-17.5	-17.5 0.07 (1)	10-00			
8-7	0 / 0	-17.5	-17.5 0.03 (4)	10-00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.17/1.00 (4-5:1), BC=0.08/1.00 (9-10:1), WB=0.09/1.00 (5-9:1), SSI=0.14/1.00 (3-4:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

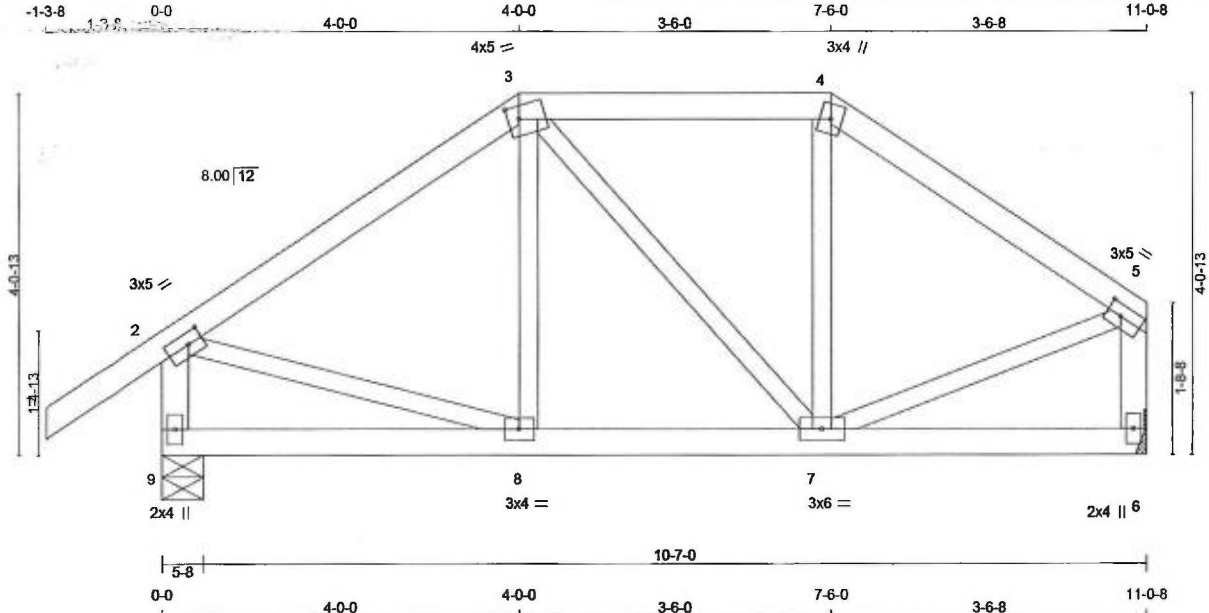
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (6) (INPUT = 0.90)
JSI METAL= 0.16 (2) (INPUT = 1.00)



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 = 47 lb [M][F]

LUMBER					
N. L. G. A. RULES					
CHORDS	SIZE		LUMBER	DESCR	
1 - 3	2x4	DRY	No.2	SPF	
3 - 4	2x4	DRY	No.2	SPF	
4 - 5	2x4	DRY	No.2	SPF	
9 - 2	2x4	DRY	No.2	SPF	
6 - 5	2x4	DRY	No.2	SPF	
9 - 6	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
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	5.0	1.50	2.00
6	BMV1+p	MT20	2.0	4.0		
7	BMWW-t	MT20	3.0	6.0		
8	BMWW-t	MT20	3.0	4.0		
9	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 IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
9	630	0	630	0	5-8	5-8
6	524	0	524	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	440	321 / 0	0 / 0	0 / 0	0 / 0	119 / 0	0 / 0
6	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9

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 CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	8-3	-24 / 52	0.02 (4)
2-3	-437 / 0	-77.4 -77.4	0.16 (1)	6.25	3-7	-32 / 0	0.01 (1)
3-4	-341 / 0	-77.4 -77.4	0.12 (1)	6.25	7-4	-43 / 41	0.01 (4)
4-5	-412 / 0	-77.4 -77.4	0.13 (1)	6.25	2-8	0 / 375	0.08 (1)
9-2	-599 / 0	0.0 0.0	0.06 (1)	7.81	7-5	0 / 366	0.08 (1)
6-5	-496 / 0	0.0 0.0	0.05 (1)	7.81			
9-8	0 / 0	-17.5 -17.5	0.06 (4)	10.00			
8-7	0 / 362	-17.5 -17.5	0.09 (1)	10.00			
7-6	0 / 0	-17.5 -17.5	0.05 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
DL = 3.0	PSF	
BOT CH.	LL = 0.0	PSF
DL = 7.0	PSF	
TOTAL LOAD = 33.3	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, NBC 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.01")

CSI: TC=0.16/1.00 (2-3:1), BC=0.09/1.00 (7-8:1), WB=0.08/1.00 (2-8:1), SSI=0.11/1.00 (3-4:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

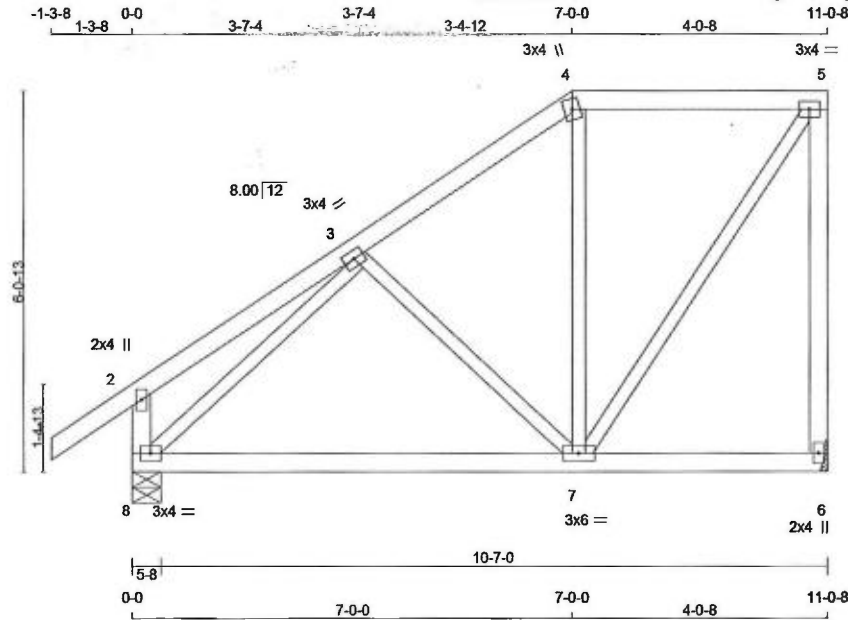
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.67 (7) (INPUT = 0.90)
JSI METAL= 0.17 (2) (INPUT = 1.00)



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 = 53 lb [M]F

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 5	2x4	DRY	No.2	SPF
6 - 5	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 6	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
2	TMV+p	MT20	2.0	4.0		
3	TMWW-t	MT20	3.0	4.0		
4	TTW+m	MT20	3.0	4.0		
5	TMVW-t	MT20	3.0	4.0		
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	3.0	6.0		
8	BMVW1-t	MT20	3.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
6	524	0	524	0
8	630	0	630	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
6	368	257 / 0	0 / 0
8	440	321 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8

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	FACTORED		MEMB.	MAX. FACTORED	FACTORED	
	FORCE (LBS)	VERT. LOAD (PLF)	CS1 (LC)		FORCE (LBS)	MAX CS1 (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	3-7	-187 / 0	0.08 (1)
2-3	0 / 18	-77.4 -77.4	0.15 (1)	10.00	7-4	-98 / 27	0.06 (1)
3-4	-310 / 0	-77.4 -77.4	0.12 (1)	6.25	7-5	0 / 427	0.10 (1)
4-5	-241 / 0	-77.4 -77.4	0.16 (1)	6.25	8-3	-529 / 0	0.20 (1)
6-5	-509 / 0	0.0	0.0	0.36 (1)			
8-2	-209 / 0	0.0	0.0	0.02 (1)			
8-7	0 / 378	-17.5 -17.5	0.21 (4)	10.00			
7-6	0 / 0	-17.5 -17.5	0.19 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	PSF

SPACING = 24.0 IN./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, NBC 2010

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.37")
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")
ALLOWABLE DEFL.(TL) = L/360 (0.37")
CALCULATED VERT. DEFL.(TL) = L/999 (0.07")

CSI: TC=0.36/1.00 (5-6:1), BC=0.21/1.00 (7-8:4), WB=0.20/1.00 (3-8:1), SSI=0.12/1.00 (4-5:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

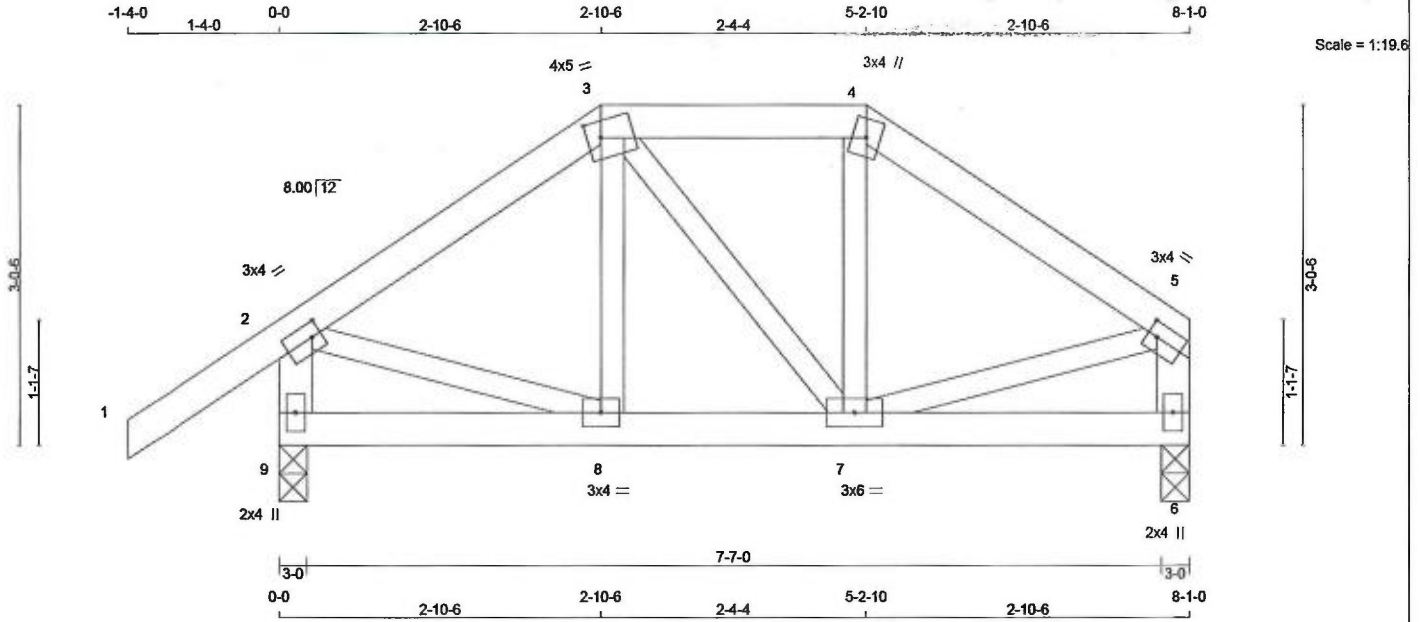
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (7) (INPUT = 0.90)
JSI METAL= 0.18 (3) (INPUT = 1.00)



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 = 34 lb (M/F)

CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
9 - 2	2x4	DRY	No.2
6 - 5	2x4	DRY	No.2
9 - 6	2x4	DRY	No.2

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

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-I	MT20	3.0	4.0	1.50	1.00
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTW+m	MT20	3.0	4.0		
5	TMVW-I	MT20	3.0	4.0	1.50	1.00
6	BMV1+p	MT20	2.0	4.0		
7	BMWWW-I	MT20	3.0	6.0		
8	BMWW-I	MT20	3.0	4.0		
9	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQD	
JT	VERT	GROSS REACTION	DOWN	GROSS REACTION	DOWN	BRG	IN-SX	BRG	IN-SX
9	493	0	493	0	0	3-0	3-0		
6	383	0	383	0	0	3-0	3-0		

UNFACTORED REACTIONS							
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
9	343	254 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
6	269	188 / 0	0 / 0	0 / 0	0 / 0	81 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 9, 6

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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED MAX. CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 30	-77.4 -77.4	0.11 (1)	10.00	8-3	-24 / 32	0.01 (4)
2-3	-320 / 0	-77.4 -77.4	0.08 (1)	6.25	3-7	0 / 0	0.00 (1)
3-4	-264 / 0	-77.4 -77.4	0.06 (1)	6.25	7-4	-24 / 33	0.01 (4)
4-5	-319 / 0	-77.4 -77.4	0.08 (1)	6.25	2-8	0 / 275	0.06 (1)
9-2	-470 / 0	0.0 0.0	0.05 (1)	7.81	7-5	0 / 275	0.06 (1)
6-5	-360 / 0	0.0 0.0	0.04 (1)	7.81			
9-8	0 / 0	-17.5 -17.5	0.03 (4)	10.00			
8-7	0 / 264	-17.5 -17.5	0.05 (1)	10.00			
7-6	0 / 0	-17.5 -17.5	0.03 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

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

(55 % OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")

CSI: TC=0.11/1.00 (1-2:1), BC=0.05/1.00 (7-8:1), WB=0.06/1.00 (2-8:1), SSI=0.07/1.00 (4-5:1)

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.

PLATE	GRIP(DRY)	SHEAR	SECTION
	(PSI)	(PLI)	(PLI)
MT20	618	354	1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

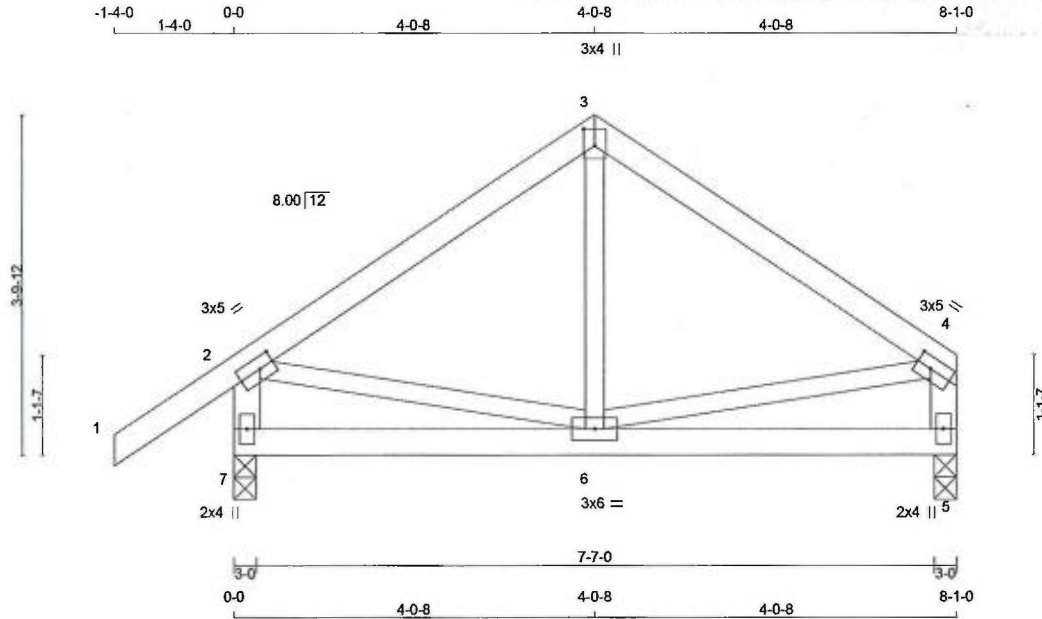
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (2) (INPUT = 0.90)
JSI METAL= 0.17 (2) (INPUT = 1.00)



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 = 1:24.7

TOTAL WEIGHT = 33 lb (M/F)

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
7 - 2	2x4	DRY	No.2
5 - 4	2x4	DRY	No.2
7 - 5	2x4	DRY	No.2
ALL WEBS EXCEPT		2x3	DRY No.2 SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
5	BMV1+p	MT20	2.0	4.0		
6	BMWW-t	MT20	3.0	6.0		
7	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
7		493	0	493	0	0	3-0	3-0	3-0
5		383	0	383	0	0	3-0	3-0	3-0

UNFACTORED REACTIONS

1ST LCASE		MAX/MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
7	343	254 / 0	0 / 0	0 / 0	0 / 0	89 / 0	0 / 0
5	269	188 / 0	0 / 0	0 / 0	0 / 0	81 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7, 5

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. FACTORED VERT. LOAD (LC1) (PLF)	MAX. FACTORED VERT. LOAD (LC2) (PLF)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED VERT. LOAD (LC1) (PLF)
FR-TO					FR-TO		
1-2	0 / 30	-77.4	-77.4	0.11 (1)	6-3	-5 / 68	0.02 (4)
2-3	-277 / 0	-77.4	-77.4	0.16 (1)	2-6	0 / 235	0.05 (1)
3-4	-277 / 0	-77.4	-77.4	0.16 (1)	6-4	0 / 235	0.05 (1)
7-2	-465 / 0	0.0	0.0	0.05 (1)			
5-4	-356 / 0	0.0	0.0	0.04 (1)			
7-6	0 / 0	-17.5	-17.5	0.08 (4)	10.00		
6-5	0 / 0	-17.5	-17.5	0.08 (4)	10.00		

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	PSF

SPACING = 24.0 IN. C/C

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

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.27")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.27")
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.16/1.00 (3-4:1), BC=0.08/1.00 (6-7:4), WB=0.05/1.00 (2-6:1), SSI=0.10/1.00 (2-3:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

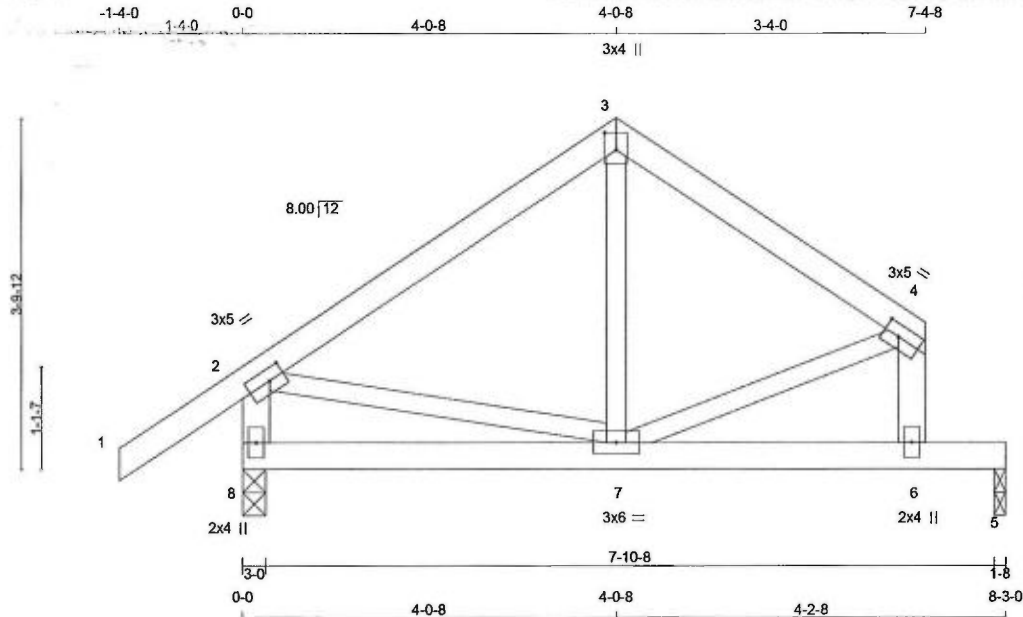
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.51 (6) (INPUT = 0.90)
JSI METAL= 0.13 (4) (INPUT = 1.00)



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: 1/2"=1'

TOTAL WEIGHT = 2 X 32 = 64 lb

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 5	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
2	TMVW-t	MT20	3.0	5.0	1.50	2.00
3	TTW+p	MT20	3.0	4.0	2.25	1.50
4	TMVW-t	MT20	3.0	5.0	1.50	2.00
6	BMV+p	MT20	2.0	4.0		
7	BMWWW-t	MT20	3.0	6.0		
8	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
8	501	0	501	0	0	3-0	3-0		
5	391	0	391	0	0	1-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
8	349	258 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
5	275	192 / 0	0 / 0	0 / 0	0 / 0	83 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)		
FR-TO		FROM TO			FR-TO				
1-2	0 / 30	-77.4	-77.4	0.11 (1)	10.00	7-3	0 / 80	0.03 (4)	
2-3	-309 / 0	-77.4	-77.4	0.22 (1)	6.25	2-7	0 / 261	0.06 (1)	
3-4	-311 / 0	-77.4	-77.4	0.15 (1)	6.25	7-4	0 / 279	0.06 (1)	
8-2	-486 / 0	0.0	0.0	0.05 (1)	7.81				
6-4	-405 / 0	0.0	0.0	0.04 (1)	7.81				
8-7	0 / 0	-17.5	-17.5	0.12 (1)	10.00				
7-6	0 / 0	-17.5	-17.5	0.42 (1)	10.00				
6-5	0 / 0	-94.9	-94.9	0.42 (1)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	DL	PSF
	23.3	3.0	PSF
BOT CH.	LL	DL	PSF
	0.0	7.0	PSF
TOTAL LOAD = 33.3 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.28")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL)= L/360 (0.28")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.22/1.00 (2-3:1), BC=0.42/1.00 (5-6:1), WB=0.06/1.00 (4-7:1), SSI=0.31/1.00 (5-6:1)

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)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

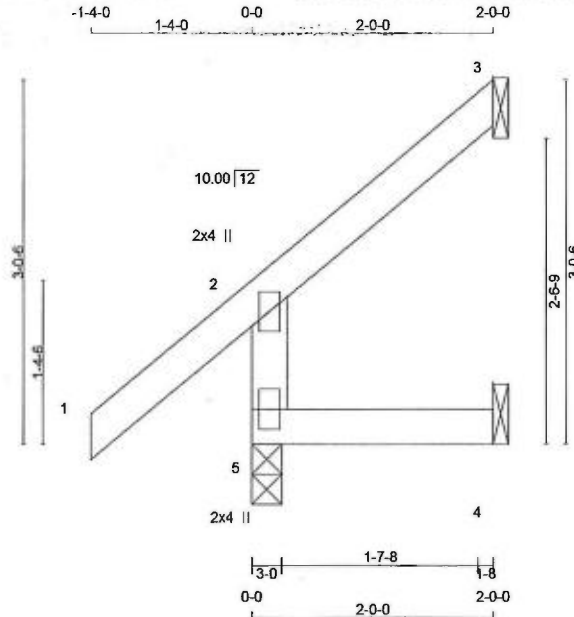
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.57 (7) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)



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 = 1:18.3

TOTAL WEIGHT = 3 X 9 = 26 lb

LUMBER			
N. L. G. A. RULES	SIZE	LUMBER	DESCR.
CHORDS			SPF
5 - 2	2x4	DRY	No.2
1 - 3	2x4	DRY	No.2
5 - 4	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
5	226	0	226	0	3-0	3-0
3	58	0	58	0	1-8	1-8
4	16	0	18	0	1-8	1-8

SEE MITEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	156	124 / 0	0 / 0	0 / 0	0 / 0	31 / 0	0 / 0
3	40	35 / 0	0 / 0	0 / 0	0 / 0	5 / 0	0 / 0
4	13	0 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

BRACING

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

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

LOADING

TOTAL LOAD CASES: (5)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED LC1 MAX. (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED (LC)
FR-TO		FROM TO			FR-TO		
5-2	-207 / 0	0.0	0.0 0.01 (4)	7.81			
1-2	0 / 35	-77.4	-77.4 0.11 (1)	10.00			
2-3	-12 / 0	-77.4	-77.4 0.05 (1)	6.25			
5-4	0 / 0	-17.5	-17.5 0.02 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3 PSF
DL = 3.0 PSF	
BOT CH.	LL = 0.0 PSF
DL = 7.0 PSF	
TOTAL LOAD = 33.3 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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.11/1.00 (1-2:1), BC=0.02/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.07/1.00 (1-2:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

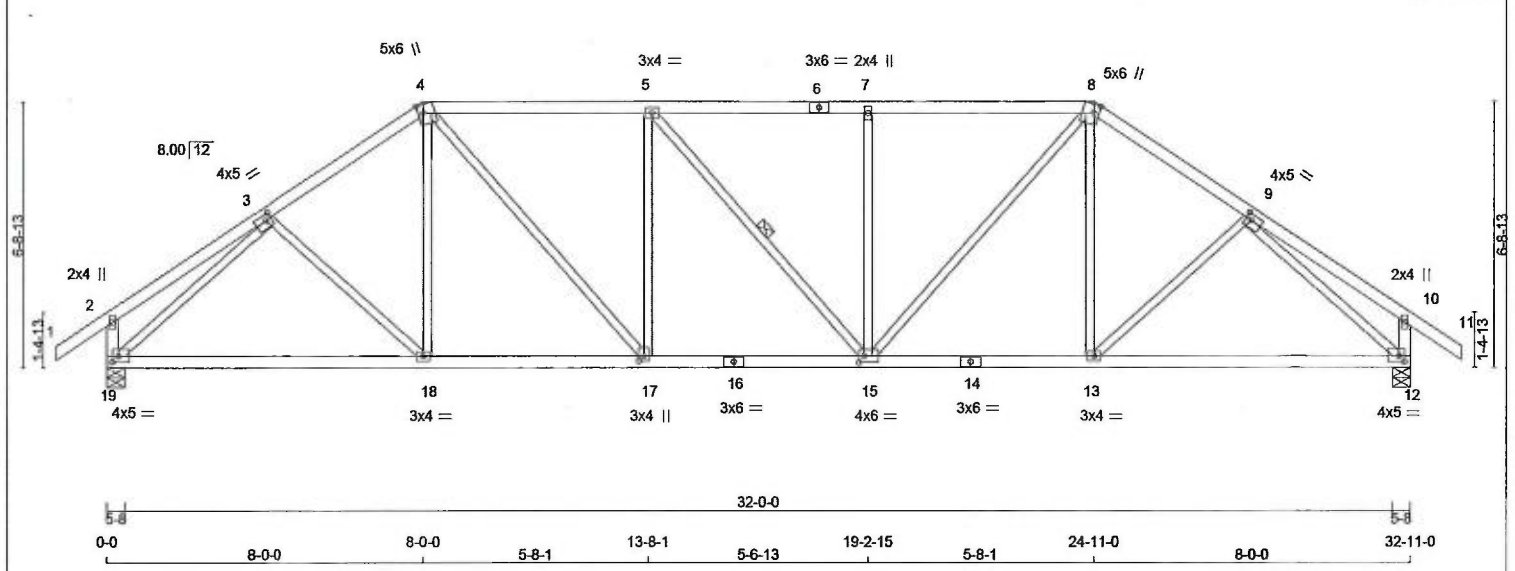
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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.
1 - 4 2x4 DRY No.2 SPF
4 - 6 2x4 DRY No.2 SPF
6 - 8 2x4 DRY No.2 SPF
8 - 11 2x4 DRY No.2 SPF
19 - 2 2x4 DRY No.2 SPF
12 - 10 2x4 DRY No.2 SPF
19 - 16 2x4 DRY No.2 SPF
16 - 14 2x4 DRY No.2 SPF
14 - 12 2x4 DRY No.2 SPF
ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

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	
19	1667	0	1667	0	0	5-8	5-8	5-8	
12	1667	0	1667	0	0	5-8	5-8	5-8	

UNFACTORED REACTIONS
1ST LCASE MAX./MIN. COMPONENT REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
19	1168	830 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0
12	1168	830 / 0	0 / 0	0 / 0	0 / 0	337 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 19, 12

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.36 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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 5-15. DBS = 20-0-0. CBF = 0 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	FACTORED MAX FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	0 / 29	-77.4 -77.4	0.10 (1)	10.00	3-18	0 / 60	0.02 (4)
2-3	0 / 18	-77.4 -77.4	0.18 (1)	10.00	18-4	0 / 134	0.04 (4)
3-4	-1806 / 0	-77.4 -77.4	0.24 (1)	4.75	4-17	0 / 742	0.17 (1)
4-5	-1978 / 0	-77.4 -77.4	0.43 (1)	4.36	17-5	-471 / 0	0.36 (1)
5-6	-1977 / 0	-77.4 -77.4	0.43 (1)	4.36	5-15	-2 / 0	0.00 (1)
6-7	-1977 / 0	-77.4 -77.4	0.43 (1)	4.36	15-7	-470 / 0	0.36 (1)
7-8	-1977 / 0	-77.4 -77.4	0.43 (1)	4.37	15-8	0 / 740	0.17 (1)
8-9	-1806 / 0	-77.4 -77.4	0.24 (1)	4.75	13-8	0 / 135	0.04 (4)
9-10	0 / 18	-77.4 -77.4	0.18 (1)	10.00	13-9	0 / 60	0.02 (4)
10-11	0 / 29	-77.4 -77.4	0.10 (1)	10.00	19-3	-2020 / 0	0.99 (1)
19-2	-227 / 0	0.0 0.0	0.02 (1)	7.81	9-12	-2020 / 0	0.99 (1)
12-10	-227 / 0	0.0 0.0	0.02 (1)	7.81			
19-18	0 / 1474	-17.5 -17.5	0.37 (1)	10.00			
18-17	0 / 1487	-17.5 -17.5	0.37 (1)	10.00			
17-16	0 / 1978	-17.5 -17.5	0.37 (1)	10.00			
16-15	0 / 1978	-17.5 -17.5	0.37 (1)	10.00			
15-14	0 / 1487	-17.5 -17.5	0.37 (1)	10.00			
14-13	0 / 1487	-17.5 -17.5	0.37 (1)	10.00			
13-12	0 / 1474	-17.5 -17.5	0.37 (1)	10.00			

DESIGN CRITERIA
SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

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

(55 % OF 27.2 P.S.F. G.S.I. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.10")
CALCULATED VERT. DEFL.(LL) = L/999 (0.10")
ALLOWABLE DEFL.(TL) = L/360 (1.10")
CALCULATED VERT. DEFL.(TL) = L/999 (0.19")

CSI: TC=0.43/1.00 (4-5:1), BC=0.37/1.00 (15-17:1), WB=0.99/1.00 (9-12:1), SSI=0.20/1.00 (4-5:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

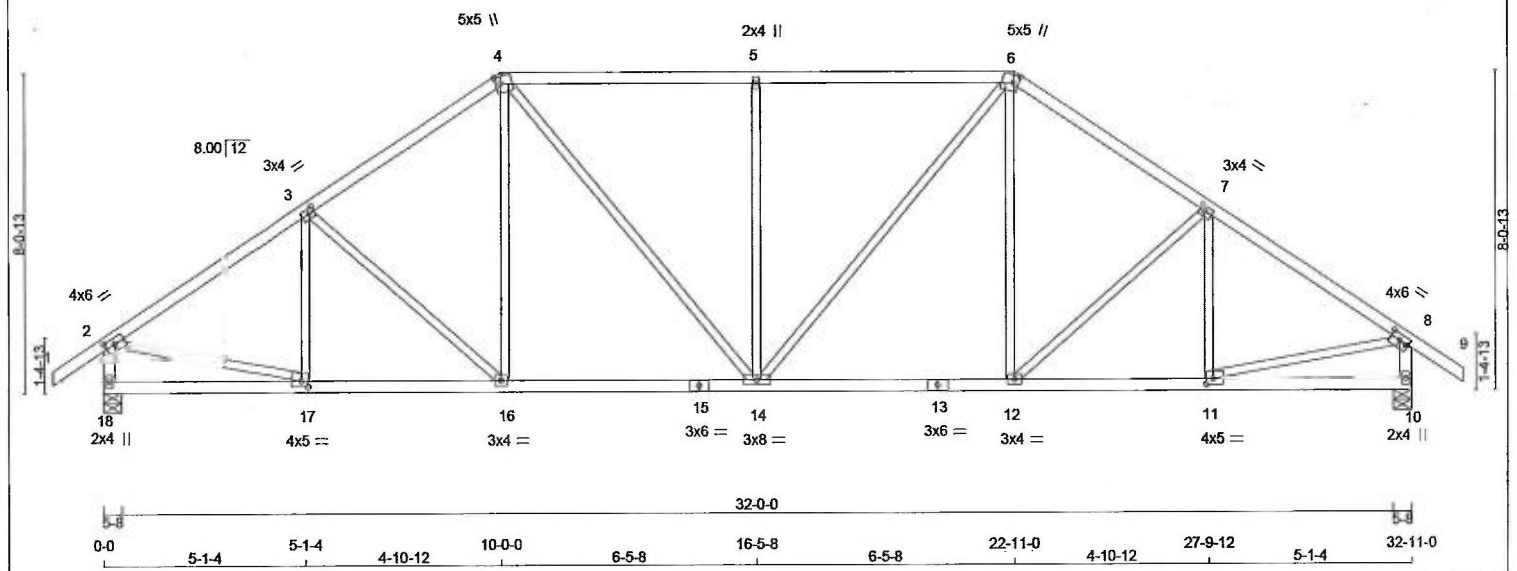
JSI GRIP= 0.88 (12) (INPUT = 0.90)
JSI METAL= 0.60 (9) (INPUT = 1.00)



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.

KOTT

Version 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 17:14:58 2018 Page 1
 ID:FFZ2vRdY6rWmN0vQBsl0Cz48?g-V?dv?gU4wqqSkgrRpLrvVK8IWodXF4CIQ0FaGMynYeh
 32-11-0 34-2-8
 Scale = 1:55.6



LUMBER
 N. L. G. A. RULES

CHORDS	SIZE	DRY	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
4 - 6	2x4	DRY	No.2	SPF
6 - 9	2x4	DRY	No.2	SPF
18 - 2	2x4	DRY	No.2	SPF
10 - 8	2x4	DRY	No.2	SPF
18 - 15	2x4	DRY	No.2	SPF
15 - 13	2x4	DRY	No.2	SPF
13 - 10	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
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TTWW+m	MT20	5.0	5.0	2.25	1.50
5	TMW+w	MT20	2.0	4.0		
6	TTWW+m	MT20	5.0	5.0	2.25	1.50
7	TMWW-t	MT20	3.0	4.0	1.50	1.50
8	TMVW-t	MT20	4.0	6.0	1.75	3.00
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	4.0	5.0	1.75	2.00
12	BMWW-t	MT20	3.0	4.0		
13	BS-t	MT20	3.0	6.0		
14	BMWWW-t	MT20	3.0	8.0		
15	BS-t	MT20	3.0	6.0		
16	BMWW-t	MT20	3.0	4.0		
17	BMWW-t	MT20	4.0	5.0	1.75	2.00
18	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 IN-SX	REQRD BRG IN-SX
	VERT	HORZ	DOWN	HORZ		
18	1667	0	1667	0	5-8	5-8
10	1667	0	1667	0	5-8	5-8

UNFACTORED REACTIONS

JT	1ST LCASE MAX./MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
18	1168	830 / 0	0 / 0	0 / 0	0 / 0	337 / 0
10	1168	830 / 0	0 / 0	0 / 0	0 / 0	337 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 18, 10

BRACING
 TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.57 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 (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC LENGTH
FR-TO					FR-TO		
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	17-3	-240 / 10	0.08 (1)
2-3	-1849 / 0	-77.4	-77.4 0.30 (1)	4.66	3-16	-208 / 0	0.17 (1)
3-4	-1716 / 0	-77.4	-77.4 0.29 (1)	4.81	16-4	0 / 241	0.05 (1)
4-5	-1710 / 0	-77.4	-77.4 0.47 (1)	4.57	4-14	0 / 473	0.11 (1)
5-6	-1710 / 0	-77.4	-77.4 0.47 (1)	4.57	14-5	-613 / 0	0.77 (1)
6-7	-1716 / 0	-77.4	-77.4 0.29 (1)	4.81	14-6	0 / 473	0.11 (1)
7-8	-1849 / 0	-77.4	-77.4 0.30 (1)	4.66	12-6	0 / 241	0.05 (1)
8-9	0 / 29	-77.4	-77.4 0.10 (1)	10.00	12-7	-208 / 0	0.17 (1)
18-2	-1628 / 0	0.0	0.0 0.17 (1)	6.48	11-7	-240 / 10	0.08 (1)
10-8	-1628 / 0	0.0	0.0 0.17 (1)	6.48	2-17	0 / 1593	0.36 (1)
					11-8	0 / 1593	0.36 (1)
18-17	0 / 0	-17.5	-17.5 0.09 (4)	10.00			
17-16	0 / 1559	-17.5	-17.5 0.32 (1)	10.00			
16-15	0 / 1407	-17.5	-17.5 0.30 (1)	10.00			
15-14	0 / 1407	-17.5	-17.5 0.30 (1)	10.00			
14-13	0 / 1407	-17.5	-17.5 0.30 (1)	10.00			
13-12	0 / 1407	-17.5	-17.5 0.30 (1)	10.00			
12-11	0 / 1559	-17.5	-17.5 0.32 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.09 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
 TOP CH. LL = 23.3 PSF
 DL = 3.0 PSF
 BOT CH. LL = 0.0 PSF
 DL = 7.0 PSF
 TOTAL LOAD = 33.3 PSF

SPACING = 24.0 IN./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 2010

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

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.10")
 CALCULATED VERT. DEFL.(LL)= L/999 (0.08")
 ALLOWABLE DEFL.(TL)= L/360 (1.10")
 CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.47/1.00 (4-5:1), BC=0.32/1.00 (16-17:1), WB=0.77/1.00 (5-14:1), SSI=0.24/1.00 (4-5:1)

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)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

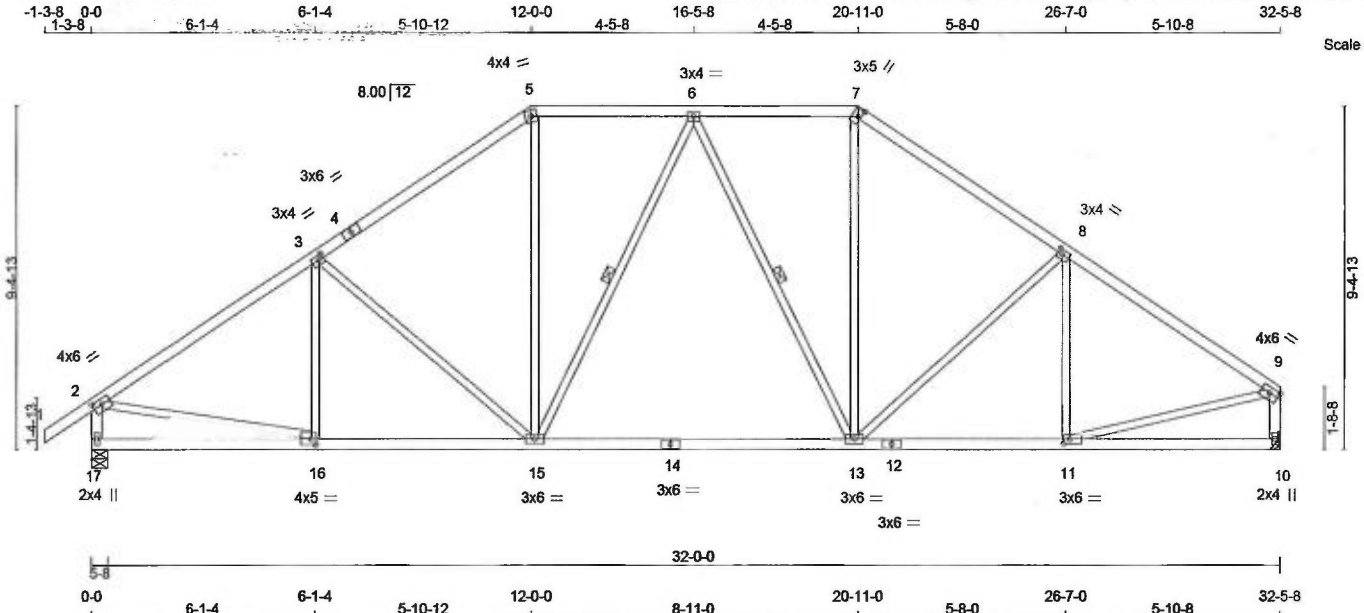
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (8) (INPUT = 0.90)
 JSI METAL= 0.50 (8) (INPUT = 1.00)



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.
1 - 4	2x4	DRY	No.2
4 - 5	2x4	DRY	No.2
5 - 7	2x4	DRY	No.2
7 - 9	2x4	DRY	No.2
17 - 2	2x4	DRY	No.2
10 - 9	2x4	DRY	No.2
17 - 14	2x4	DRY	No.2
14 - 12	2x4	DRY	No.2
12 - 10	2x4	DRY	No.2
ALL WEBS EXCEPT	2x3	DRY	No.2

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMVW-t	MT20	4.0	6.0	1.75	3.00
3	TMWW-t	MT20	3.0	4.0	1.50	1.50
4	TS-t	MT20	3.0	6.0		
5	TTW-m	MT20	4.0	4.0		
6	TMWW-t	MT20	3.0	4.0		
7	TTW-h	MT20	3.0	5.0	2.50	1.00
8	TMWW-t	MT20	3.0	4.0	1.50	1.50
9	TMVW-t	MT20	4.0	6.0	1.75	Edge
10	BMV1+p	MT20	2.0	4.0		
11	BMWW-t	MT20	3.0	6.0	1.50	2.00
12	BS-t	MT20	3.0	6.0		
13	BMWW-t	MT20	3.0	6.0		
14	BS-t	MT20	3.0	6.0		
15	BMWW-t	MT20	3.0	6.0		
16	BMWW-t	MT20	4.0	5.0	2.00	1.50
17	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
17	1646	0	1646	0	5-8	5-8
10	1540	0	1540	0	MECHANICAL	

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 10 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS							
	1ST LCASE	MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
17	1153	820 / 0	0 / 0	0 / 0	0 / 0	333 / 0	0 / 0
10	1080	756 / 0	0 / 0	0 / 0	0 / 0	325 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.50 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 6-15, 6-13. DBS = 20-0-0. CBF = 32 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)	MAX. FACTORED CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED CSI (LC)	
FR-TO		FROM	TO	FR-TO			
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	16-3	-170 / 41	0.08 (1)
2-3	-1839 / 0	-77.4	-77.4 0.45 (1)	4.50	3-15	-353 / 0	0.46 (1)
3-4	-1580 / 0	-77.4	-77.4 0.41 (1)	4.82	15-5	0 / 553	0.12 (1)
4-5	-1580 / 0	-77.4	-77.4 0.41 (1)	4.82	15-6	-206 / 0	0.15 (1)
5-6	-1293 / 0	-77.4	-77.4 0.21 (1)	5.46	6-13	-255 / 0	0.19 (1)
6-7	-1272 / 0	-77.4	-77.4 0.21 (1)	5.49	13-7	0 / 546	0.12 (1)
7-8	-1554 / 0	-77.4	-77.4 0.38 (1)	4.89	13-8	-267 / 0	0.34 (1)
8-9	-1729 / 0	-77.4	-77.4 0.40 (1)	4.67	11-8	-245 / 14	0.12 (1)
17-2	-1599 / 0	0.0	0.0 0.16 (1)	6.53	2-16	0 / 1579	0.36 (1)
10-9	-1495 / 0	0.0	0.0 0.16 (1)	6.71	11-9	0 / 1503	0.34 (1)
17-16	0 / 0	-17.5	-17.5 0.13 (4)	10.00			
16-15	0 / 1555	-17.5	-17.5 0.37 (1)	10.00			
15-14	0 / 1382	-17.5	-17.5 0.35 (1)	10.00			
14-13	0 / 1382	-17.5	-17.5 0.35 (1)	10.00			
13-12	0 / 1463	-17.5	-17.5 0.36 (1)	10.00			
12-11	0 / 1463	-17.5	-17.5 0.36 (1)	10.00			
11-10	0 / 0	-17.5	-17.5 0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 2010

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

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (1.08")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL) = L/360 (1.08")
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.45/1.00 (2-3:1), BC=0.37/1.00 (15-16:1), WB=0.46/1.00 (3-15:1), SSI=0.19/1.00 (2-3:1)

DOL LUMBER=1.00 NAIL=1.00 L.S 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) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1656

PLATE PLACEMENT TOL. = 0.250 inches

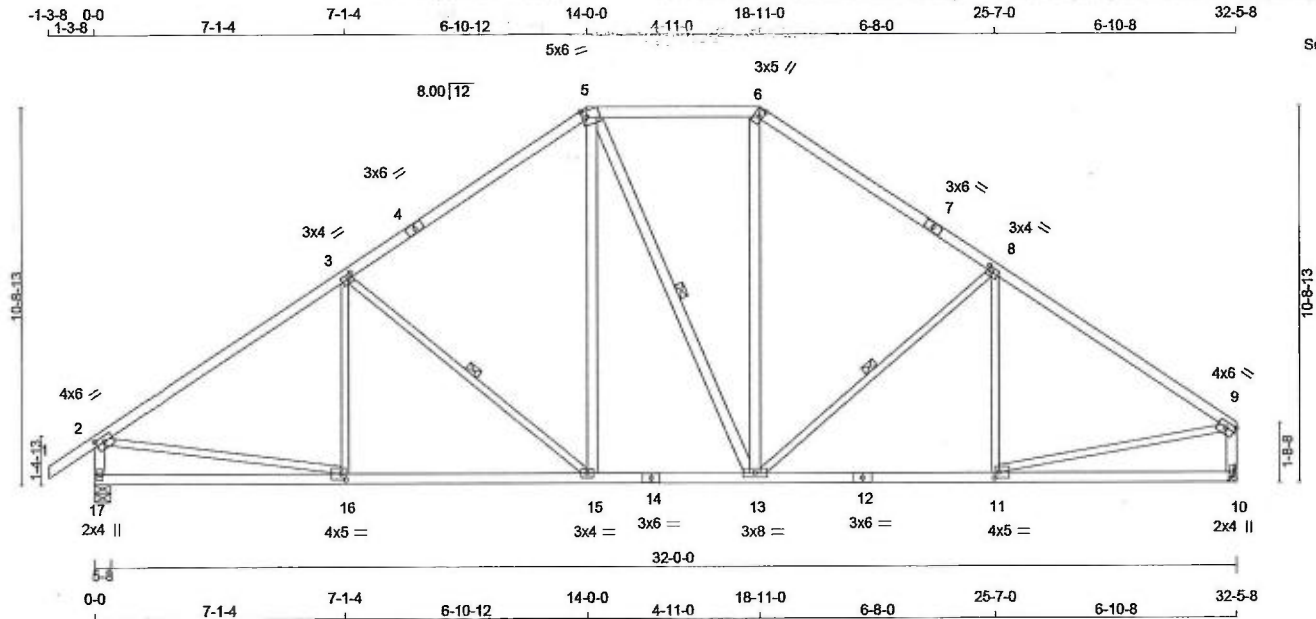
PLATE ROTATION TOL. = 5.0 Deg.

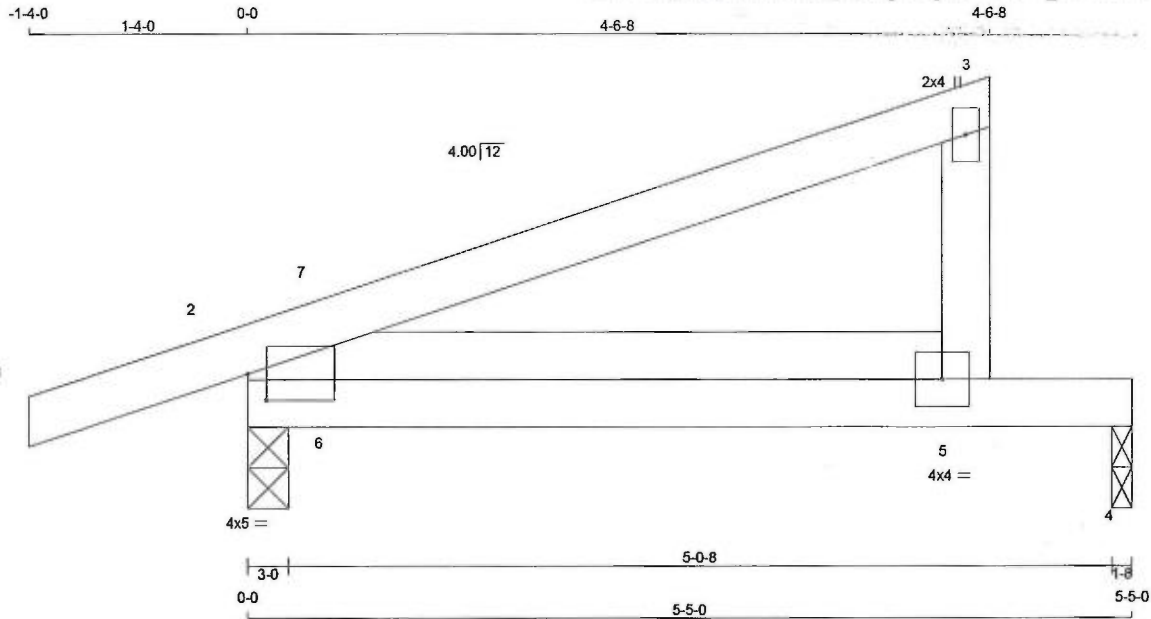
JSI GRIP= 0.90 (7) (INPUT = 0.90)
JSI METAL= 0.51 (14) (INPUT = 1.00)



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 = 7 X 20 = 140 lb [M]

LUMBER				
N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x4	DRY	No.2	SPF
2 - 4	2x4	DRY	No.2	SPF
REINFORCING MEMBERS				
HW1	2x4	DRY	No.2	SPF
DRY: SEASONED LUMBER.				

PLATES (table is in inches)						
JT	TYPE	PLATES	W	LEN	Y	X
2	TMBMW1-I	MT20	4.0	5.0	2.00	1.50
3	TMV+p	MT20	2.0	4.0		
5	BMVW-I	MT20	4.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	BRG	IN-SX
2	358	0	358	0	0	3-0	3-0		
4	195	0	195	0	0	1-8	1-8		

UNFACTORED REACTIONS

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS						
2	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
2	249	187 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0	
4	138	89 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0	

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

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 CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO			
1-2	0 / 5	-77.4 -77.4	0.10 (1)	10.00	5-7	-549 / 0	0.11 (1)
2-7	-617 / 0	-77.4 -77.4	0.13 (1)	6.25	6-7	0 / 211	0.00 (1)
7-3	0 / 4	-77.4 -77.4	0.15 (1)	10.00			
5-3	-135 / 0	0.0 0.0	0.02 (1)	7.81			
2-6	0 / 533	-17.5 -17.5	0.17 (1)	10.00			
6-5	0 / 533	-17.5 -17.5	0.34 (1)	10.00			
5-4	0 / 0	-17.5 -17.5	0.26 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.19")
CALCULATED VERT. DEFL.(LL)= L/ 999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.19")
CALCULATED VERT. DEFL.(TL)= L/ 881 (0.07")

CSI: TC=0.15/1.00 (3-7:1), BC=0.34/1.00 (5-6:1), WB=0.11/1.00 (5-7:1), SSI=0.15/1.00 (4-5:1)

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)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

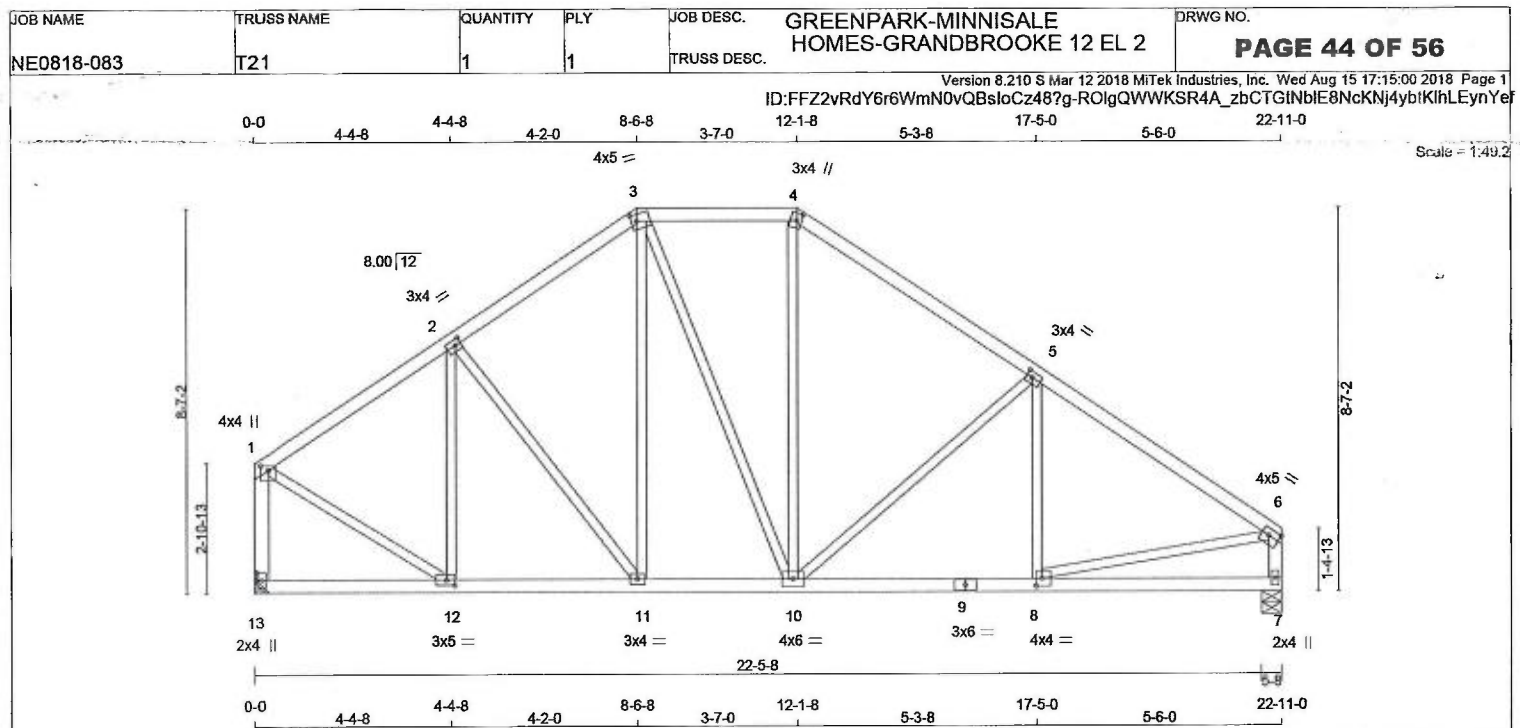
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.53 (5) (INPUT = 0.90)
JSI METAL= 0.20 (5) (INPUT = 1.00)



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.
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
4 - 6	2x4	DRY	No.2
13 - 1	2x4	DRY	No.2
7 - 6	2x4	DRY	No.2
13 - 9	2x4	DRY	No.2
9 - 7	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW+p	MT20	4.0	4.0	1.25	2.00
2	TTWW-l	MT20	3.0	4.0	1.50	1.50
3	TTWW-m	MT20	4.0	5.0	1.75	1.50
4	TTWW+m	MT20	3.0	4.0	2.00	1.25
5	TMWW-l	MT20	3.0	4.0	1.50	1.50
6	TMVW-l	MT20	4.0	5.0	1.75	Edge
7	BMV1+p	MT20	2.0	4.0		
8	BMVW-l	MT20	4.0	4.0	2.00	1.50
9	BS-l	MT20	3.0	6.0		
10	BMVWW-l	MT20	4.0	6.0		
11	BMVW-l	MT20	3.0	4.0		
12	BMVW-l	MT20	3.0	5.0	1.50	2.25
13	BMV1+p	MT20	2.0	4.0		

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

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

BEARINGS

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
13	1087	0	1087	0	0	MECHANICAL
7	1087	0	1087	0	5-8	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 13 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS				
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
13	763	534 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0
7	763	534 / 0	0 / 0	0 / 0	0 / 0	229 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.47 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.	FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX LC1 MAX CSI (LC)	MEMB.	FORCE (LBS)	FACTORED MAX UNBRAC LENGTH	MAX FACTORED CSI (LC)
FR-TO		FROM TO		FR-TO			
1-2	-864 / 0	-77.4 -77.4	0.19 (1)	12-2	-348 / 0	6.25	0.18 (1)
2-3	-869 / 0	-77.4 -77.4	0.19 (1)	2-11	-54 / 0	6.25	0.05 (1)
3-4	-751 / 0	-77.4 -77.4	0.13 (1)	6.25	11-3	0 / 101	0.03 (4)
4-5	-930 / 0	-77.4 -77.4	0.30 (1)	6.04	3-10	0 / 121	0.03 (1)
5-6	-1203 / 0	-77.4 -77.4	0.32 (1)	5.47	10-4	0 / 209	0.05 (1)
13-1	-1056 / 0	0.0 0.0	0.16 (1)	7.66	10-5	-367 / 0	0.37 (1)
7-6	-1047 / 0	0.0 0.0	0.11 (1)	7.68	8-5	-94 / 64	0.04 (1)
					1-12	0 / 855	0.19 (1)
13-12	0 / 0	-17.5 -17.5	0.08 (4)	10.00	8-6	0 / 1044	0.23 (1)
12-11	0 / 736	-17.5 -17.5	0.16 (1)	10.00			
11-10	0 / 705	-17.5 -17.5	0.15 (1)	10.00			
10-9	0 / 1024	-17.5 -17.5	0.23 (1)	10.00			
9-8	0 / 1024	-17.5 -17.5	0.23 (1)	10.00			
8-7	0 / 0	-17.5 -17.5	0.13 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	PSF
DL	23.3	PSF
BOT CH.	LL	PSF
DL	0.0	PSF
DL	7.0	PSF
TOTAL LOAD	33.3	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, NBCS 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.76")
CALCULATED VERT. DEFL.(LL)= L/999 (0.03")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL)= L/999 (0.06")

CSI: TC=0.32/1.00 (5-6:1), BC=0.23/1.00 (8-10:1),
WB=0.37/1.00 (5-10:1), SSI=0.17/1.00 (5-6:1)

DOL LUMBER=1.00 NAIL=1.00 L/S 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)	SHEAR (PSI)	SECTION (PLI)	MAX MIN	MAX MIN	MAX MIN
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

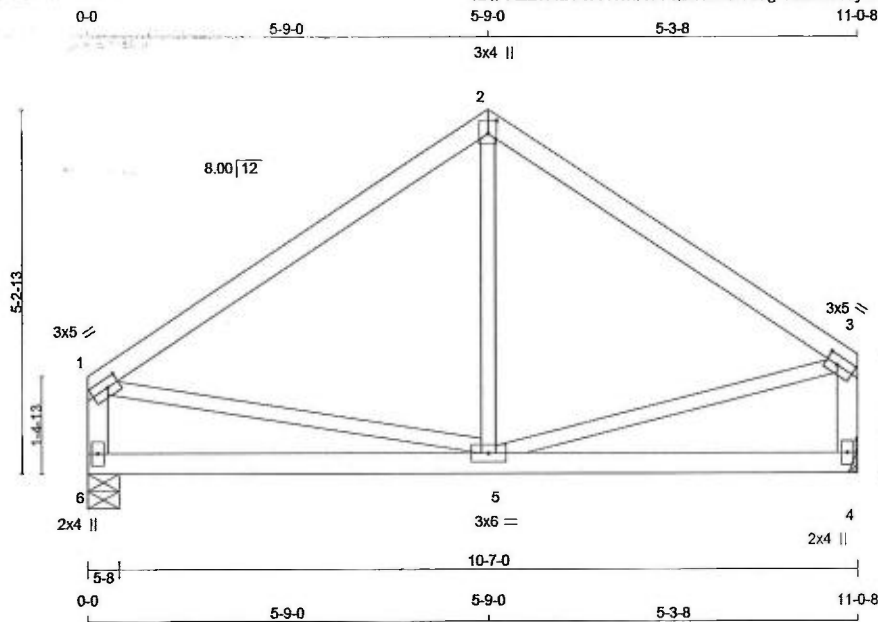
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (4) (INPUT = 0.90)
JSI METAL= 0.40 (6) (INPUT = 1.00)



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 = 43 [M]F

LUMBER			
N. L. G. A. RULES	CHORDS	SIZE	DESCR.
1 - 2	2x4	DRY	No.2
2 - 3	2x4	DRY	No.2
6 - 1	2x4	DRY	No.2
4 - 3	2x4	DRY	No.2
6 - 4	2x4	DRY	No.2
ALL WEBS 2x3 DRY No.2			
EXCEPT			

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMVW-1	MT20	3.0	5.0	1.50	2.00
2	TTW+p	MT20	3.0	4.0	2.25	1.50
3	TMVW-1	MT20	3.0	5.0	1.50	2.00
4	BMV1+p	MT20	2.0	4.0		
5	BMWW-t	MT20	3.0	6.0		
6	BMV1+p	MT20	2.0	4.0		

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

BEARINGS		FACTORED		MAXIMUM FACTORED		INPUT		REQRD	
JT	GROSS REACTION	VERT	HORZ	GROSS REACTION	DOWN	HORZ	BRG	BRG	IN-SX
6	524	0	524	0	0	5-8	5-8		
4	524	0	524	0	0	MECHANICAL			

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	368	257 / 0	0 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0
4	368	257 / 0	0 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	-368 / 0	-77.4 -77.4	0.33 (1)	6.25	5-2	-19 / 89	0.03 (4)
2-3	-367 / 0	-77.4 -77.4	0.28 (1)	6.25	1-5	0 / 311	0.07 (1)
6-1	-482 / 0	0.0 0.0	0.05 (1)	7.81	5-3	0 / 317	0.07 (1)
4-3	-492 / 0	0.0 0.0	0.05 (1)	7.81			
6-5	0 / 0	-17.5 -17.5	0.16 (4)	10.00			
5-4	0 / 0	-17.5 -17.5	0.16 (4)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD		=	33.3	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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")
CALCULATED VERT. DEFL.(LL)= L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL)= L/999 (0.03")

CSI: TC=0.33/1.00 (1-2-1), BC=0.16/1.00 (5-6-4), WB=0.07/1.00 (3-5-1), SSI=0.14/1.00 (1-2-1)

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) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 618 354 1667 822 2284 1658

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (5) (INPUT = 0.90)
JSI METAL= 0.15 (1) (INPUT = 1.00)

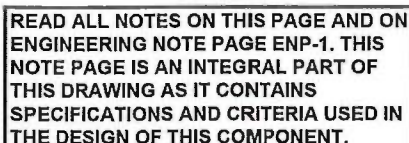


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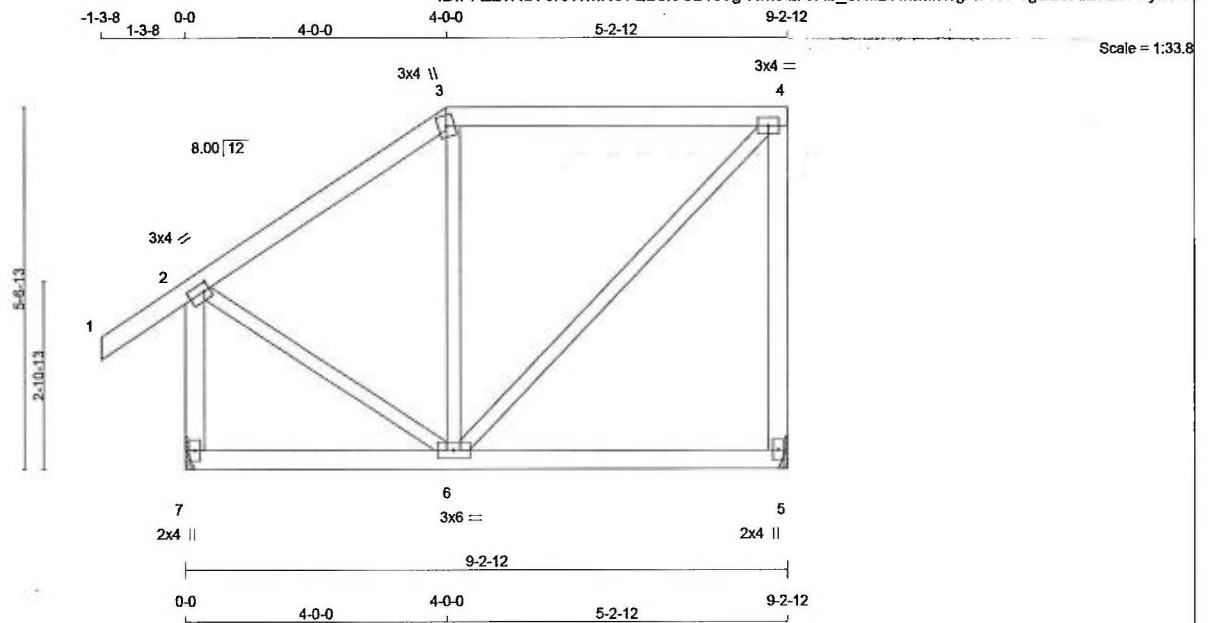
JST METAL= 0.18 (3) (INPUT = 1.00)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 29	-77.4	-77.4 0.10 (1)	10.00	8-3	-99 / 12	0.02 (1)
2-3	-366 / 0	-77.4	-77.4 0.05 (1)	6.25	3-7	0 / 207	0.05 (1)
3-4	-473 / 0	-77.4	-77.4 0.17 (1)	6.25	7-4	-353 / 0	0.06 (1)
4-5	-473 / 0	-77.4	-77.4 0.17 (1)	6.25	7-5	0 / 565	0.13 (1)
6-5	-421 / 0	0.0	0.0 0.06 (1)	7.81	2-8	0 / 341	0.08 (1)
9-2	-544 / 0	0.0	0.0 0.06 (1)	7.81			
9-8	0 / 0	-17.5	-17.5 0.03 (4)	10.00			
8-7	0 / 299	-17.5	-17.5 0.08 (4)	10.00			
7-6	0 / 0	-17.5	-17.5 0.06 (4)	10.00			



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK-MINNISALE HOMES-GRANDBROOKE 12 EL 2	DRWG NO.
NE0818-083	T25	1	1	TRUSS DESC.		PAGE 47 OF 56

Version 8.210 S Mar 12 2018 MITek Industries, Inc. Wed Aug 15 17:15:02 2018 Page 1
ID:FFZ2vRdY6r6WmN0vQBSoCz487g-NmsQrCXB_3KuDHkaahvrgAJT7P1gB2WuLeEoP7ynYed



TOTAL WEIGHT = 46 lb

LUMBER

N. L. G. A. RULES

CHORDS	SIZE	DRY	No.2	DESCR.
1 - 3	2x4	DRY	No.2	SPF
3 - 4	2x4	DRY	No.2	SPF
5 - 4	2x4	DRY	No.2	SPF
7 - 2	2x4	DRY	No.2	SPF
7 - 5	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
2	TMVW-t	MT20	3.0	4.0	1.50	1.00
3	TTW+m	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	6.0		
7	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
5	438	0	438	0
7	544	0	544	0

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5, 7 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
5	307	215 / 0	0 / 0
7	379	279 / 0	0 / 0

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.	CHORDS	MAX. FACTORED	FACTORED	VERT. LOAD	LC1	MAX	MEMB.	WEBS	MAX. FACTORED	FORCE	MAX
		(LBS)	(PLF)			CSI (LC)			(LBS)		CSI (LC)
FR-TO											
1-2		0 / 29	-77.4	-77.4	0.10 (1)	10.00	6-3		-225 / 5	0.11 (1)	
2-3		-239 / 0	-77.4	-77.4	0.21 (1)	6.25	6-4		0 / 278	0.06 (1)	
3-4		-194 / 0	-77.4	-77.4	0.36 (1)	6.25	2-6		0 / 234	0.05 (1)	
5-4		-401 / 0	0.0	0.0	0.22 (1)	7.81					
7-2		-519 / 0	0.0	0.0	0.08 (1)	7.81					
7-6		0 / 0	-17.5	-17.5	0.11 (4)	10.00					
6-5		0 / 0	-17.5	-17.5	0.11 (4)	10.00					

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD	=	33.3	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 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL)= L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.36/1.00 (3-4:1), BC=0.11/1.00 (6-7:4), WB=0.11/1.00 (3-6:1), SSI=0.16/1.00 (3-4:1)

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)	SHEAR	SECTION
(FSI)	(PLI)	(PLI)	(PLI)
MAX	MIN	MAX	MIN
MT20	618	354	1667

PLATE PLACEMENT TOL. = 0.250 inches

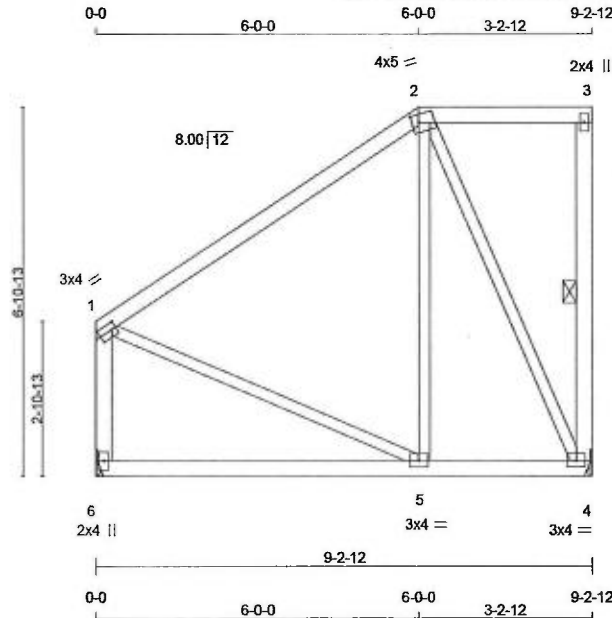
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (2) (INPUT = 0.90)
JSI METAL= 0.14 (2) (INPUT = 1.00)



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.

KOTT



Scale = 1:41.1

TOTAL WEIGHT = 48 lb

LUMBER				DESCR.	
N. L. G. A. RULES					
CHORDS	SIZE	LUMBER			
1 - 2	2x4	DRY	No.2	SPF	
2 - 3	2x4	DRY	No.2	SPF	
4 - 3	2x4	DRY	No.2	SPF	
6 - 1	2x4	DRY	No.2	SPF	
6 - 4	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
1	TMVW-1	MT20	3.0	4.0	1.50	1.00
2	TTWW-m	MT20	4.0	5.0	1.75	1.50
3	TMV+p	MT20	2.0	4.0		
4	BMVW1-1	MT20	3.0	4.0		
5	BMVW-1	MT20	3.0	4.0		
6	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	
4		438	0	438	0	0	MECHANICAL		
6		438	0	438	0	0	MECHANICAL		

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4, 6 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE	MAX/MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
4	307	215/0	0/0	0/0	0/0	92/0	0/0
6	307	215/0	0/0	0/0	0/0	92/0	0/0

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.

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF 3-4. DBS = 20-0-0. CBF = 16 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)	LC1 MAX	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	LC1 MAX	
FR-TO		FROM	TO	FR-TO					
1-2	-178/0	-77.4	-77.4	0.36 (1)	6.25	5-2	0/101	0.04 (4)	
2-3	0/0	-77.4	-77.4	0.14 (1)	10.00	2-4	-338/0	0.34 (1)	
4-3	-125/0	0.0	0.0	0.03 (1)	6.25	1-5	0/161	0.04 (1)	
6-1	-394/0	0.0	0.0	0.06 (1)	7.81				
6-5	0/0	-17.5	-17.5	0.14 (4)	10.00				
5-4	0/149	-17.5	-17.5	0.15 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL = 23.3	PSF
	DL = 3.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.0	PSF
TOTAL LOAD	= 33.3	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 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = L/360 (0.31")
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")
ALLOWABLE DEFL.(TL) = L/360 (0.31")
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.36/1.00 (1-2:1), BC=0.15/1.00 (4-5:4), WB=0.34/1.00 (2-4:1), SSI=0.15/1.00 (1-2:1)

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)	SHEAR	SECTION
(PSI)	(PLI)	(PLI)	(PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

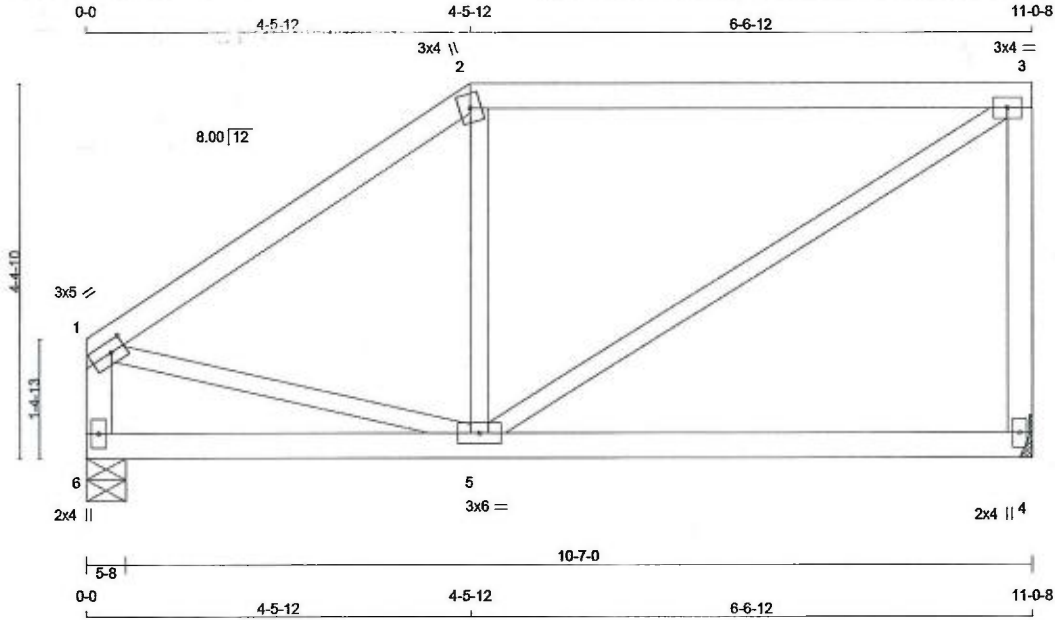
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.65 (2) (INPUT = 0.90)
JSI METAL= 0.12 (1) (INPUT = 1.00)



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 = 44 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 2	2x4	DRY	No.2	SPF
2 - 3	2x4	DRY	No.2	SPF
4 - 3	2x4	DRY	No.2	SPF
6 - 1	2x4	DRY	No.2	SPF
6 - 4	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
1	TMVW-t	MT20	3.0	5.0	1.50 2.00
2	TTW+m	MT20	3.0	4.0	
3	TMVW-t	MT20	3.0	4.0	
4	BMV1+p	MT20	2.0	4.0	
5	BMVW-t	MT20	3.0	6.0	
6	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
4	524	0	524	0	0	MECHANICAL
6	524	0	524	0	0	5-8

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 4 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE		MAX/MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
4	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0
6	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6

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	FACTORED			MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED	MAX. CSI (LC)	
	FORCE (LBS)	VERT. LOAD (PLF)	LC1 (LC)	FORCE (LBS)					
FR-TO		FROM	TO			FR-TO			
1-2	-432 / 0	-77.4	-77.4	0.27 (1)	6.25	5-2	-188 / 33	0.05 (1)	
2-3	-354 / 0	-77.4	-77.4	0.59 (1)	6.25	5-3	0 / 419	0.09 (1)	
4-3	-477 / 0	0.0	0.0	0.14 (1)	7.81	1-5	0 / 368	0.08 (1)	
6-1	-498 / 0	0.0	0.0	0.05 (1)	7.81				
6-5	0 / 0	-17.5	-17.5	0.17 (4)	10.00				
5-4	0 / 0	-17.5	-17.5	0.17 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL	=	23.3	PSF
	DL	=	3.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.0	PSF
TOTAL LOAD = 33.3 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 2010

THIS DESIGN COMPLIES WITH:

- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 086-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(LL) = $L/999$ (0.01")
ALLOWABLE DEFL.(TL) = $L/360$ (0.37")
CALCULATED VERT. DEFL.(TL) = $L/999$ (0.05")

CSI: TC=0.59/1.00 (2-3:1), BC=0.17/1.00 (5-6:4), WB=0.09/1.00 (3-5:1), SSI=0.20/1.00 (2-3:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

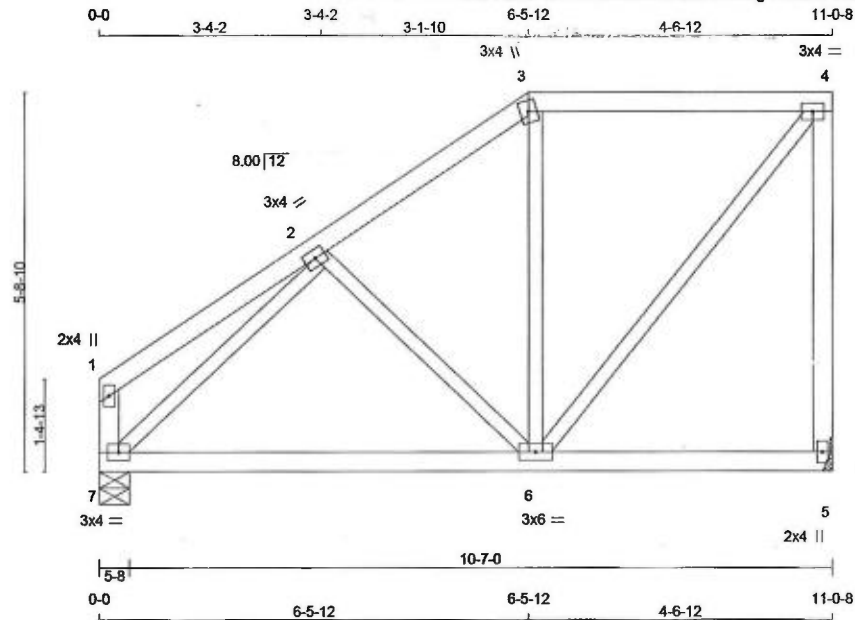
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.76 (5) (INPUT = 0.90)
JSI METAL= 0.16 (1) (INPUT = 1.00)



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 = 50 lb
[M][F]

LUMBER			
N. L. G. A. RULES	SIZE	DRY	LUMBER
1 - 3	2x4	DRY	No.2
3 - 4	2x4	DRY	No.2
5 - 4	2x4	DRY	No.2
7 - 1	2x4	DRY	No.2
7 - 5	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
1	TMV+p	MT20	2.0	4.0		
2	TMWV-t	MT20	3.0	4.0		
3	TTW+m	MT20	3.0	4.0		
4	TMVW-t	MT20	3.0	4.0		
5	BMV1+p	MT20	2.0	4.0		
6	BMVWV-t	MT20	3.0	6.0		
7	BMVW1-t	MT20	3.0	4.0		

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

DESCR.	FACTORED		MAXIMUM FACTORED		INPUT	REQRD
	GROSS REACTION	DOWN	GROSS REACTION	DOWN		
SPF	524	0	524	0	BRG	BRG
SPF	524	0	524	0	MECHANICAL	MECHANICAL

A SUITABLE MECHANICAL CONNECTION IS REQUIRED AT JOINT 5 TO RESIST THE MAX FACTORED REACTIONS.

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS						
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
5	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0	
7	368	257 / 0	0 / 0	0 / 0	0 / 0	110 / 0	0 / 0	

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 7

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. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0 / 16	-77.4 -77.4 0.13 (1)	10.00	2-6	-156 / 0	0.06 (1)	
2-3	-339 / 0	-77.4 -77.4 0.10 (1)	6.25	6-3	-94 / 30	0.05 (1)	
3-4	-266 / 0	-77.4 -77.4 0.21 (1)	6.25	6-4	0 / 420	0.09 (1)	
5-4	-500 / 0	0.0 0.0 0.30 (1)	7.81	7-2	-538 / 0	0.18 (1)	
7-1	-96 / 0	0.0 0.0 0.01 (1)	7.81				
7-6	0 / 380	-17.5 -17.5 0.19 (4)	10.00				
6-5	0 / 0	-17.5 -17.5 0.17 (4)	10.00				

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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, NBC 2010

THIS DESIGN COMPLIES WITH:
- PART 9 OF OBC 2012, BCBC 2012, ABC 2014
- CSA 088-09
- TPIC 2011

(55% OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.37")
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")
ALLOWABLE DEFL.(TL)= L/360 (0.37")
CALCULATED VERT. DEFL.(TL)= L/999 (0.05")

CSI: TC=0.30/1.00 (4-5:1), BC=0.19/1.00 (6-7:4), WB=0.18/1.00 (2-7:1), SSI=0.14/1.00 (3-4:1)

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)	SHEAR	SECTION		
	(PSI)	(PLI)	(PLI)		
	MAX	MIN	MAX	MIN	MAX
MT20	618	354	1667	822	2284

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

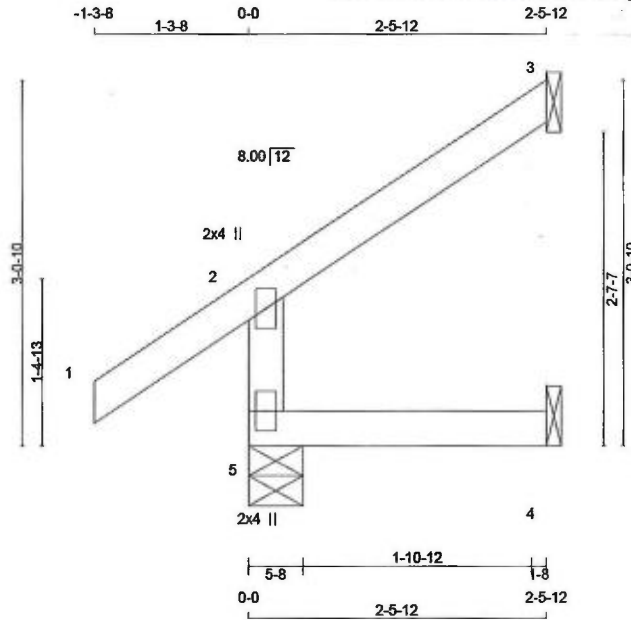
JSI GRIP= 0.83 (6) (INPUT = 0.90)
JSI METAL= 0.19 (2) (INPUT = 1.00)



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 8.210 S Mar 12 2018 MiTek Industries, Inc. Wed Aug 15 17:15:03 2018 Page 1
ID:FFZ2vRdY6r6WmN0vQBsl0Cz48?g-rzQo2YYdKMtIrJm80Q4COsxpODwVP1ZlLxZynYe



Scale = 1:18.4

TOTAL WEIGHT = 2 X 9 = 19 lb

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	DRY	LUMBER	DESCR.	SPF
5 - 2	2x4	DRY	No.2	SPF		
1 - 3	2x4	DRY	No.2	SPF		
5 - 4	2x4	DRY	No.2	SPF		

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
2	TMV+p	MT20	2.0	4.0		
5	BMV1+p	MT20	2.0	4.0		

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG		REQD BRG	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
5	250	0	250	0	0	5-8	5-8	
3	72	0	72	0	0	1-8	1-8	
4	19	0	22	0	0	1-8	1-8	

SEE MITTEK STANDARD DETAIL B37579H FOR CONNECTION TO JOINT(S) 3, 4

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. COMPONENT REACTIONS					
		SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
5	173	136 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0
3	49	43 / 0	0 / 0	0 / 0	0 / 0	6 / 0	0 / 0
4	15	0 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 5

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)

MEMB.	CHORDS				WEBS			
	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LOAD LC1 (LC)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MEMB.
FR-TO					FR-TO			
5-2	-226 / 0	0.0	0.0	0.01 (4)	7.81			
1-2	0 / 29	-77.4	-77.4	0.10 (1)	10.00			
2-3	-13 / 0	-77.4	-77.4	0.08 (1)	6.25			
5-4	0 / 0	-17.5	-17.5	0.03 (4)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD	=	33.3	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

DESIGN ASSUMPTIONS

- OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.10/1.00 (1-2:1), BC=0.03/1.00 (4-5:4), WB=0.00/1.00 (n/a:0), SSI=0.08/1.00 (2-3:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

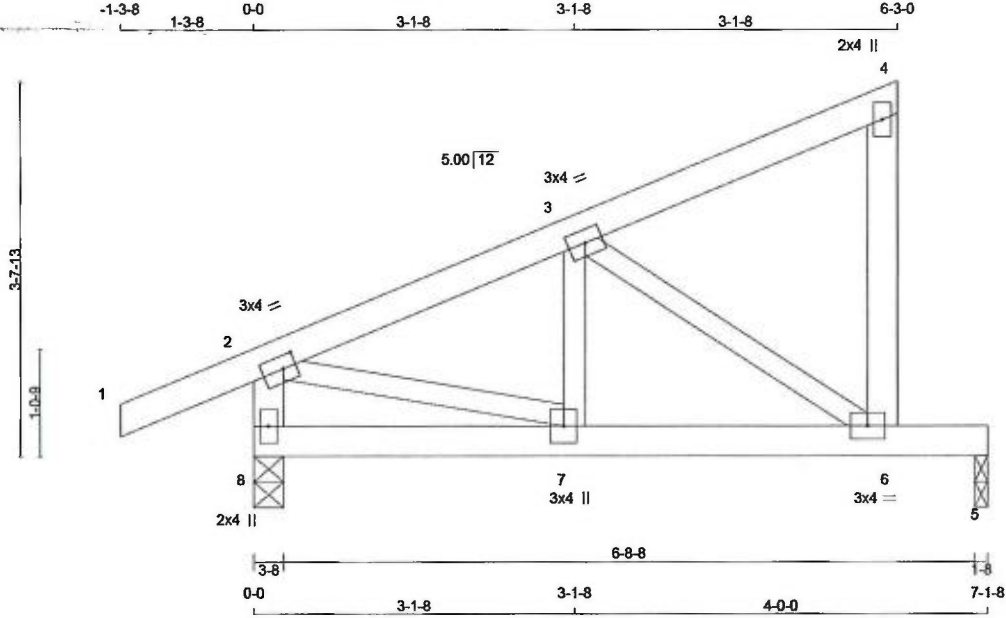
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (2) (INPUT = 0.90)
JSI METAL= 0.06 (2) (INPUT = 1.00)



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 = 5 X 28 = 140 lb [MIF]

LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER	DESCR.
1 - 4	2x4	DRY	No.2	SPF
6 - 4	2x4	DRY	No.2	SPF
8 - 2	2x4	DRY	No.2	SPF
8 - 5	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
2	TMVW-I	MT20	3.0	4.0	1.50	1.50
3	TMVW-I	MT20	3.0	4.0		
4	TMV+p	MT20	2.0	4.0		
6	BMVW-t	MT20	3.0	4.0		
7	BMVW-t	MT20	3.0	4.0		
8	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	
	VERT	HORZ	DOWN	HORZ	IN-SX	IN-SX	IN-SX	IN-SX
8	438	0	438	0	3-8	3-8	3-8	3-8
5	274	0	274	0	1-8	1-8	1-8	1-8

UNFACTORED REACTIONS

JT	1ST LCASE		MAX./MIN. COMPONENT REACTIONS		WIND	DEAD	SOIL
	COMBINED	SNOW	LIVE	PERM.LIVE			
8	305	226 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
5	194	128 / 0	0 / 0	0 / 0	0 / 0	66 / 0	0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 8, 5

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 CSI (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO		FROM TO			FR-TO		
1-2	0 / 20	-77.4 -77.4	0.10 (1)	10.00	7-3	0 / 87	0.03 (4)
2-3	-377 / 0	-77.4 -77.4	0.09 (1)	6.25	3-6	-428 / 0	0.10 (1)
3-4	-10 / 0	-77.4 -77.4	0.09 (1)	6.25	2-7	0 / 368	0.08 (1)
6-4	-94 / 0	0.0 0.0	0.02 (1)	7.81			
8-2	-432 / 0	0.0 0.0	0.04 (1)	7.81			
8-7	0 / 0	-17.5 -17.5	0.09 (1)	10.00			
7-6	0 / 358	-17.5 -17.5	0.38 (1)	10.00			
6-5	0 / 0	-17.5 -17.5	0.32 (1)	10.00			

DESIGN CRITERIA

SPECIFIED LOADS:
TOP CH. LL = 23.3 PSF
DL = 3.0 PSF
BOT CH. LL = 0.0 PSF
DL = 7.0 PSF
TOTAL LOAD = 33.3 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.24")
CALCULATED VERT. DEFL.(LL)= L/999 (0.04")
ALLOWABLE DEFL.(TL)= L/360 (0.24")
CALCULATED VERT. DEFL.(TL)= L/999 (0.07")

CSI: TC=0.10/1.00 (1-2:1), BC=0.38/1.00 (6-7:1), WB=0.10/1.00 (3-6:1), SSI=0.21/1.00 (5-6:1)

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

PLATE PLACEMENT TOL. = 0.250 inches

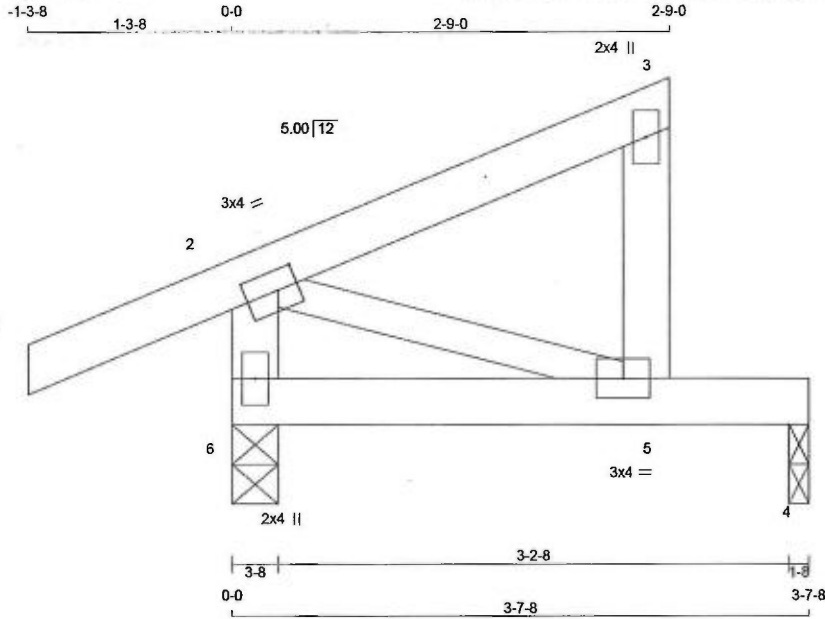
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.79 (7) (INPUT = 0.90)
JSI METAL= 0.17 (2) (INPUT = 1.00)



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 = 4 X 14 = 54 lb [M]

LUMBER				
N. L. G. A. RULES				
CHORDS	SIZE	LUMBER	DESCR.	
1 - 3	2x4	DRY	No.2	SPF
5 - 3	2x4	DRY	No.2	SPF
6 - 2	2x4	DRY	No.2	SPF
6 - 4	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
2	TMVW-t	MT20	3.0	4.0	1.50 1.50
3	TMV+p	MT20	2.0	4.0	
5	BMVW-t	MT20	3.0	4.0	
6	BMV1+p	MT20	2.0	4.0	

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

JT	FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
	VERT	HORZ	DOWN	HORZ		
6	268	0	268	0	3-8	3-8
4	112	0	112	0	1-8	1-8

UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
6	186	142/0	0/0	0/0	0/0	44/0	0/0
4	80	49/0	0/0	0/0	0/0	32/0	0/0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) 6, 4

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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. LC1 MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED MAX. CSI (LC)	
FR-TO		FROM TO		FR-TO			
1-2	0/20	-77.4 -77.4	0.10 (1)	10.00	2-5	0/0	0.00 (1)
2-3	0/0	-77.4 -77.4	0.10 (1)	10.00			
5-3	-106/0	0.0 0.0	0.01 (1)	7.81			
6-2	-211/0	0.0 0.0	0.02 (1)	7.81			
6-5	0/0	-17.5 -17.5	0.12 (1)	10.00			
5-4	0/0	-17.5 -17.5	0.12 (1)	10.00			

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

DESIGN CRITERIA

SPECIFIED LOADS:

TOP CH.	LL =	23.3	PSF
	DL =	3.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.0	PSF
TOTAL LOAD = 33.3 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 27.2 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 23.3 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=0.10/1.00 (2-3:1), BC=0.12/1.00 (5-6:1), WB=0.00/1.00 (2-5:1), SSI=0.09/1.00 (4-5:1)

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)	SHEAR (PLI)	SECTION (PLI)
MT20	618	354	1667
	822	2284	1656

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.21 (2) (INPUT = 0.90)
JSI METAL= 0.04 (6) (INPUT = 1.00)



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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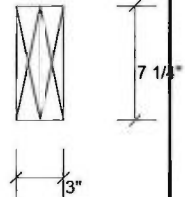
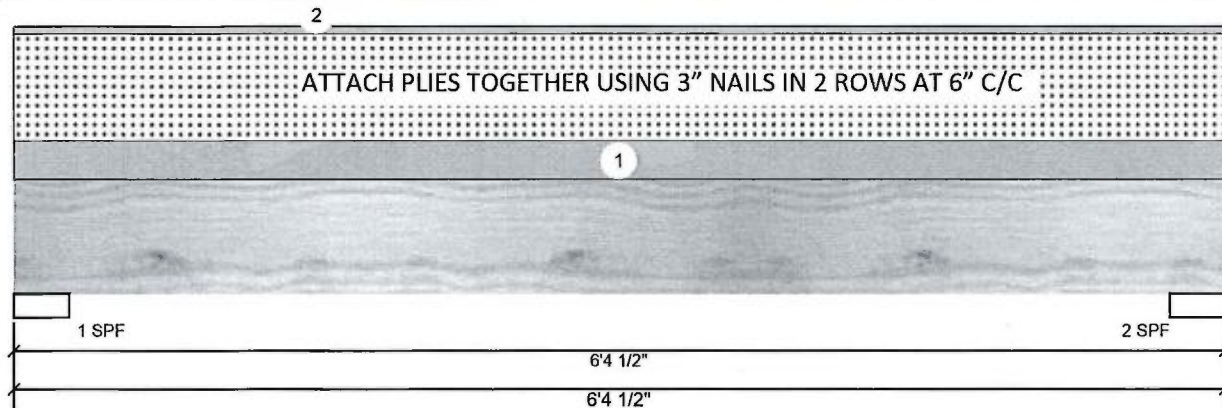
Client: NE0818-083
Project: GREENPARK-MINNISALE HOMES-
Address: GRANDBROOKE 12 EL 2

Date: 6/21/2018
Designer: B B
Job Name: B1
Project #:

Page 1 of 1
PAGE 54 OF 56

B1 S-P-F #2 2.000" X 8.000" 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:	480	Building Code:	NBCC 2010 / OBC 2012
Deflection TL:	240	Load Sharing:	No
Importance:	Normal	Deck:	Not Checked
		Vibration:	Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Live	Dead	Snow	Wind
1	0	198	456	0
2	0	198	456	0

Bearings and Factored Reactions

Bearing	Length	Cap. React	D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	14%	247 / 684	931	L	1.25D+1.5S
2 - SPF	3.500"	14%	247 / 684	931	L	1.25D+1.5S

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1278 ft-lb	3'2 1/4"	4047 ft-lb	0.316 (32%)	1.25D+1.5S	L
Unbraced	1278 ft-lb	3'2 1/4"	4020 ft-lb	0.318 (32%)	1.25D+1.5S	L
Shear	687 lb	5'6 1/2"	3406 lb	0.202 (20%)	1.25D+1.5S	L
LL Defl inch	0.030 (L/2363)	3'2 1/4"	0.148 (L/480)	0.200 (20%)	S	L
TL Defl inch	0.043 (L/1648)	3'2 1/4"	0.296 (L/240)	0.150 (15%)	D+S	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 loads must be supported equally by all plies.
- Top braced at bearings.
- Bottom braced at bearings.
- Lateral slenderness ratio based on full section width.



ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Uniform			Top	52 PLF	0 PLF	143 PLF	0 PLF	
2	Uniform			Top	10 PLF	0 PLF	0 PLF	0 PLF	

**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.**

Manufacturer Info



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

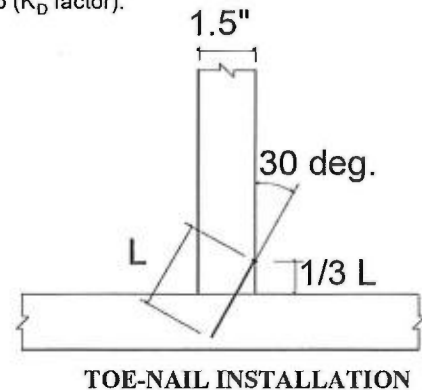
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

B37579H1

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

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 O86-09, section 10.9.4.1.
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 O86-09, section 10.9.4
10. This design is not valid after April 30, 2019.



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



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

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April 26, 2017

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B37579H2

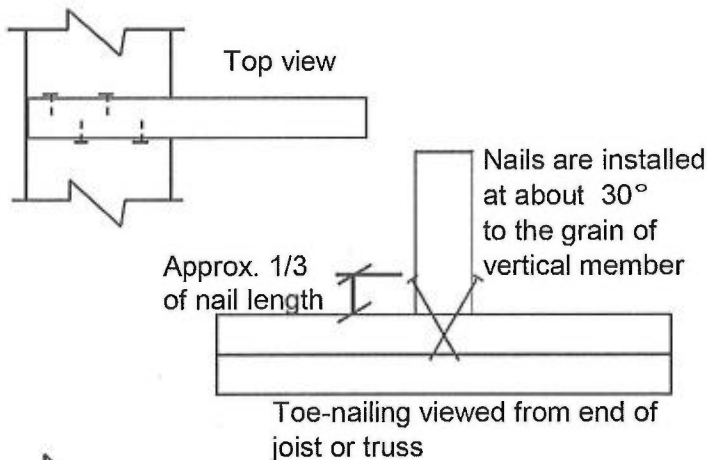
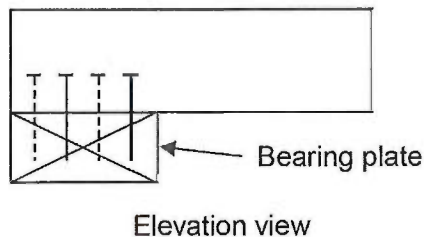
NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL WITHDRAWAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON	3.00	0.144	30	42
	3.25	0.144	32	45
	3.50	0.160	38	52

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

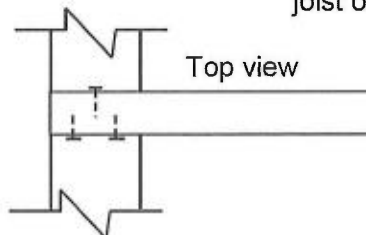
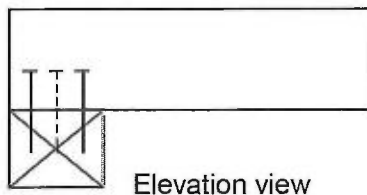
NOTES:

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 O86-09, section 10.9.5.2.
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 O86-09, section 10.9.5
9. This design is not valid after April 30, 2019

Toe-nailing on 2x6 Bearing Plate



Toe-nailing on 2x4 Bearing Plate



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

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April 26, 2017