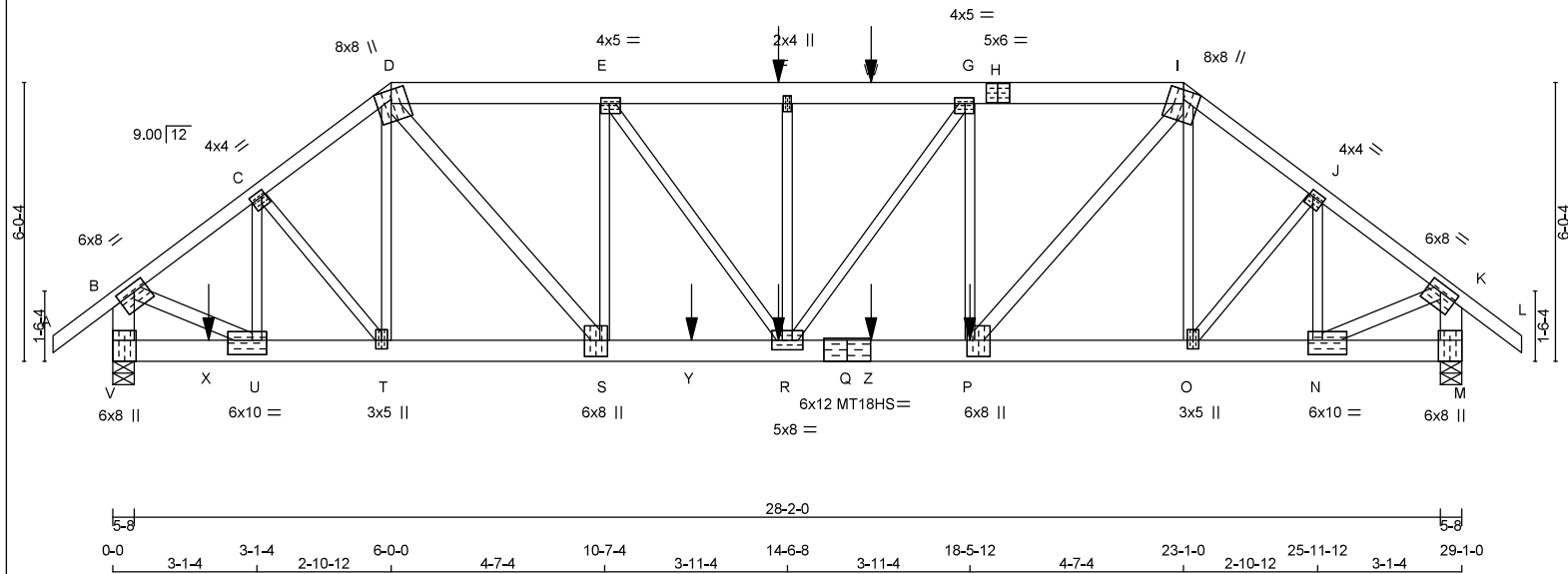
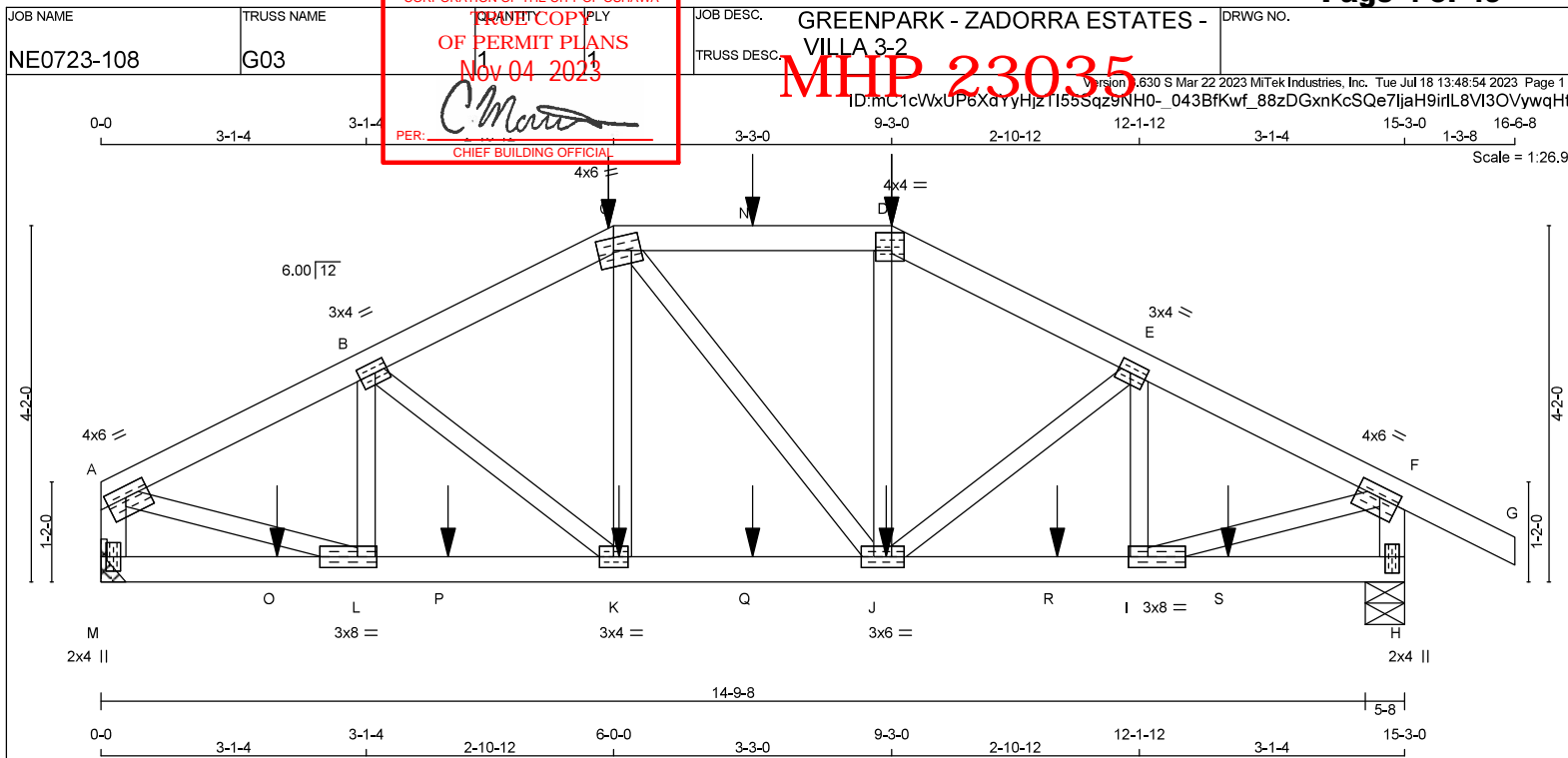




JOB NAME NE0723-108	TRUSS NAME G02	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO. MHP 23035
PERSON: J.630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:48:53 2023 Page 1 ID:mc1cWxUP6XdYyHjzTl55Sqz9NHU-WqVwG_JJug0HL3ilDd5DtQaYKAsPzi9Cvr?Vs2ywqHu				
Scale = 1:49.6				





TOTAL WEIGHT = 631b [M]

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
M - A	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - H	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
A	TMVW4	MT20	4.0	6.0	1.50	2.75
B	TMVW4	MT20	3.0	4.0	1.50	1.75
C	TMVW4-m	MT20	4.0	6.0	1.75	2.25
D	TTW4	MT20	4.0	4.0	2.50	2.25
E	TMVW4	MT20	3.0	4.0	1.50	1.75
F	TMVW4	MT20	4.0	6.0	1.50	2.75
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMVW4	MT20	3.0	8.0	1.50	2.75
J	BMVW4	MT20	3.0	6.0		
K	BMVW4	MT20	3.0	4.0		
L	BMVW4	MT20	3.0	8.0	1.50	2.75
M	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
M	1830	0	1830	0
H	1992	0	1992	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT M. MINIMUM BEARING LENGTH AT JOINT M = 2-7.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
M	1278	926 / 0 0 / 0 0 / 0 0 / 0 352 / 0 0 / 0
H	1389	1021 / 0 0 / 0 0 / 0 0 / 0 368 / 0 0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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 FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO				FR-TO		
A-B	-2345 / 0	-119.4	-119.4 0.23 (1)	4.19	L-B	-497 / 0 0.09 (1)
B-C	-2434 / 0	-119.4	-119.4 0.24 (1)	4.12	B-K	-15 / 64 0.02 (1)
C-N	-2163 / 0	-119.4	-119.4 0.50 (1)	3.92	C-K	0 / 124 0.05 (4)
N-D	-2163 / 0	-119.4	-119.4 0.50 (1)	3.92	C-J	0 / 0 0.00 (1)
D-E	-2435 / 0	-119.4	-119.4 0.24 (1)	4.12	J-D	0 / 125 0.05 (4)
E-F	-2345 / 0	-119.4	-119.4 0.23 (1)	4.19	J-E	-14 / 65 0.02 (1)
F-G	0 / 36	-119.4	-119.4 0.17 (1)	10.00	I-E	-498 / 0 0.09 (1)
M-A	-1792 / 0	0.0	0.0 0.20 (1)	6.12	A-L	0 / 2190 0.54 (1)
H-F	-1953 / 0	0.0	0.0 0.22 (1)	5.90	I-F	0 / 2190 0.54 (1)

M-O	0 / 0	-18.2	-18.2 0.06 (4)	10.00
O-L	0 / 0	-18.2	-18.2 0.06 (4)	10.00
L-P	0 / 2111	-18.2	-18.2 0.42 (1)	10.00
P-K	0 / 2111	-18.2	-18.2 0.42 (1)	10.00
K-Q	0 / 2163	-18.2	-18.2 0.42 (1)	10.00
Q-J	0 / 2163	-18.2	-18.2 0.42 (1)	10.00
J-R	0 / 2111	-18.2	-18.2 0.42 (1)	10.00
R-I	0 / 2111	-18.2	-18.2 0.42 (1)	10.00
I-S	0 / 0	-18.2	-18.2 0.06 (4)	10.00
S-H	0 / 0	-18.2	-18.2 0.06 (4)	10.00

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
C	6-0-0	-418	-418	—	FRONT	VERT	TOTAL	—	C1
D	9-3-0	-418	-418	—	FRONT	VERT	TOTAL	—	C1
J	9-2-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
K	6-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
N	7-7-8	-102	-102	—	FRONT	VERT	TOTAL	—	C1
O	2-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
P	4-0-12	-22	-22	—	FRONT	VERT	TOTAL	—	C1
Q	7-7-8	-22	-22	—	FRONT	VERT	TOTAL	—	C1
R	11-2-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1
S	13-2-4	-22	-22	—	FRONT	VERT	TOTAL	—	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	48.1	PSF

SPACING = 24.0 IN. C/C

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

\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.51")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")  
ALLOWABLE DEFL.(TL) = L/360 (0.51")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.50/0.97 (C-D-1), BC=0.42/0.97 (J-K-1), WB=0.54/0.97 (A-L-1), SSI=0.23/1.00 (C-D-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

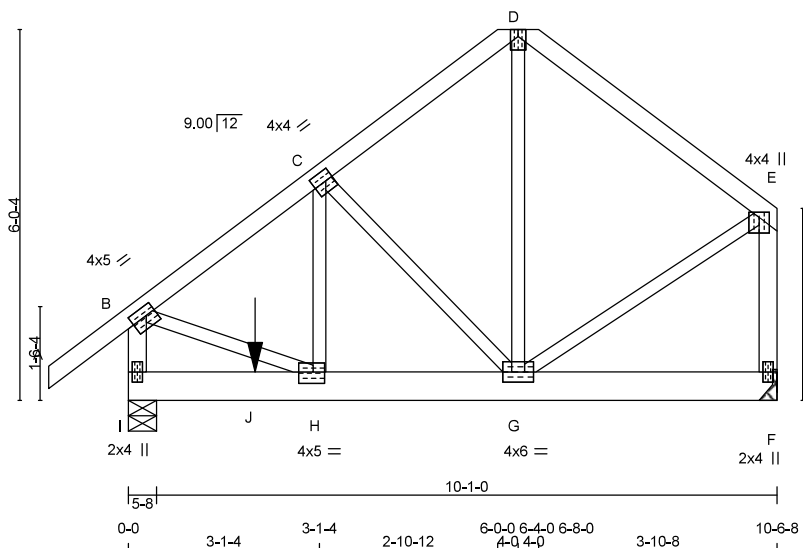
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (M) (INPUT = 0.90)  
JSI METAL = 0.59 (F) (INPUT = 1.00)

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



JOB NAME NE0723-108	TRUSS NAME G04	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO.
ID: mC1cWxUP6XdYyHjzTl55Sqz9NHU- 043BfKwf_88zDGxKcSQe7m0aFkiu1L8VI3OVywwHt 3-1-4 2-10-12 6-0-0 6-4-0 6-8-0 3-10-8 10-6-8 4-0 4-0 3x4			PERSON .630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:48:54 2023 Page 1 Scale = 1:37.4	



TOTAL WEIGHT = 56 lb

LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - F	2x6	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
B	TMVW4	MT20	4.0	5.0	1.75	2.00
C	TMVW4	MT20	4.0	4.0	2.00	1.50
D	TMVW4+p	MT20	3.0	4.0	Edge	
E	TMVW4+p	MT20	4.0	4.0	1.00	2.00
F	BMV1+p	MT20	2.0	4.0		
G	BMVW4	MT20	4.0	6.0		
H	BMVW4	MT20	4.0	5.0	2.25	2.25
I	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**

	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT	REQD
JT	VERT	HORZ	DOWN	HORZ
I	1881	0	1881	0
F	967	0	967	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS					
	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
I	1308	983 / 0	0 / 0	0 / 0	0 / 0	326 / 0	0 / 0
F	675	493 / 0	0 / 0	0 / 0	0 / 0	181 / 0	0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.26 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 49	-119.4	-119.4 0.18 (1)	H-C	0 / 659	0.16 (1)	
B-C	-1348 / 0	-119.4	-119.4 0.23 (1)	C-G	-902 / 0	0.33 (1)	
C-D	-625 / 0	-119.4	-119.4 0.21 (1)	B-H	0 / 1166	0.29 (1)	
D-E	-601 / 0	-119.4	-119.4 0.41 (1)	G-E	0 / 571	0.14 (1)	
I-B	-1524 / 0	0.0	0.0 0.17 (1)	G-D	0 / 318	0.08 (1)	
F-E	-921 / 0	0.0	0.0 0.15 (1)				
I-J	0 / 0	-18.2	-18.2 0.51 (1)				
J-H	0 / 0	-18.2	-18.2 0.51 (1)				
H-G	0 / 1098	-18.2	-18.2 0.34 (1)				
G-F	0 / 0	-18.2	-18.2 0.04 (1)				

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
J	2-0-12	-856	-856	—	FRONT	VERT	TOTAL	—	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.35")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
 ALLOWABLE DEFL.(TL)= L/360 (0.35")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.41/0.97 (D-E-1), BC=0.51/0.97 (H-I-1),  
 WB=0.33/0.97 (C-G-1), SS=0.62/1.00 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE LEFT HEEL ONLY

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	650	371	1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (H) (INPUT = 0.90)  
 JSI METAL= 0.42 (B) (INPUT = 1.00)

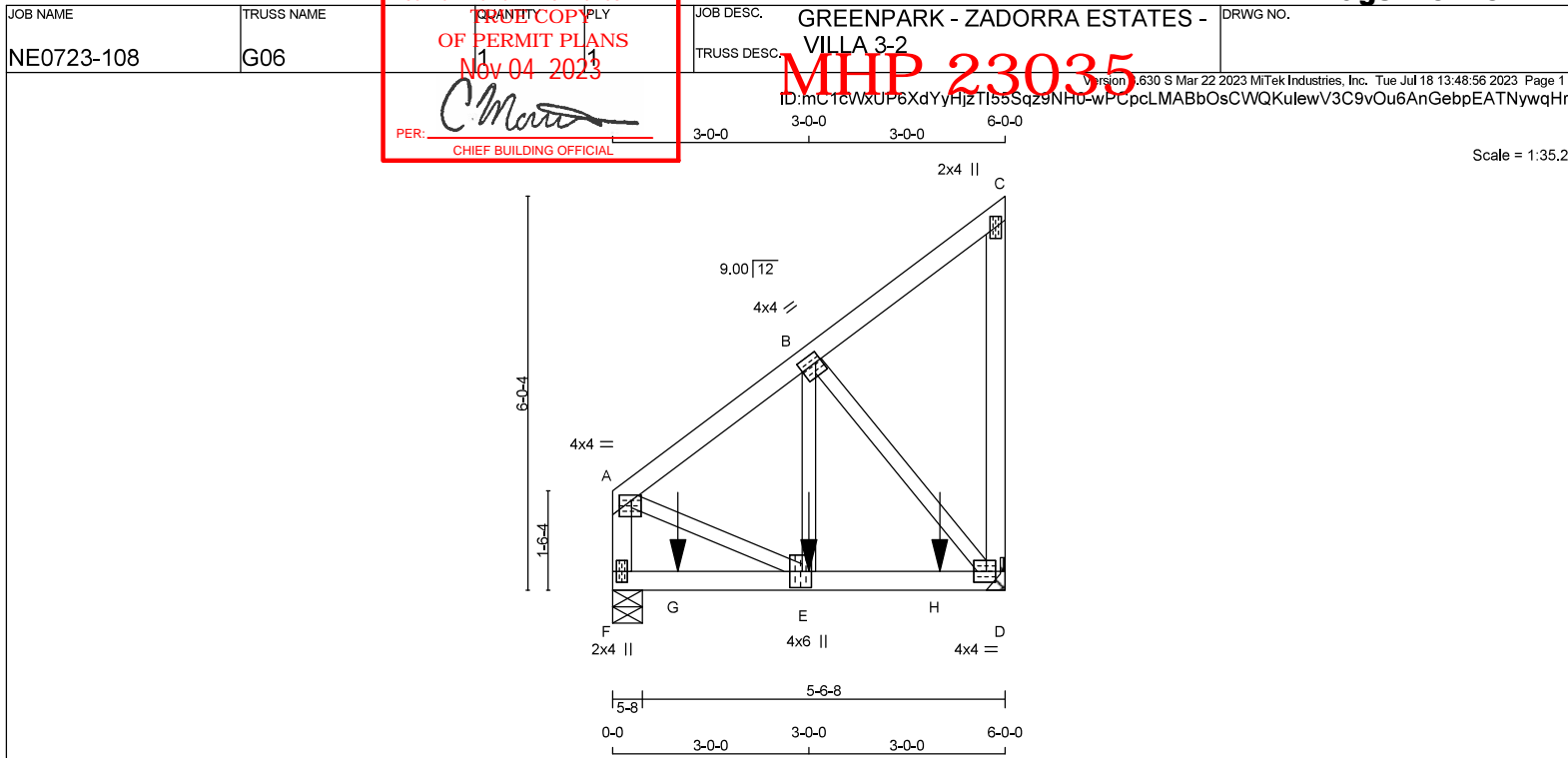


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.









TOTAL WEIGHT = 31 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW-p	MT20	4.0	4.0	1.00	2.25
B	TMVW-H	MT20	4.0	4.0	1.75	1.00
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	4.0	4.0	2.00	1.75
E	BMVW14	MT20	4.0	6.0	3.00	1.75
F	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	1448	0	1448	0	0	5-8	1-9
F	1448	0	1448	0	0	5-8	1-9

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-9.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
D	1009	746 / 0 0 / 0 0 / 0 0 / 0 263 / 0 0 / 0
F	1009	746 / 0 0 / 0 0 / 0 0 / 0 263 / 0 0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.99 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 (PLF)	MAX. LC1 (LC)	MAX. UNBRAC LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
FR-TO					FR-TO		
A-B	-977 / 0	-119.4	-119.4	0.20 (1)	E-B	0 / 1081	0.27 (1)
B-C	-24 / 0	-119.4	-119.4	0.18 (1)	B-D	-1219 / 0	0.41 (1)
D-C	-139 / 0	0.0	0.0	0.09 (1)	A-E	0 / 862	0.21 (1)
F-A	-1058 / 0	0.0	0.0	0.12 (1)			
F-G	0 / 0	-18.2	-18.2	0.57 (1)			
G-E	0 / 0	-18.2	-18.2	0.57 (1)			
E-H	0 / 801	-18.2	-18.2	0.71 (1)			
H-D	0 / 801	-18.2	-18.2	0.71 (1)			

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
E	3-0-0	-481	-481		FRONT	VERT	TOTAL		C1
G	1-0-0	-481	-481		FRONT	VERT	TOTAL		C1
H	5-0-0	-481	-481		FRONT	VERT	TOTAL		C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL = 34.8	PSF
	DL = 6.0	PSF
BOT CH.	LL = 0.0	PSF
	DL = 7.3	PSF
TOTAL LOAD	= 48.1	PSF

**SPACING = 24.0 IN. C/C****\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
 ALLOWABLE DEFL.(TL)= L/360 (0.20")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.20/0.97 (A-B:1), BC=0.71/0.97 (D-E:1),  
 WB=0.41/0.97 (B-D:1), SS=0.33/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

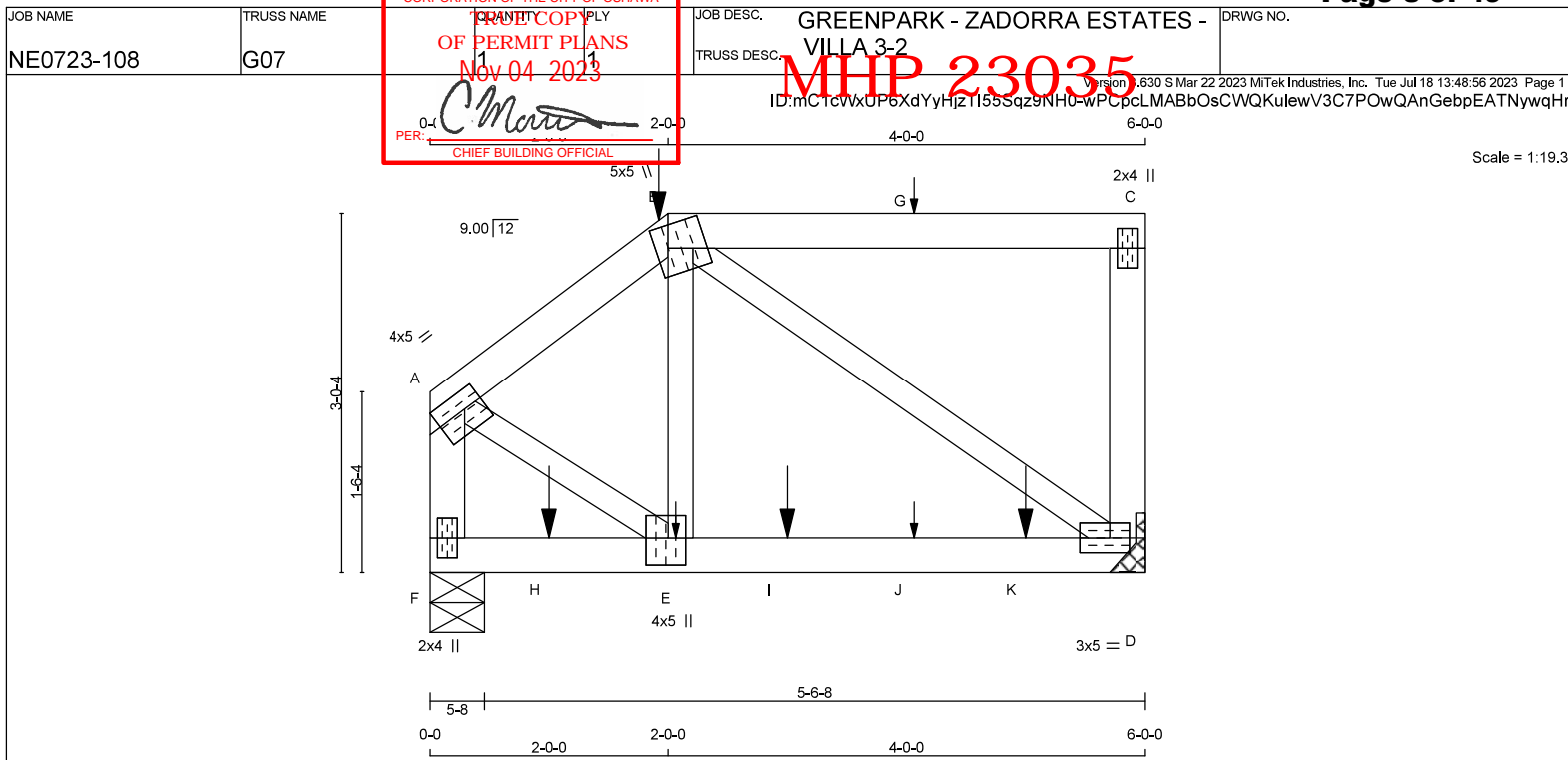
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)  
 JSI METAL= 0.36 (E) (INPUT = 1.00)



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





TOTAL WEIGHT = 26 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - A	2x4	DRY	No.2
F - D	2x4	DRY	2100F 1.8E

ALL WEBS 2x3 DRY No.2  
 EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMVW4	MT20	4.0	5.0	1.75	1.25
B	TTWW+m	MT20	5.0	5.0	2.25	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	3.0	5.0	1.50	2.00
E	BMVW+t	MT20	4.0	5.0	2.75	1.75
F	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**

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
D	1449	0	1449	0	0
F	1451	0	1451	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
D	1010	746 / 0 0 / 0 0 / 0 264 / 0 0 / 0
F	1011	746 / 0 0 / 0 0 / 0 265 / 0 0 / 0

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) F  
 BEARING SIZE FACTOR = 1.15 AT JNT(S) F (BASED ON SUPPORT DEPTH = 1-8)

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.76 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				FR-TO			
A-B	-1149 / 0	-119.4	0.11 (1)	5.76	E-B	0 / 980	0.24 (1)
B-G	0 / 0	-119.4	0.36 (1)	10.00	B-D	-1151 / 0	0.41 (1)
G-C	0 / 0	-119.4	0.36 (1)	10.00	A-E	0 / 1052	0.26 (1)
D-C	-239 / 0	0.0	0.04 (1)	7.81			
F-A	-1333 / 0	0.0	0.01 (1)	6.90			
F-H	0 / 0	-18.2	-18.2 0.55 (1)	10.00			
H-E	0 / 0	-18.2	-18.2 0.55 (1)	10.00			
E-I	0 / 953	-18.2	-18.2 0.63 (1)	10.00			
I-J	0 / 953	-18.2	-18.2 0.63 (1)	10.00			
J-K	0 / 953	-18.2	-18.2 0.63 (1)	10.00			
K-D	0 / 953	-18.2	-18.2 0.63 (1)	10.00			

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-0-0	-3	-3	-	FRONT	VERT	TOTAL	-	C1
E	2-0-12	1	1	-	FRONT	VERT	TOTAL	-	C1
G	4-0-12	1	1	-	FRONT	VERT	TOTAL	-	C1
H	1-0-0	-481	-481	-	BACK	VERT	TOTAL	-	C1
I	3-0-0	-481	-481	-	BACK	VERT	TOTAL	-	C1
J	4-0-12	1	1	-	FRONT	VERT	TOTAL	-	C1
K	5-0-0	-481	-481	-	BACK	VERT	TOTAL	-	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

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

\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.07")  
 ALLOWABLE DEFL.(TL) = L/360 (0.20")  
 CALCULATED VERT. DEFL.(TL) = L/628 (0.11")

CSI: TC=0.36/0.97 (B-C-1), BC=0.63/0.97 (D-E-1),  
 WB=0.41/0.97 (B-D-1), SSI=0.76/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

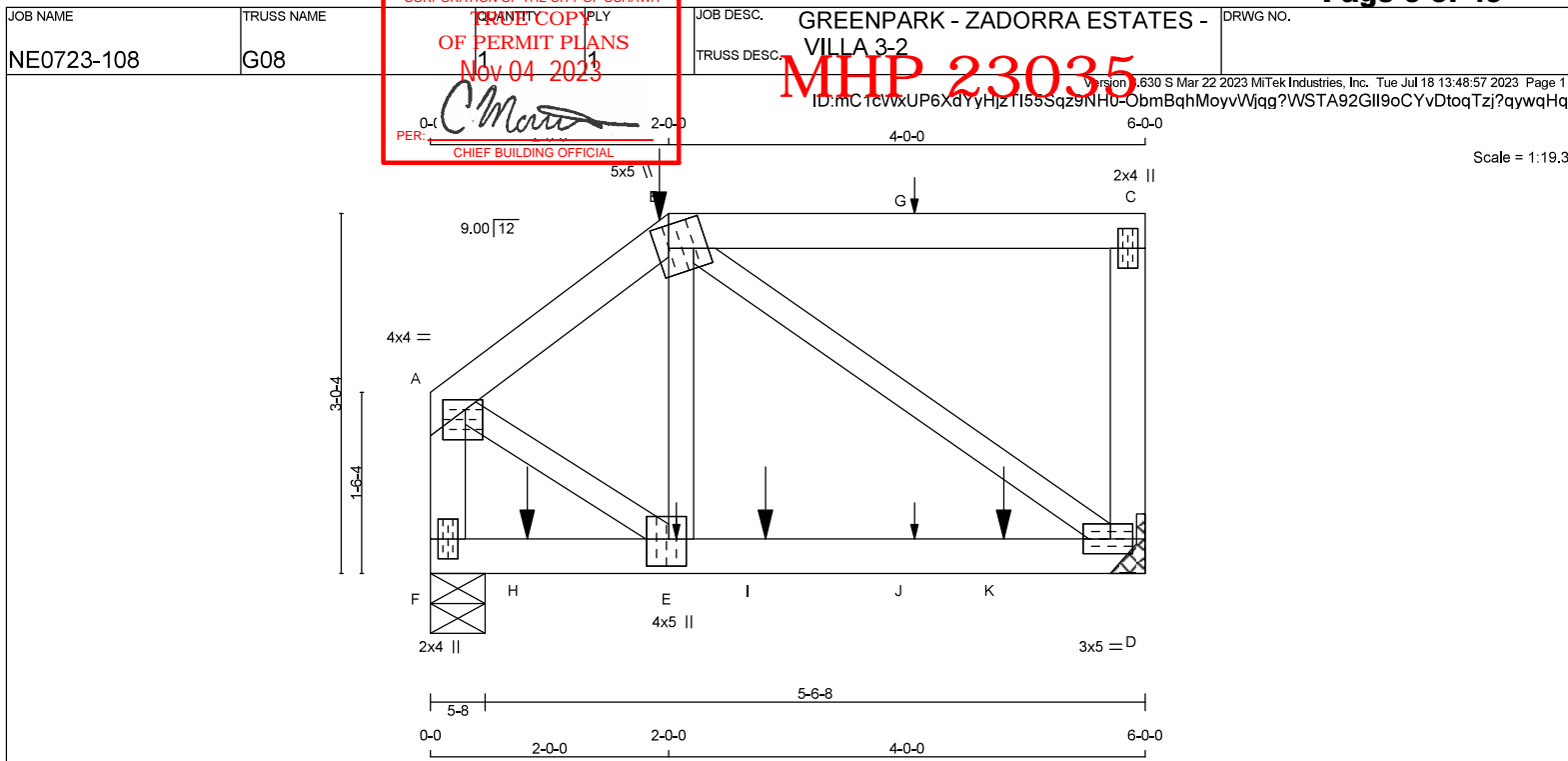
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (E) (INPUT = 0.90)  
 JSI METAL = 0.43 (E) (INPUT = 1.00)



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





TOTAL WEIGHT = 26 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - A	2x4	DRY	No.2
F - D	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
A	TMVW-p	MT20	4.0	4.0	1.00	2.25
B	TTWW+m	MT20	5.0	5.0	2.25	1.25
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	3.0	5.0	1.50	2.25
E	BMVW14	MT20	4.0	5.0	2.75	1.75
F	BMV1+p	MT20	2.0	4.0		

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

DESCR.	SPF	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT
D	1250	0	1250	0	0
F	1607	0	1607	0	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
D	COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
D	871	646 / 0 0 / 0 0 / 0 225 / 0 0 / 0
F	1118	837 / 0 0 / 0 0 / 0 281 / 0 0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.88 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 FORCE (LBS)	FACTORED VERT. LOAD (PL)	MAX. VERT. LOAD (LC1)	MAX. UNBRACED LENGTH FR-TO	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. VERT. LOAD (LC1)
FR-TO									
A-B	-1084 / 0	-119.4	-119.4	0.11 (1)	5.88	E-B	0 / 903	0.22 (1)	
B-G	0 / 0	-119.4	-119.4	0.36 (1)	10.00	B-D	-1085 / 0	0.39 (1)	
G-C	0 / 0	-119.4	-119.4	0.36 (1)	10.00	A-E	0 / 993	0.25 (1)	
D-C	-239 / 0	0.0	0.0	0.04 (1)	7.81				
F-A	-1265 / 0	0.0	0.0	0.14 (1)	7.03				
F-H	0 / 0	-18.2	-18.2	0.73 (1)	10.00				
H-E	0 / 0	-18.2	-18.2	0.73 (1)	10.00				
E-I	0 / 898	-18.2	-18.2	0.89 (1)	10.00				
I-J	0 / 898	-18.2	-18.2	0.89 (1)	10.00				
J-K	0 / 898	-18.2	-18.2	0.89 (1)	10.00				
K-D	0 / 898	-18.2	-18.2	0.89 (1)	10.00				

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	2-0-12	-3	-3	---	BACK	VERT	TOTAL	---	C1
E	2-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
G	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
H	9-12	-628	-628	---	FRONT	VERT	TOTAL	---	C1
I	2-9-12	-390	-390	---	FRONT	VERT	TOTAL	---	C1
J	4-0-12	1	1	---	BACK	VERT	TOTAL	---	C1
K	4-9-12	-390	-390	---	FRONT	VERT	TOTAL	---	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	48.1	PSF

SPACING = 24.0 IN. C/C

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

\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")

CALCULATED VERT. DEFL.(LL) = L/999 (0.06")

ALLOWABLE DEFL.(TL) = L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = L/636 (0.11")

CSI: TC=0.36/0.97 (B-C-1), BC=0.89/0.97 (D-E-1), WB=0.39/0.97 (B-D-1), SS=0.68/1.00 (D-E-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

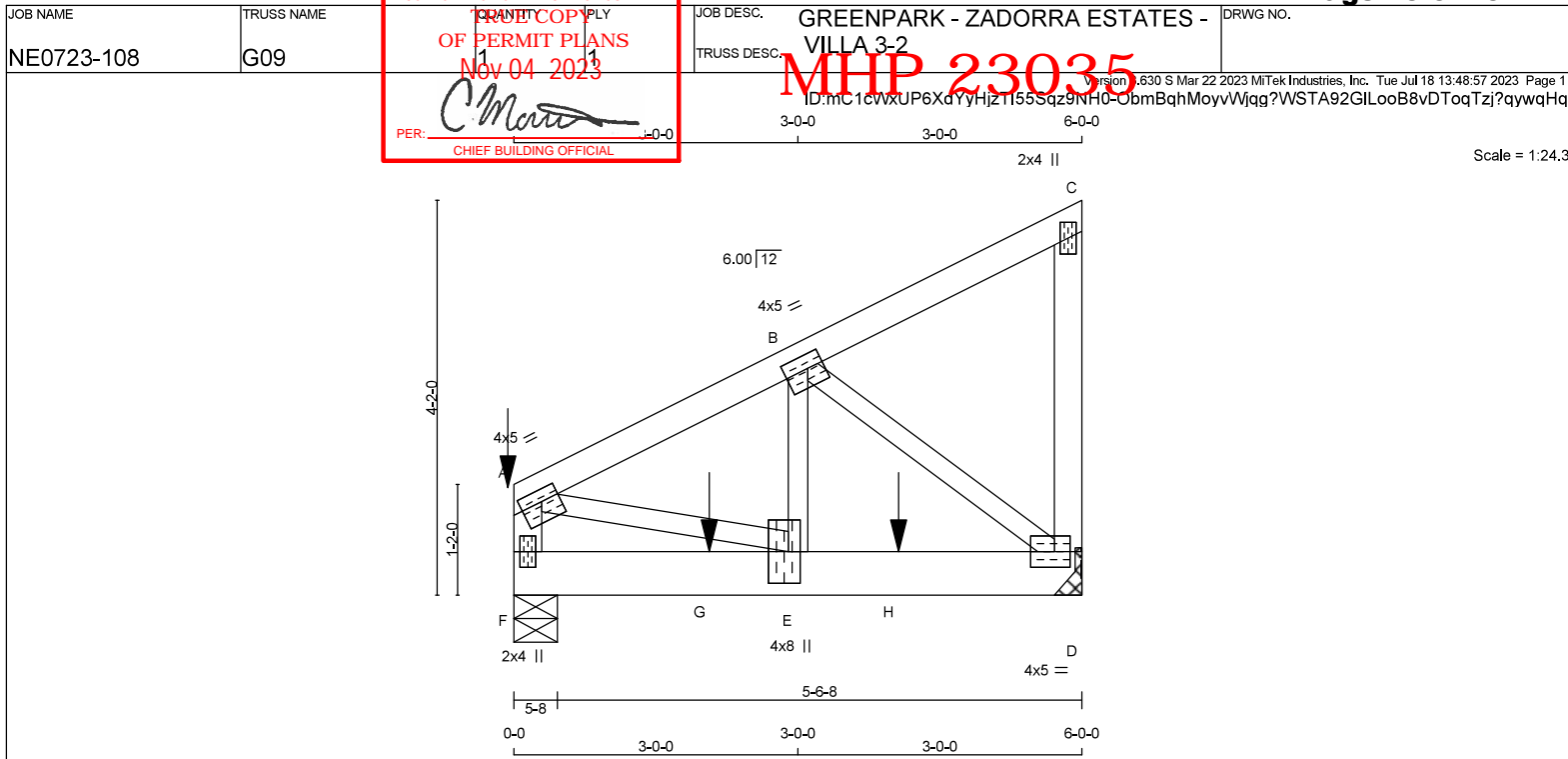
JSI GRIP= 0.89 (D) (INPUT = 0.90)  
 JSI METAL = 0.40 (E) (INPUT = 1.00)



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







TOTAL WEIGHT = 29 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - A	2x4	DRY	No.2
F - D	2x6	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
A	TMVW4	MT20	4.0	5.0	1.50	2.25
B	TMVW4	MT20	4.0	5.0	1.75	2.00
C	TMV+p	MT20	2.0	4.0		
D	BMVW14	MT20	4.0	5.0	2.00	2.00
E	BMVW14	MT20	4.0	8.0	4.00	1.50
F	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	1711	0	1711	0	0	MECHANICAL	
F	1213	0	1213	0	0	5-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-14.

**UNFACTORED REACTIONS**

1ST LCASE		MAX. MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
D	1193	878 / 0	0 / 0	0 / 0	0 / 0	316 / 0	0 / 0
F	846	622 / 0	0 / 0	0 / 0	0 / 0	224 / 0	0 / 0

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.09 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.

**LOADING**

TOTAL LOAD CASES: (4)

CHORDS					WEBS				
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	
FR-TO		FROM	TO		FR-TO				
A-B	-1503 / 0	-119.4	-119.4	0.19 (1)	5.09	E-B	0 / 1281	0.32 (1)	
B-C	-15 / 0	-119.4	-119.4	0.15 (1)	6.25	B-D	-1704 / 0	0.42 (1)	
D-C	-145 / 0	0.0	0.0	0.04 (1)	7.81	A-E	0 / 1402	0.35 (1)	
F-A	-1253 / 0	0.0	0.0	0.14 (1)	7.06				
F-G	0 / 0	-18.2	-18.2	0.29 (1)	10.00				
G-E	0 / 0	-18.2	-18.2	0.29 (1)	10.00				
E-H	0 / 1358	-18.2	-18.2	0.92 (1)	10.00				
H-D	0 / 1358	-18.2	-18.2	0.92 (1)	10.00				

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
A	0-0	-56	-56		TOP	VERT	TOTAL		C1
G	2-0-12	-142	-142		FRONT	VERT	TOTAL		C1
H	4-0-12	-1264	-1264		FRONT	VERT	TOTAL		C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

\*\*\* 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 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
 ALLOWABLE DEFL.(TL)= L/360 (0.20")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

CSI: TC=0.19/0.97 (A-B:1) , BC=0.92/0.97 (D-E:1) , WB=0.42/0.97 (B-D:1) , SSI=0.88/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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	650	371	1747
	788	1987	1873

PLATE PLACEMENT TOL. = 0,250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90)  
JSI METAL= 0.61 (E) (INPUT = 1.00)

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

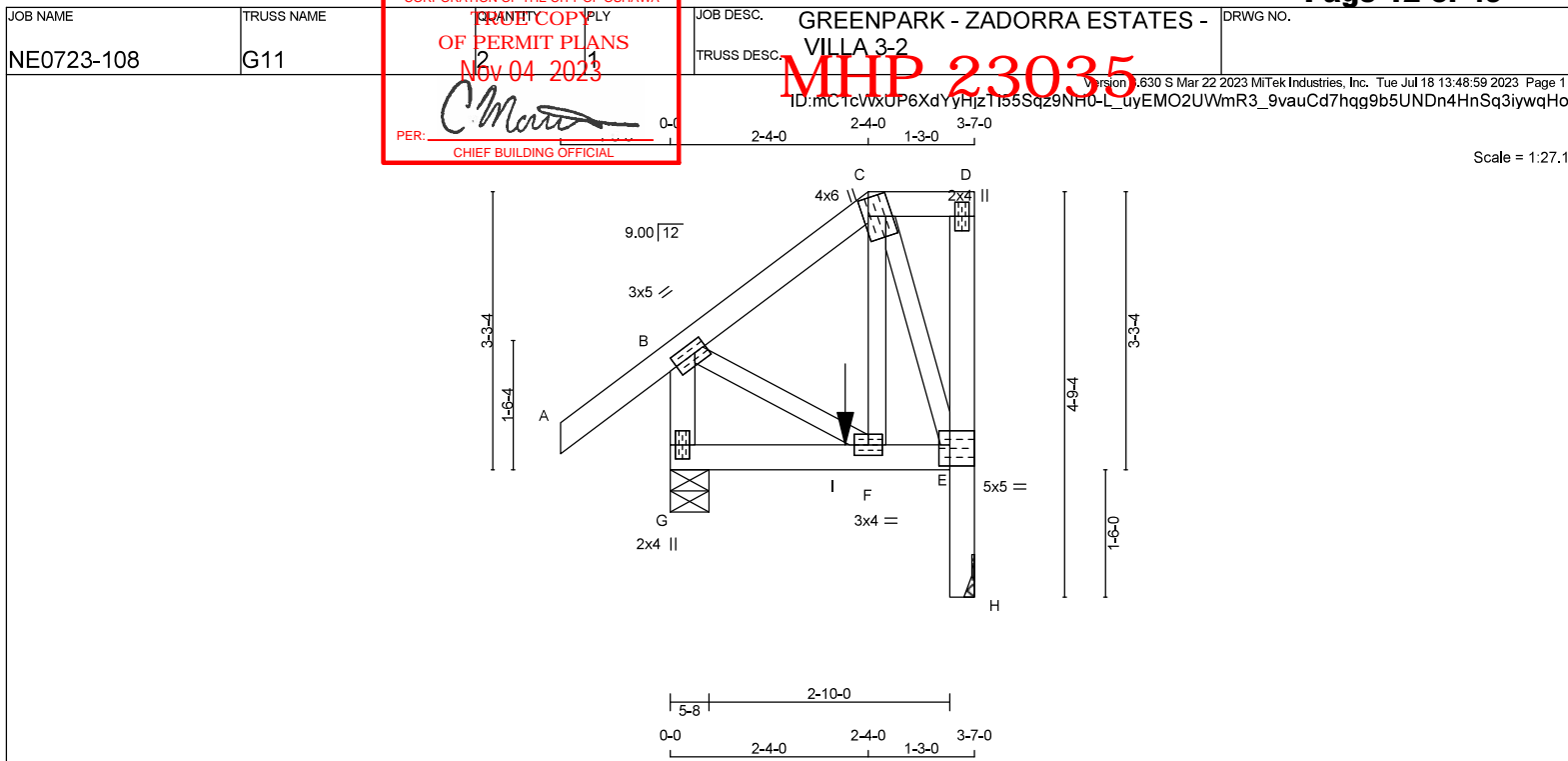


TOTAL WEIGHT = 128 lb

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

\_\_\_\_\_





TOTAL WEIGHT = 2 X 23 = 47 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - D	2x4	DRY	No.2
G - B	2x4	DRY	No.2
G - E	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
B	TMVW4	MT20	3.0	5.0	1.50	1.75
C	TTWW+m	MT20	4.0	6.0	2.50	0.75
D	TMV+p	MT20	2.0	4.0		
E	BMVW4	MT20	5.0	5.0	3.00	1.50
F	BMVW4	MT20	3.0	4.0		
G	BMV1+p	MT20	2.0	4.0		

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

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	DOWN	UPLIFT	IN-SX
H 186	0	267	0
G 426	0	426	0

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 1-8.

**UNFACTORED REACTIONS**

1ST LOASE	MAX. MIN. COMPONENT REACTIONS
JT COMBINED	SNOW LIVE PERM. LIVE WIND DEAD SOIL
H 186	135 / 0 0 / 0 0 / 0 51 / 0 0 / 0
G 295	229 / 0 0 / 0 0 / 0 66 / 0 0 / 0

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

**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: (7)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO		FROM TO		FR-TO		
A-B	0 / 49	-119.4 -119.4	0.20 (7)	10.00	F-C	0 / 64
B-C	-99 / 0	-119.4 -119.4	0.12 (6)	6.25	C-E	-205 / 0
C-D	0 / 0	-119.4 -119.4	0.03 (1)	10.00	B-F	0 / 87
H-E	-267 / 0	0.0 0.0	0.03 (1)	7.81		
E-D	-75 / 0	0.0 0.0	0.02 (1)	7.81		
G-B	-402 / 0	0.0 0.0	0.05 (1)	7.81		
G-I	0 / 0	-18.2 -18.2	0.03 (4)	10.00		
I-F	0 / 0	-18.2 -18.2	0.03 (4)	10.00		
F-E	0 / 80	-18.2 -18.2	0.03 (4)	10.00		

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	2-0-12	-24	-24	—	FRONT	VERT	TOTAL	—	C1

**CONNECTION REQUIREMENTS**

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

**CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN**

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**DESIGN CRITERIA**\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL	LOAD	=	48.1	PSF

**SPACING = 24.0 IN. C/C**

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

**\*\*\* 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 2015

**THIS DESIGN COMPLIES WITH:**

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

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

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

CSI: TC=0.20/0.97 (A-B:7), BC=0.03/0.97 (E-F:4), WB=0.04/0.97 (C-E:6), SS=0.12/1.00 (A-B:7)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

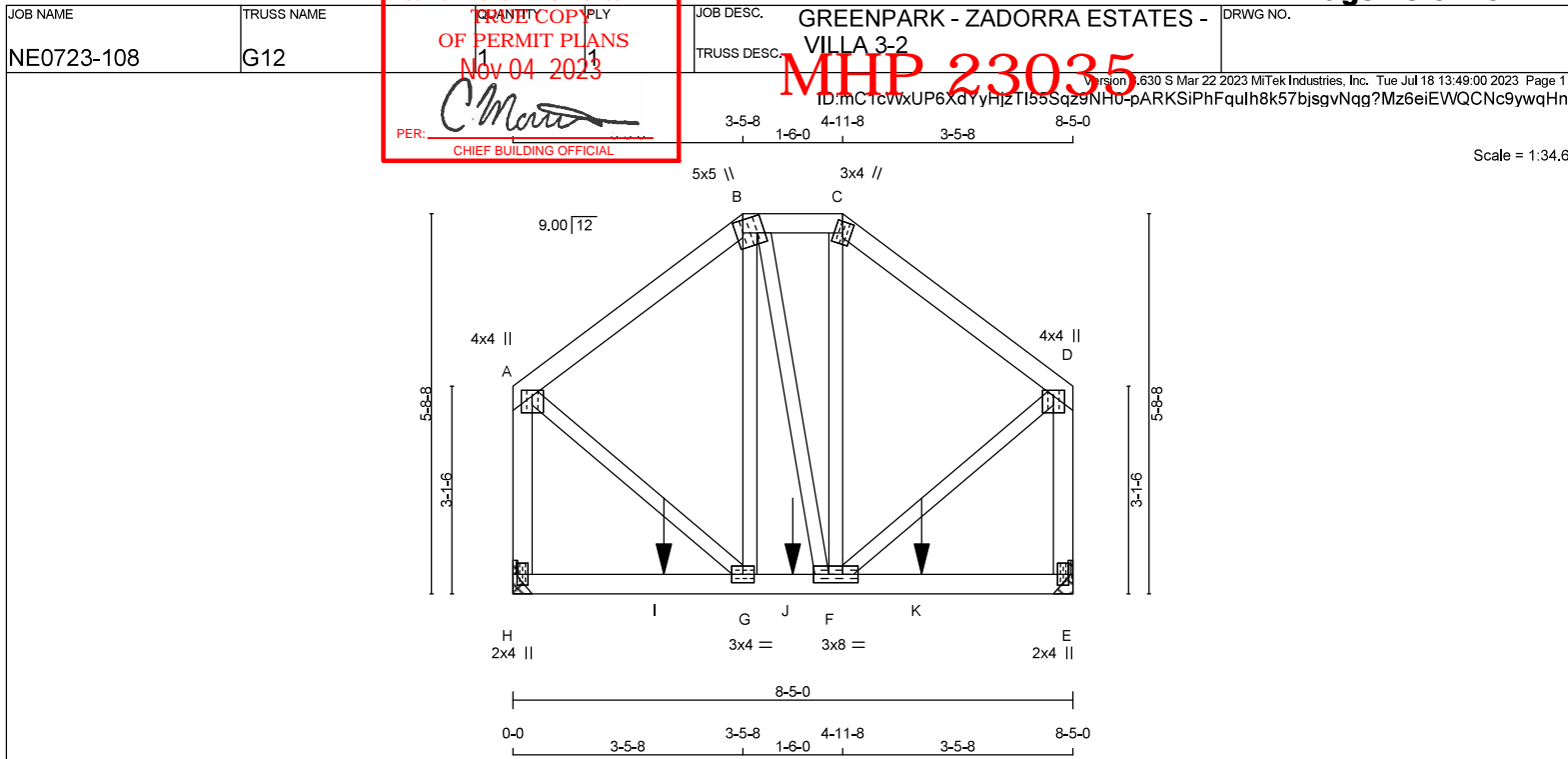
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (E) (INPUT = 0.90)  
JSI METAL = 0.08 (G) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE 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

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - A	2x4	DRY	No.2
E - D	2x4	DRY	No.2
H - E	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
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTVW+m	MT20	5.0	5.0	2.25	1.25
C	TTW+m	MT20	3.0	4.0		
D	TMVW+p	MT20	4.0	4.0	1.00	2.00
E	BMV1+p	MT20	2.0	4.0		
F	BMVWWH	MT20	3.0	8.0		
G	BMVWWH	MT20	3.0	4.0		
H	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
H	922	0	922	0	0	MECHANICAL	
E	922	0	922	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H, E. MINIMUM BEARING LENGTH AT JOINT H = 1-8, JOINT E = 1-8.

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	641	479 / 0	0 / 0	0 / 0	0 / 0	162 / 0	0 / 0
E	641	479 / 0	0 / 0	0 / 0	0 / 0	162 / 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO					FR-TO		
A-B	-513 / 0	-119.4	0.28 (1)	6.25	G-B	0 / 33	0.01 (4)
B-C	-410 / 0	-119.4	0.05 (1)	6.25	B-F	0 / 1	0.00 (4)
C-D	-513 / 0	-119.4	0.28 (1)	6.25	F-C	0 / 35	0.01 (4)
H-A	-836 / 0	0.0	0.0 0.15 (1)	7.81	A-G	0 / 519	0.13 (1)
E-D	-836 / 0	0.0	0.0 0.15 (1)	7.81	F-D	0 / 520	0.13 (1)
H-I	0 / 0	-18.2	-18.2 0.22 (1)	10.00			
I-G	0 / 0	-18.2	-18.2 0.22 (1)	10.00			
G-J	0 / 409	-18.2	-18.2 0.27 (1)	10.00			
J-F	0 / 409	-18.2	-18.2 0.27 (1)	10.00			
F-K	0 / 0	-18.2	-18.2 0.22 (1)	10.00			
K-E	0 / 0	-18.2	-18.2 0.22 (1)	10.00			

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
I	2-3-4	-172	-172	—	BACK	VERT	TOTAL	—	C1
J	4-2-8	-130	-130	—	BACK	VERT	TOTAL	—	C1
K	6-1-12	-172	-172	—	BACK	VERT	TOTAL	—	C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
 GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
 LOADS WERE DERIVED FROM USER INPUT  
 NO FURTHER MODIFICATIONS WERE MADE

**SPECIFIED LOADS:**

TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN. C/C**

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

\*\*\* 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 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.28")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
 ALLOWABLE DEFL.(TL) = L/360 (0.28")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.28/0.97 (C-D-1), BC=0.27/0.97 (F-G-1),  
 WB=0.13/0.97 (D-F-1), SSI=0.20/1.00 (E-F-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

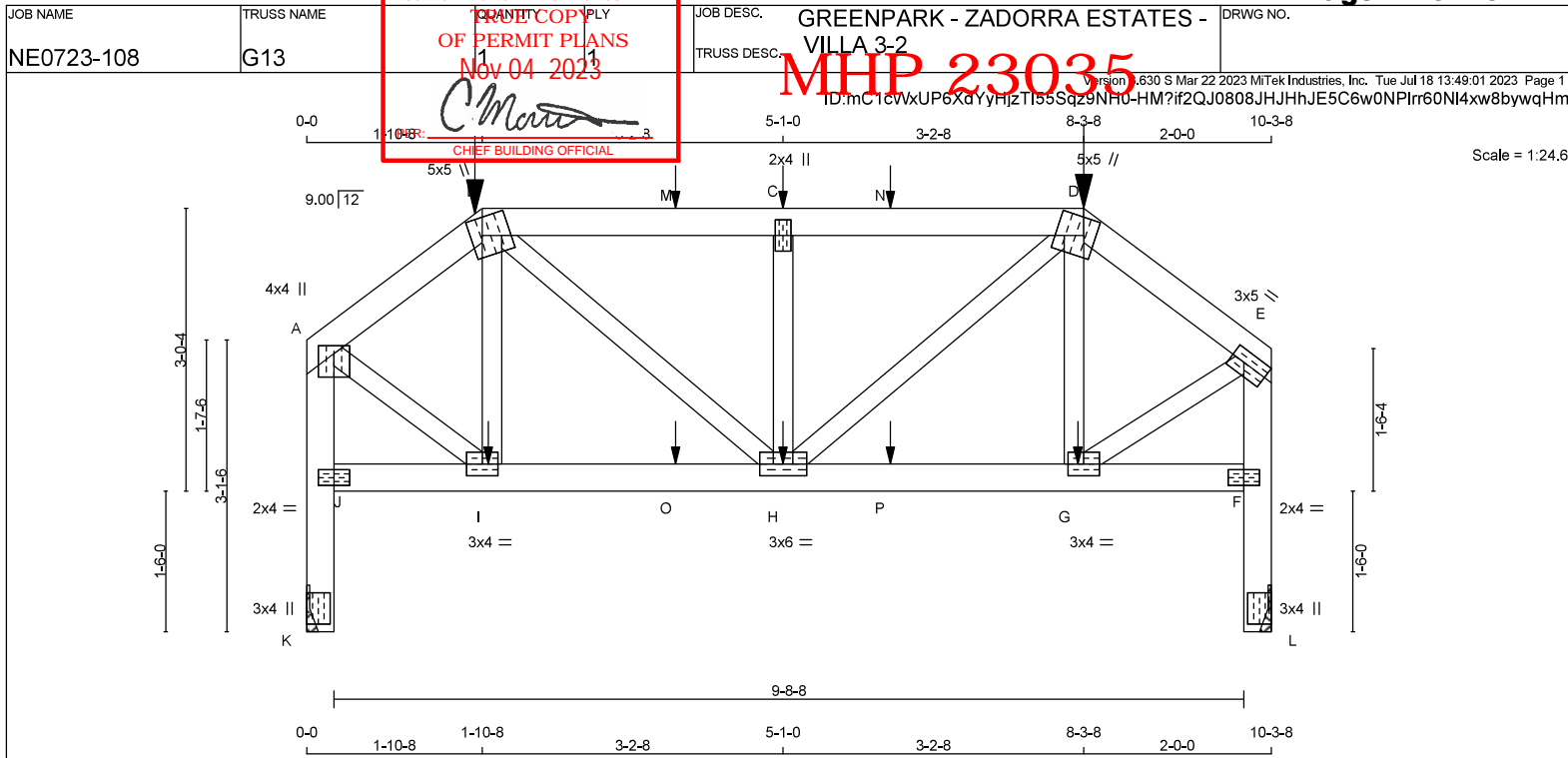
JSI GRIP= 0.77 (G) (INPUT = 0.90)  
 JSI METAL = 0.18 (E) (INPUT = 1.00)



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





**LUMBER**

N. L. G. A. RULES

CHORDS	SIZE	LUMBER
A - B	2x4	DRY No.2
B - D	2x4	DRY No.2
D - E	2x4	DRY No.2
K - A	2x4	DRY No.2
L - E	2x4	DRY No.2
J - F	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
A	TMVW+p	MT20	4.0	4.0	1.00	2.00
B	TTVW+m	MT20	5.0	5.0	2.25	1.50
C	TMVW+w	MT20	2.0	4.0		
D	TTVW+m	MT20	5.0	5.0	2.25	1.50
E	TMVW-H	MT20	3.0	5.0	1.50	Edge
F	BMV-H	MT20	2.0	4.0		
G	BMVW-H	MT20	3.0	4.0		
H	BMVW-H	MT20	3.0	6.0		
I	BMVW-H	MT20	3.0	4.0		
J	BMV-H	MT20	2.0	4.0		
K	EBSP-t	MT20	3.0	4.0		1.00
L	EBSP-t	MT20	3.0	4.0		1.00

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	REQD BRG
K	712 0	712 0	0	MECHANICAL
L	712 0	712 0	0	MECHANICAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT K, L. MINIMUM BEARING LENGTH AT JOINT K = 1-8, JOINT L = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	498	358 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0
L	498	358 / 0	0 / 0	0 / 0	0 / 0	140 / 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)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC. LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC. LENGTH (LC)	
FR-TO				FR-TO			
A-B	-525 / 0	-119.4	0.08 (1)	B-H	-213 / 0	0.04 (1)	
B-M	-720 / 0	-119.4	0.21 (1)	H-H	0 / 406	0.10 (1)	
M-C	-720 / 0	-119.4	0.21 (1)	H-C	-460 / 0	0.09 (1)	
C-N	-720 / 0	-119.4	0.21 (1)	H-D	0 / 380	0.09 (1)	
N-D	-720 / 0	-119.4	0.21 (1)	G-D	-189 / 0	0.04 (1)	
D-E	-549 / 0	-119.4	0.09 (1)	A-I	0 / 499	0.12 (1)	
K-J	-712 / 0	0.0	0.09 (1)	G-E	0 / 503	0.12 (1)	
J-A	-701 / 0	0.0	0.08 (1)				
L-F	-712 / 0	0.0	0.09 (1)				
F-E	-700 / 0	0.0	0.08 (1)				
J-I	0 / 0	-18.2	-18.2 0.03 (4)				
I-O	0 / 410	-18.2	-18.2 0.10 (1)				
O-H	0 / 410	-18.2	-18.2 0.10 (1)				
H-P	0 / 430	-18.2	-18.2 0.10 (1)				
P-G	0 / 430	-18.2	-18.2 0.10 (1)				
G-F	0 / 0	-18.2	-18.2 0.03 (4)				

**SPECIFIED CONCENTRATED LOADS (LBS)**

JT	LOC.	LC1	MAX-	MAX+	FACE	DIR.	TYPE	HEEL	CONN.
B	1-10-8	-3	-3		BACK	VERT	TOTAL		C1
C	5-1-0	1	1		BACK	VERT	TOTAL		C1
D	8-3-8	-3	-3		BACK	VERT	TOTAL		C1
G	8-2-12	1	1		BACK	VERT	TOTAL		C1
H	5-1-0	1	1		BACK	VERT	TOTAL		C1
I	1-11-4	1	1		BACK	VERT	TOTAL		C1
M	3-11-4	1	1		BACK	VERT	TOTAL		C1
N	6-2-12	1	1		BACK	VERT	TOTAL		C1
O	3-11-4	1	1		BACK	VERT	TOTAL		C1
P	6-2-12	1	1		BACK	VERT	TOTAL		C1

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**\*\*\* SPECIAL LOADS ANALYSIS \*\*\*  
GEOMETRY AND/OR BASIC LOADS CHANGED BY USER.  
LOADS WERE DERIVED FROM USER INPUT  
NO FURTHER MODIFICATIONS WERE MADE**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

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

\*\*\* 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, NBC 2015

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.34")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.34")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.21/0.97 (B-C-1), BC=0.10/0.97 (G-H-1), WB=0.12/0.97 (E-G-1), SSI=0.20/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

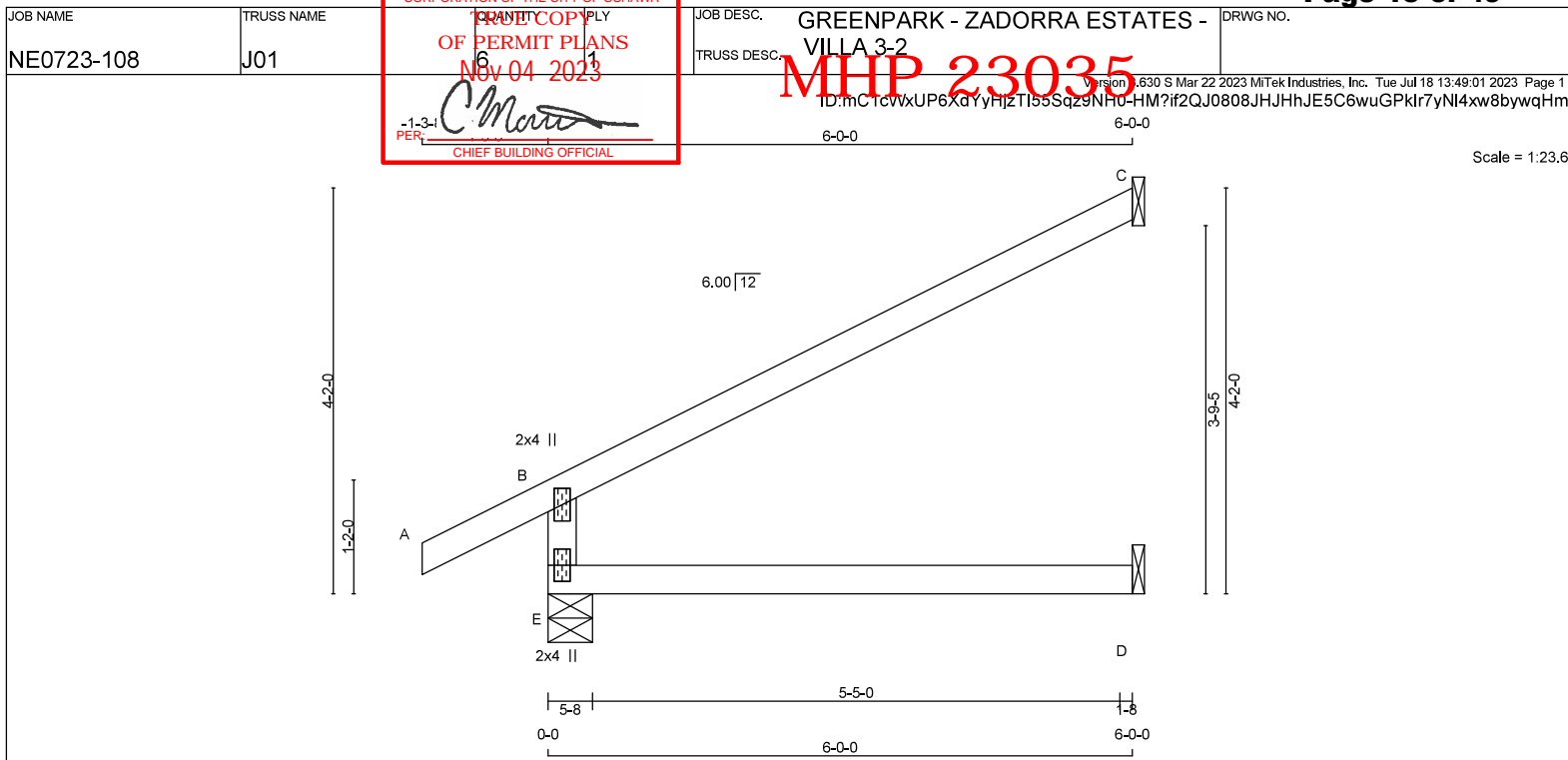
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.86 (E) (INPUT = 0.90)  
JSI METAL = 0.18 (E) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE 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
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	674	0	674	0	0	5-8	1-8
C	269	0	269	0	0	1-8	1-8
D	45	0	51	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	468	355 / 0	0 / 0	0 / 0	0 / 0	113 / 0	0 / 0	0 / 0
C	184	157 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 0	0 / 0	0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CS1 (LC)
FR-TO					FR-TO		
E-B	-610 / 0	0.0	0.0	0.13 (4)	7.81		
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00		
B-C	-40 / 0	-119.4	-119.4	0.73 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.13 (4)	10.00		

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.3 PSF  
TOTAL LOAD = 48.1 PSF

**SPACING = 24.0 IN./C**

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

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.73/0.97 (B-C-1) , BC=0.13/0.97 (D-E-4) ,  
WB=0.00/0.97 (n/a-0) , SSI=0.31/1.00 (B-C-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.34 (B) (INPUT = 0.90 )  
JSI METAL= 0.25 (B) (INPUT = 1.00 )



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



<b>LUMBER</b>										<b>DIMENSIONS, SUPPORTS AND LOADINGS AS PROVIDED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER</b>										<b>DESIGN CRITERIA</b>																									
N, L, G, A, RULES										<b>BEARINGS</b>										SPECIFIED LOADS:																									
CHORDS	SIZE		LUMBER		DESCR.		SPF		SPF		FACTORED		MAXIMUM FACTORED		INPUT		REQRD		TOP CH. LL = 34.8 PSF																										
E - B	2x4		DRY		No.2		SPF		SPF		GROSS REACTION		GROSS REACTION		BRG		BRG		DL = 6.0 PSF																										
A - C	2x4		DRY		No.2		SPF		SPF		JT VERT		DOWN		HORZ		UPLIFT		BOT CH. LL = 0.0 PSF																										
E - D	2x4		DRY		No.2		SPF		SPF		E 518		0		518		0		DL = 7.3 PSF																										
DRY: SEASONED LUMBER.										C 175										TOTAL LOAD = 48.1 PSF																									
										D 45																																			



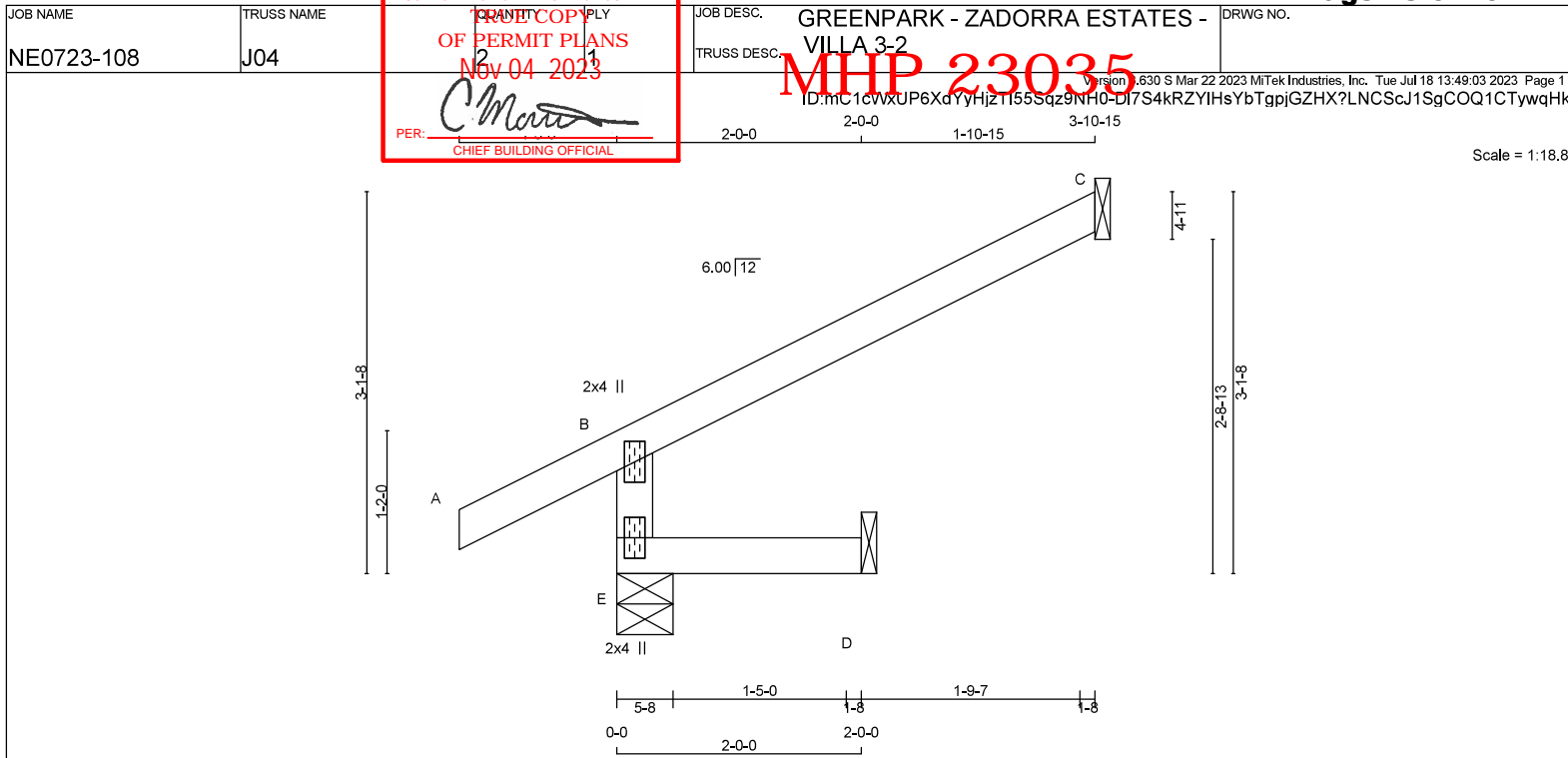
**READ ALL NOTES ON THIS PAGE AND ON THE  
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
IS AN INTEGRAL PART OF THIS DRAWING AS IT  
CONTAINS SPECIFICATIONS AND CRITERIA USED  
IN THE DESIGN OF THIS COMPONENT.**



JSI GRIP= 0.17 (B) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )







TOTAL WEIGHT = 2 X 10 = 20 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	474	0	474	0	5-8	1-8
C	175	0	175	0	1-8	1-8
D	16	0	16	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	326	265 / 0	0 / 0	0 / 0	0 / 0	62 / 0	0 / 0
C	120	102 / 0	0 / 0	0 / 0	0 / 0	18 / 0	0 / 0
D	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) E

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

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

**LOADING**

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO										
E-B		-454 / 0	0.0	0.0	0.01 (4)	7.81				
A-B		0 / 36	-119.4	-119.4	0.16 (1)	10.00				
B-C		-26 / 0	-119.4	-119.4	0.31 (1)	6.25				
E-D		0 / 0	-18.2	-18.2	0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE 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=0.31/0.97 (B-C:1) , BC=0.02/0.97 (D-E:4) ,  
WB=0.00/0.97 (n/a:0) , SSH=0.20/1.00 (B-C:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

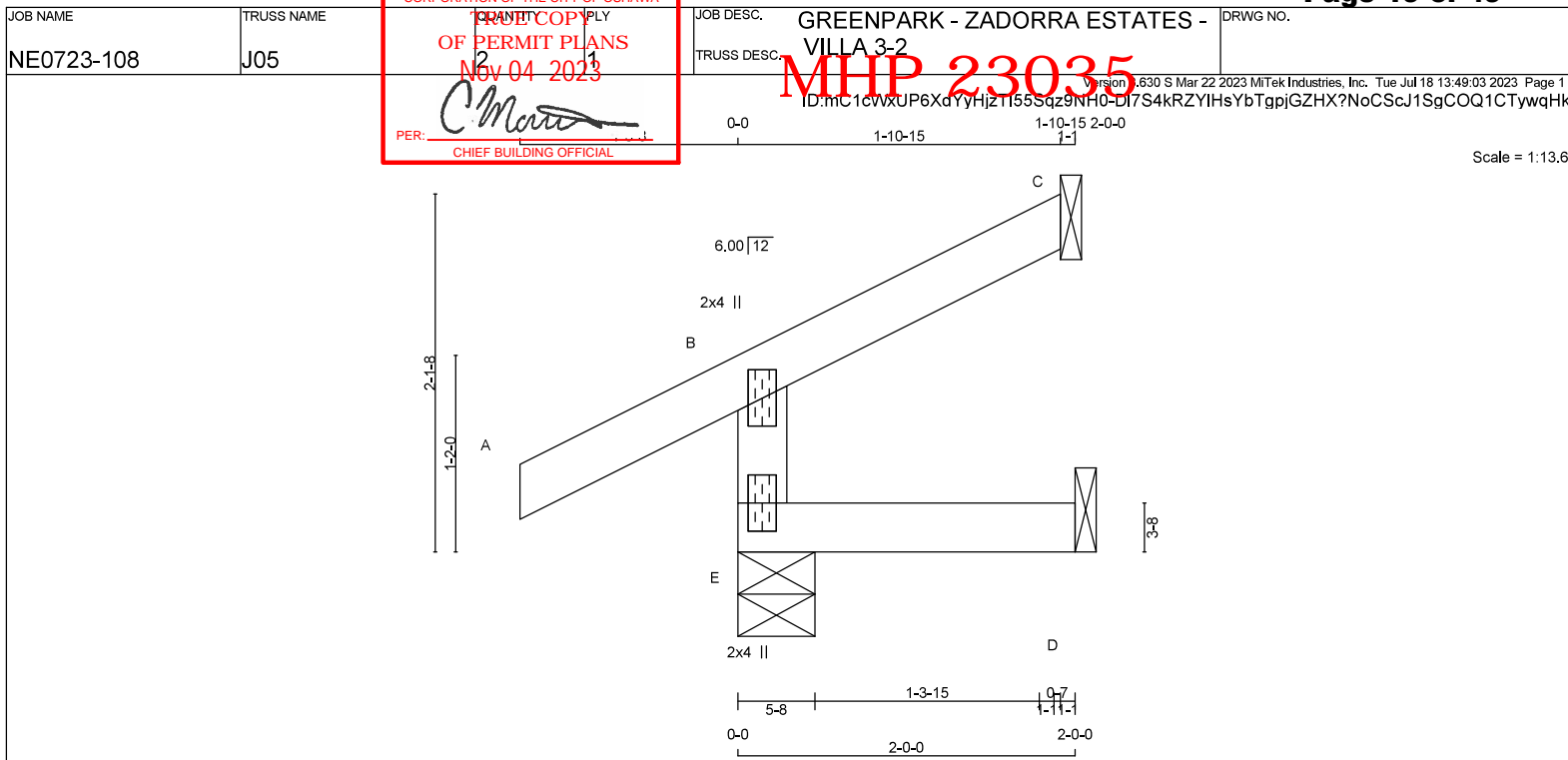
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.25 (B) (INPUT = 0.90)  
JSI METAL = 0.19 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE 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 7 = 15 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
E	324	0	324	0	5-8	1-8
C	86	0	86	0	1-8	1-8
D	16	0	16	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	224	177 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	59	50 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	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) E, C

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

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

**LOADING**

TOTAL LOAD CASES: (5)

MEMB.	CHORDS	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. VERT. LOAD (LC1)	MAX. HORIZ. LOAD (LC2)	MAX. UNBRACED LENGTH (FT)	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. HORIZ. LOAD (LC2)
FR-TO							FR-TO			
E-B		-304 / 0	0.0	0.0	0.01 (4)	7.81				
A-B		0 / 36	-119.4	-119.4	0.16 (1)	10.00				
B-C		-12 / 0	-119.4	-119.4	0.07 (1)	6.25				
E-D		0 / 0	-18.2	-18.2	0.02 (4)	10.00				

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(55 % OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")CSI: TC=0.16/0.97 (A-B:1), BC=0.02/0.97 (D-E:4),  
WB=0.00/0.97 (n/a:0), SSI=0.11/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

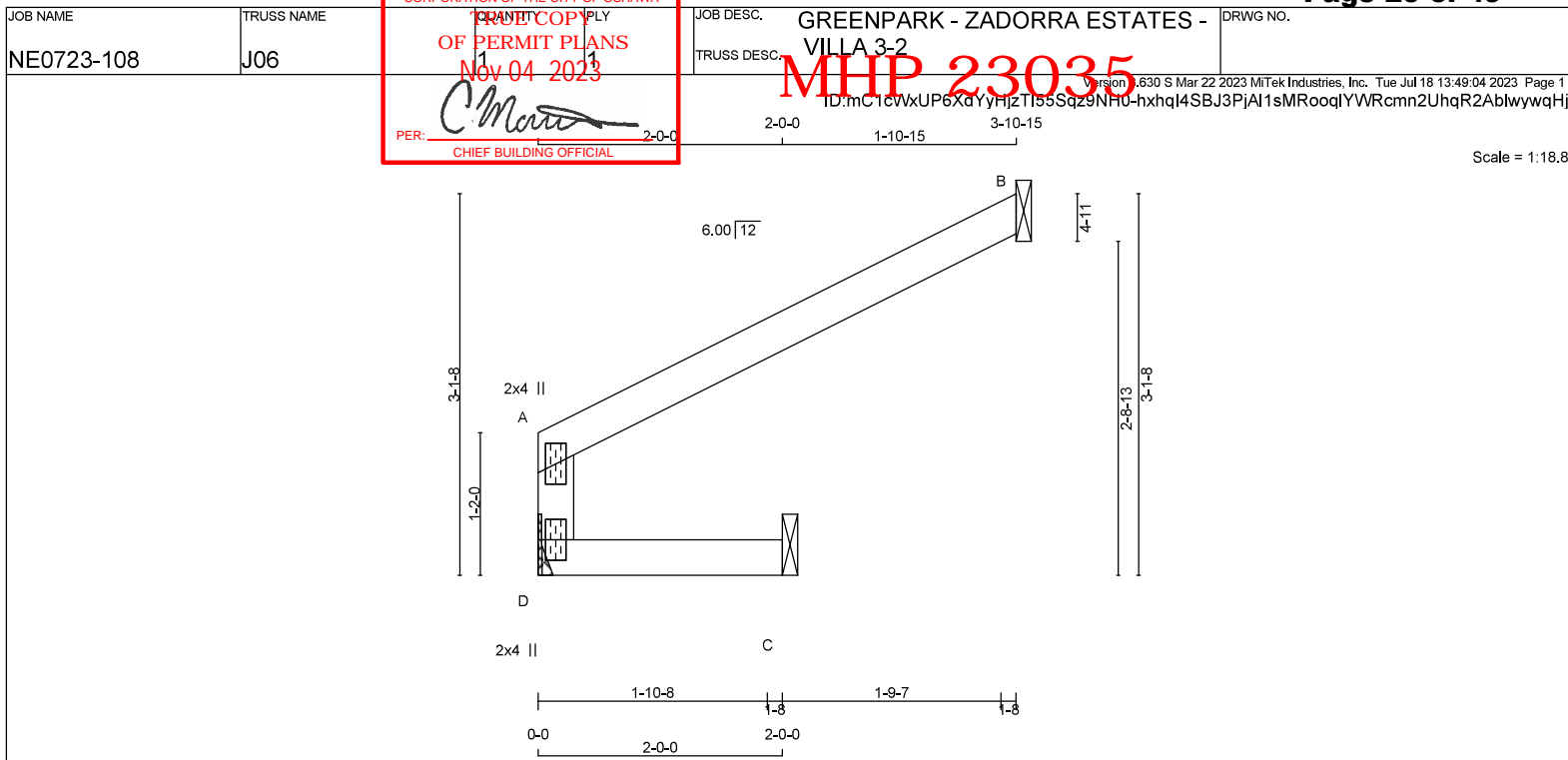
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.17 (B) (INPUT = 0.90)  
JSI METAL= 0.13 (B) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE 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
D - A	2x4	DRY	No.2
A - B	2x4	DRY	No.2
D - C	2x4	DRY	No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	225	0	225	0	0	1-8	1-8
B	206	0	206	0	0	1-8	1-8
C	73	0	73	0	0	1-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
D	156	120 / 0	0 / 0
B	141	120 / 0	0 / 0
C	52	32 / 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 FORCE (LBS)	FACTORED VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	UNBRACED LENGTH FR-TO	MEMB.	WEBS	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)
D-A	-262 / 0	0.0	0.0	0.13 (1)	7.81				
A-B	-13 / 0	-119.4	-119.4	0.23 (1)	6.25				
D-C	0 / 0	-18.2	-18.2	0.15 (1)	10.00				

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD		=	48.1	PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.23/0.97 (A-B:1) , BC=0.15/0.97 (C-D:1) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.18/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

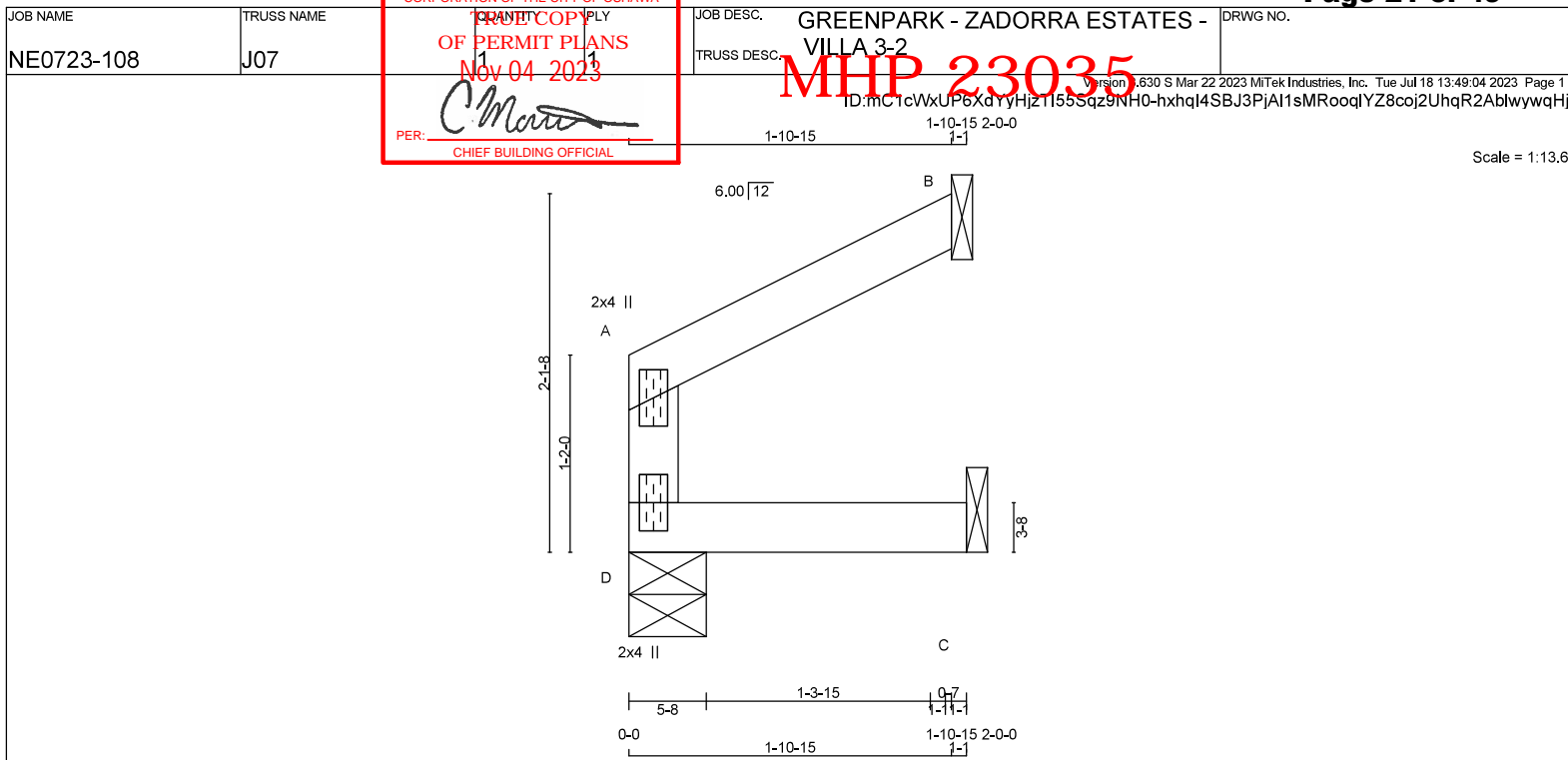
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.15 (A) (INPUT = 0.90 )  
JSI METAL = 0.11 (A) (INPUT = 1.00 )



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE 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
D - A	2x4	DRY	No.2
A - B	2x4	DRY	No.2
D - C	2x4	DRY	No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG
D	133	0	133	0	5-8	1-8
B	107	0	107	0	1-8	1-8
C	25	0	25	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B, C

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	93	67 / 0	0 / 0	0 / 0	0 / 0	26 / 0	0 / 0
B	73	61 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	19	5 / 0	0 / 0	0 / 0	0 / 0	14 / 0	0 / 0

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

**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)

MEMB.	MAX. FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CS1 (LC)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FORCE (LBS)	MAX. FACTORED CS1 (LC)
FR-TO							
D-A	-122 / 0	0.0	0.0	0.02 (1)	7.81		
A-B	-3 / 0	-119.4	-119.4	0.05 (1)	10.00		
D-C	0 / 0	-18.2	-18.2	0.02 (1)	10.00		

**DESIGN CRITERIA**

SPECIFIED LOADS:		
TOP CH. LL	=	34.8 PSF
DL	=	6.0 PSF
BOT CH. LL	=	0.0 PSF
DL	=	7.3 PSF
TOTAL LOAD	=	48.1 PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.05/0.97 (A-B:1), BC=0.02/0.97 (C-D:1),  
 WB=0.00/0.97 (n/a:0), SSI=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

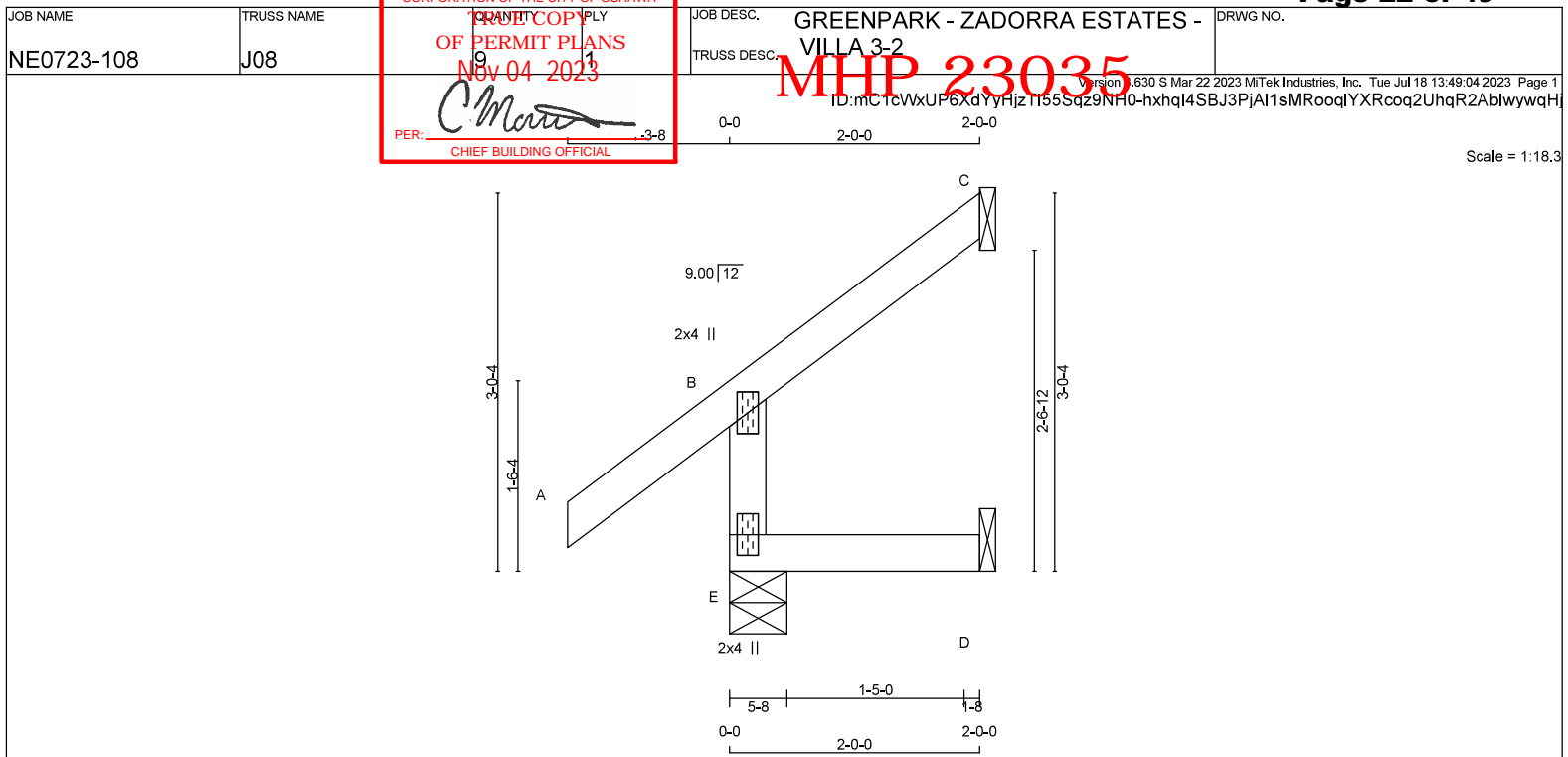
JSI GRIP= 0.07 (A) (INPUT = 0.90)  
 JSI METAL = 0.05 (A) (INPUT = 1.00)



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







<b>LUMBER</b>			
<b>N. L. G. A. RULES</b>			
<b>CHORDS</b>	<b>SIZE</b>		<b>LUMBER</b>
E - B	2x4	DRY	No.2
A - C	2x4	DRY	No.2
E - D	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

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

**DESIGNER  
BEARINGS**

FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION			INPUT BRG	REQD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT IN-SX	IN-SX
E	333	0	333	0	0	5-8
C	90	0	90	0	0	1-8
D	17	0	19	0	0	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

### UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
E	230	183 / 0	0 / 0	0 / 0	0 / 0	47 / 0	0 / 0
C	62	53 / 0	0 / 0	0 / 0	0 / 0	9 / 0	0 / 0
D	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) E

## BRACING

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

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

## LOADING

**TOTAL LOAD CASES: (5)**

C H O R D S			W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (LBS)	LC1 MAX CSI (LC)	MAX. UNBRAC LENGTH	MEMB. FORCE (LBS)	MAX. FACTORED MAX CSI (LC)
FR-TO		FROM	TO	FR-TO		
E-B	-313 / 0	0.0	0.0	0.01 (4)	7.81	
A-B	0 / 49	-119.4	-119.4	0.16 (1)	10.00	
B-C	-17 / 0	-119.4	-119.4	0.08 (1)	6.25	
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00	

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS

## DESIGN CRITERIA

**SPECIFIED LOADS:**

TOP	CH.	LL	=	34.8	PSF
		DL	=	6.0	PSF
BOT	CH.	LL	=	0.0	PSF
		DL	=	7.3	PSF
TOTAL LOAD				=	48.1 PSF

SPACING = 24.0 IN. C/C

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

**THIS DESIGN COMPLIES WITH:**

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

## DESIGN ASSUMPTIONS

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.16/0.97 (A-B:1) , BC=0.02/0.97 (D-E:4) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.10/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

## NAIL VALUES

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

PLATE PLACEMENT TOL. = 0.250 inches

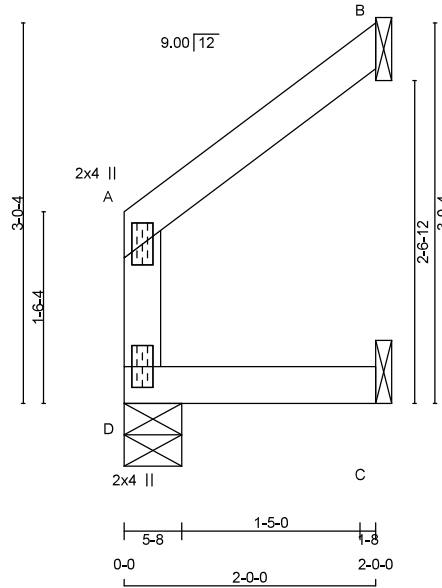
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.20 (B) (INPUT = 0.90 )  
JSI METAL= 0.17 (B) (INPUT = 1.00 )



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





<b>LUMBER</b>			
<b>N. L. G. A. RULES</b>			
<b>CHORDS</b>	<b>SIZE</b>		<b>LUMBER</b>
D - A	2x4	DRY	No.2
A - B	2x4	DRY	No.2
D - C	2x4	DRY	No.2

DRY: SEASONED LUMBER.

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

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

DESIGNER  
BEARINGS

BEARINGS		FACTORED GROSS REACTION		MAXIMUM FACTORED GROSS REACTION		INPUT BRG	REQRD BRG
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	138	0	138	0	0	5-8	1-8
B	111	0	111	0	0	1-8	1-8
C	26	0	26	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B , C

### UNFACTORED REACTIONS

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	96	70 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
B	76	64 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	20	5 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

## 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)**

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRAC. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRAC. CSI (LC)	
FR-TO		FROM TO	LENGTH	FR-TO			
D-A	-127 / 0	0.0 0.02 (1)	7.81				
A-B	-5 / 0	-119.4 -119.4 0.06 (1)	10.00				
D-C	0 / 0	-18.2 -18.2 0.03 (1)	10.00				

## DESIGN CRITERIA

SPECIFIED LOADS:			
TOP CH.	LL =	34.8	PSF
	DL =	6.0	PSF
BOT CH.	LL =	0.0	PSF
	DL =	7.3	PSF
TOTAL LOAD	=	48.1	PSF

SPACING = 24.0 IN. C/C

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.06/0.97 (A-B:1) , BC=0.03/0.97 (C-D:1) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.08/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

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

PLATE PLACEMENT TOL. = 0.250 inches

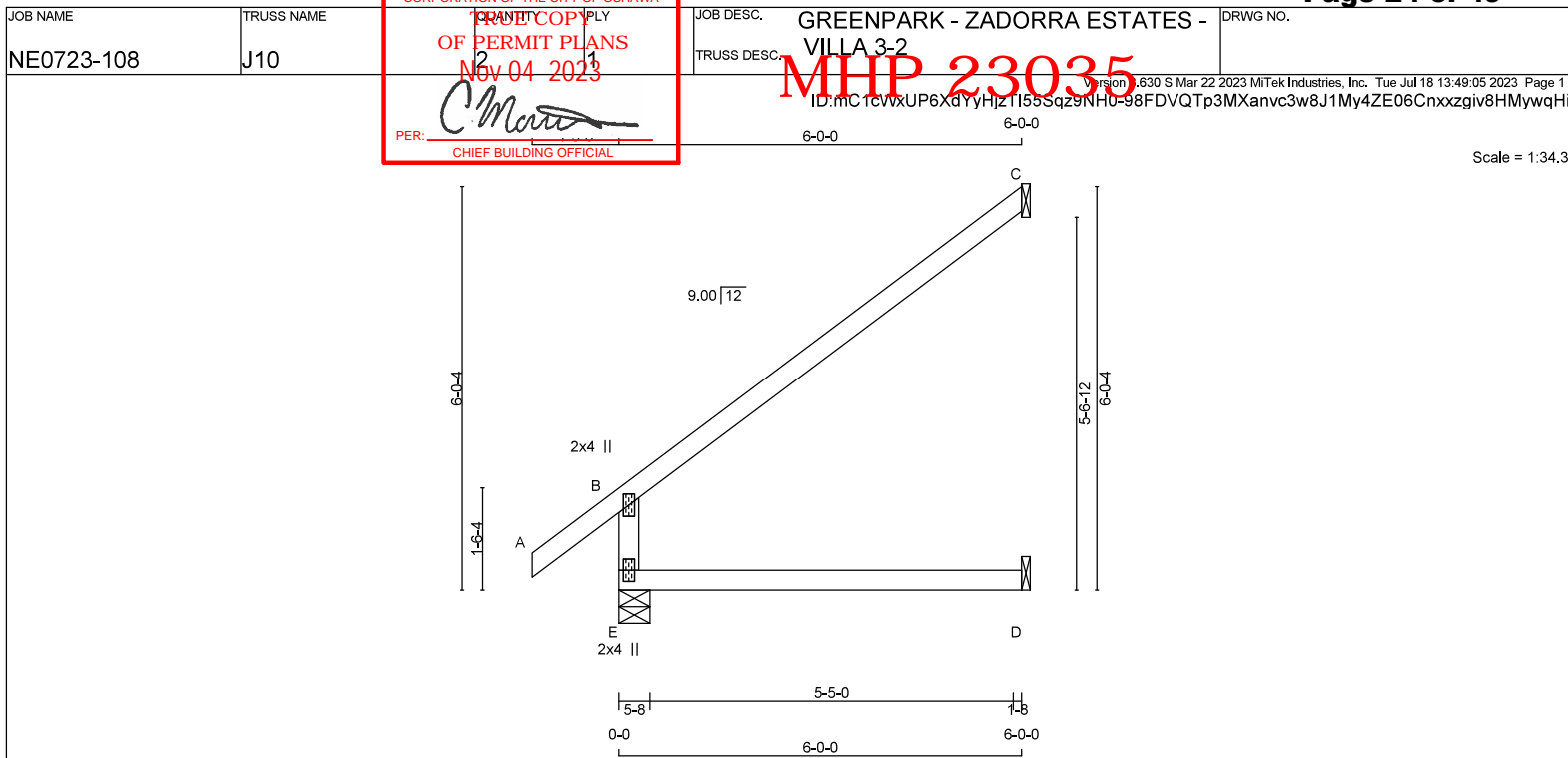
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (A) (INPUT = 0.90 )  
JSI METAL= 0.07 (A) (INPUT = 1.00 )



**READ ALL NOTES ON THIS PAGE AND ON THE  
ENGINEERING NOTES: TRUSSES. THE 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 19 = 37 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
E	676	0	676	0	0	5-8	1-8
C	269	0	269	0	0	1-8	1-8
D	46	0	52	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) C, D

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	469	357 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0
C	184	157 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
D	37	0 / 0	0 / 0	0 / 0	0 / 0	37 / 0	0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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 (PLF)	MAX. UNBRACED LENGTH FR-TO	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH FR-TO
FR-TO				FR-TO		
E-B	-612 / 0	0.0	0.0 0.12 (4)	7.81		
A-B	0 / 49	-119.4	-119.4 0.16 (1)	10.00		
B-C	-54 / 0	-119.4	-119.4 0.73 (1)	6.25		
E-D	0 / 0	-18.2	-18.2 0.14 (4)	10.00		

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

ALLOWABLE DEFL.(LL) = L/360 (0.20")

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

ALLOWABLE DEFL.(TL) = L/360 (0.20")

CALCULATED VERT. DEFL.(TL) = L/ 999 (0.04")

CSI: TC=0.73/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) ,

WB=0.00/0.97 (n/a:0) , SSH=0.28/1.00 (B-C:1)

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

SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

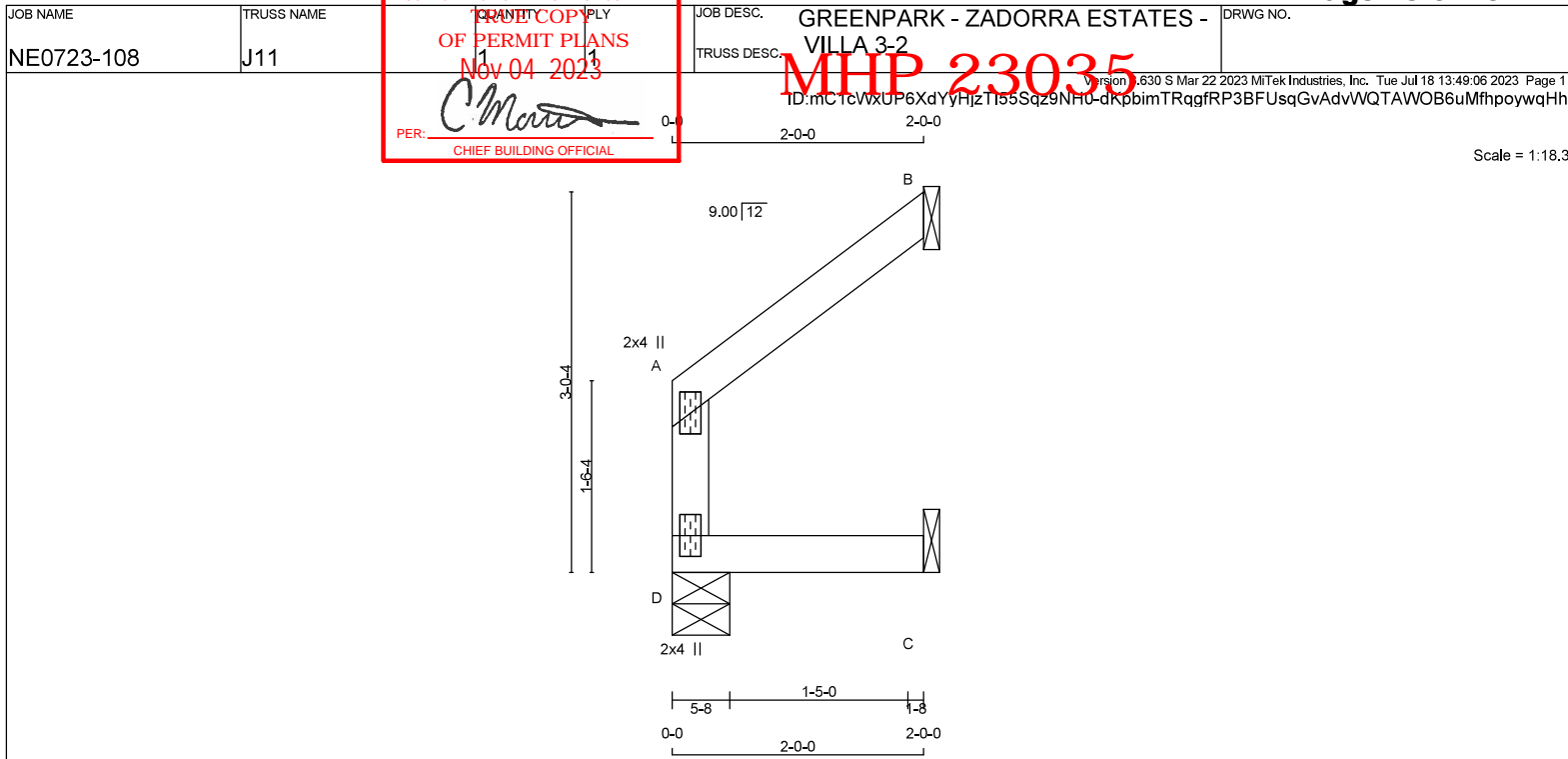
JSI GRIP= 0.40 (B) (INPUT = 0.90 )

JSI METAL= 0.32 (B) (INPUT = 1.00 )



READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE 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
D - A	2x4	DRY	No.2
A - B	2x4	DRY	No.2
D - C	2x4	DRY	No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
A	TMV+p	MT20	2.0	4.0		
D	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	REGRD
D	138	0	138	0	0	5-8	1-8
B	111	0	111	0	0	1-8	1-8
C	26	0	26	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL MSD2015-H FOR CONNECTION TO JOINT(S) B, C

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
D	96	70 / 0	0 / 0	0 / 0	0 / 0	27 / 0	0 / 0
B	76	64 / 0	0 / 0	0 / 0	0 / 0	12 / 0	0 / 0
C	20	5 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

**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)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
FR-TO				FR-TO		
D-A	-127 / 0	0.0	0.02 (1)	7.81		
A-B	-5 / 0	-119.4	0.06 (1)	10.00		
D-C	0 / 0	-18.2	-18.2	0.03 (1)	10.00	

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE 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=0.06/0.97 (A-B:1), BC=0.03/0.97 (C-D:1),  
WB=0.00/0.97 (n/a:0), SSI=0.08/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

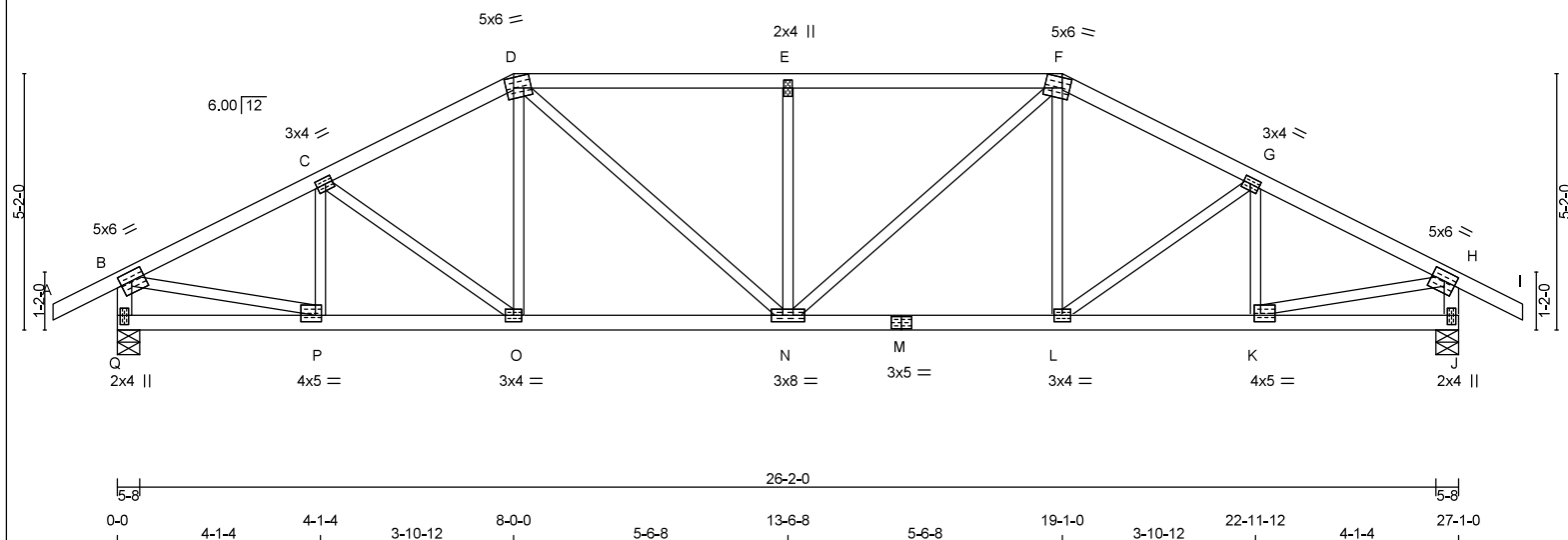
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.08 (A) (INPUT = 0.90)  
JSI METAL = 0.07 (A) (INPUT = 1.00)

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



JOB NAME NE0723-108	TRUSS NAME T01	CORPORATION OF THE CITY OF OSHAWA DESIGN COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO.
		PERSON: 630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:49:06 2023 Page 1 ID: mC1cwXUP6XdYyHjz1155Sqz9NH0-dKpbimTRqgRP3BFUsqGvAdnaQNYWG6uMfhpywqHh		
Scale = 1:46.5				



<b>LUMBER</b> N. L. G. A. RULES CHORDS SIZE LUMBER A - D 2x4 DRY No.2 D - F 2x4 DRY No.2 F - I 2x4 DRY No.2 Q - B 2x4 DRY No.2 J - H 2x4 DRY No.2 Q - M 2x4 DRY No.2 M - J 2x4 DRY No.2 ALL WEBS 2x3 DRY No.2 EXCEPT DRY: SEASONED LUMBER.				<b>DESIGN CRITERIA</b> SPECIFIED LOADS: TOP CH. LL = 34.8 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 48.1 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 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.90") CALCULATED VERT. DEFL.(LL) = L/999 (0.12") ALLOWABLE DEFL.(TL) = L/360 (0.90") CALCULATED VERT. DEFL.(TL) = L/999 (0.21") CSI: TC=0.57/0.97 (D-E:1), BC=0.42/0.97 (K-L:1), WB=0.53/0.97 (H-K:1), SS=0.32/1.00 (D-E:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PL) (PSI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP = 0.88 (P) (INPUT = 0.90) JSI METAL = 0.69 (M) (INPUT = 1.00)			
<b>PLATES (table is in inches)</b> JT TYPE PLATES W LEN Y X B TMVW4 MT20 5.0 6.0 2.25 2.75 C TMVW4 MT20 3.0 4.0 1.50 1.75 D TTWW-m MT20 5.0 6.0 2.50 1.75 E TMVW-w MT20 2.0 4.0 F TTWW-m MT20 5.0 6.0 2.50 1.75 G TMVW4 MT20 3.0 4.0 1.50 1.75 H TMVW4 MT20 5.0 6.0 2.25 2.75 J BMV1-p MT20 2.0 4.0 2.25 1.00 K BMVW4 MT20 4.0 5.0 1.50 1.50 L BMVW4 MT20 3.0 4.0 M BS4 MT20 3.0 5.0 N BMVW4 MT20 3.0 8.0 O BMVW4 MT20 3.0 4.0 P BMVW4 MT20 4.0 5.0 1.50 1.50 Q BMV1-p MT20 2.0 4.0 2.25 1.00				<b>DESIGN CRITERIA</b> SPECIFIED LOADS: TOP CH. LL = 34.8 PSF DL = 6.0 PSF BOT CH. LL = 0.0 PSF DL = 7.3 PSF TOTAL LOAD = 48.1 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 2015 THIS DESIGN COMPLIES WITH: - PART 9 OF CBC 2018, NBC-2019AE - PART 9 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014 (55% OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD ALLOWABLE DEFL.(LL) = L/360 (0.90") CALCULATED VERT. DEFL.(LL) = L/999 (0.12") ALLOWABLE DEFL.(TL) = L/360 (0.90") CALCULATED VERT. DEFL.(TL) = L/999 (0.21") CSI: TC=0.57/0.97 (D-E:1), BC=0.42/0.97 (K-L:1), WB=0.53/0.97 (H-K:1), SS=0.32/1.00 (D-E:1) DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10 SHEAR=1.10 TENS=1.10 COMPANION LIVE LOAD FACTOR = 1.00 TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT. NAIL VALUES PLATE GRIP(DRY) SHEAR SECTION (PL) (PSI) MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873 PLATE PLACEMENT TOL. = 0.250 inches PLATE ROTATION TOL. = 5.0 Deg. JSI GRIP = 0.88 (P) (INPUT = 0.90) JSI METAL = 0.69 (M) (INPUT = 1.00)			
<b>CHORDS</b> MAX. FACTORED FORCE (LBS) FR-TO A-B 0/36 B-C -2549/0 C-D -2446/0 D-E -2685/0 E-F -2685/0 F-G -2446/0 G-H -2549/0 H-I 0/36 I-J -1988/0 J-H -1988/0 Q-P 0/0 P-O 0/2301 O-N 0/2169 N-M 0/2169 M-L 0/2169 L-K 0/2301 K-J 0/0				<b>CHORDS</b> MAX. FACTORED FORCE (LBS) FR-TO A-B 0/36 B-C -2549/0 C-D -2446/0 D-E -2685/0 E-F -2685/0 F-G -2446/0 G-H -2549/0 H-I 0/36 I-J -1988/0 J-H -1988/0 Q-P 0/0 P-O 0/2301 O-N 0/2169 N-M 0/2169 M-L 0/2169 L-K 0/2301 K-J 0/0			
<b>FACTORED</b> VERT. LOAD LC1 FROM TO -119.4 -119.4 0.16 (1) -119.4 -119.4 0.30 (1) -119.4 -119.4 0.29 (1) -119.4 -119.4 0.57 (1) -119.4 -119.4 0.29 (1) -119.4 -119.4 0.30 (1) -119.4 -119.4 0.16 (1) 0.0 0.0 0.20 (1) 0.0 0.0 0.20 (1) -18.2 -18.2 0.07 (4) -18.2 -18.2 0.42 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.42 (1) -18.2 -18.2 0.07 (4)				<b>FACTORED</b> VERT. LOAD LC1 FROM TO -119.4 -119.4 0.16 (1) -119.4 -119.4 0.30 (1) -119.4 -119.4 0.29 (1) -119.4 -119.4 0.57 (1) -119.4 -119.4 0.29 (1) -119.4 -119.4 0.30 (1) -119.4 -119.4 0.16 (1) 0.0 0.0 0.20 (1) 0.0 0.0 0.20 (1) -18.2 -18.2 0.07 (4) -18.2 -18.2 0.42 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.40 (1) -18.2 -18.2 0.42 (1) -18.2 -18.2 0.07 (4)			
<b>MAX. UNBRACED LENGTH</b> FR-TO 10.00 4.03 4.11 3.58 4.11 4.03 10.00 5.91 5.91 10.00 10.00 10.00 10.00 10.00 10.00				<b>MAX. UNBRACED LENGTH</b> FR-TO 10.00 4.03 4.11 3.58 4.11 4.03 10.00 5.91 5.91 10.00 10.00 10.00 10.00 10.00 10.00 10.00			
<b>WEBS</b> MAX. FACTORED FORCE (LBS) FR-TO P-C -419/0 C-O -168/0 O-D 0/198 D-N 0/687 N-E -811/0 E-F 0/687 F-G 0/198 G-H -168/0 H-I -419/0 I-J 0/2350 J-K 0/2350 K-H 0/2350				<b>WEBS</b> MAX. FACTORED FORCE (LBS) FR-TO P-C -419/0 C-O -168/0 O-D 0/198 D-N 0/687 N-E -811/0 E-F 0/687 F-G 0/198 G-H -168/0 H-I -419/0 I-J 0/2350 J-K 0/2350 K-H 0/2350			
<b>MAX. FACTORED FORCE (LBS)</b> FR-TO 0.08 (1) 0.07 (1) 0.04 (1) 0.15 (1) 0.32 (1) 0.15 (1) 0.04 (1) 0.07 (1) 0.08 (1) 0.53 (1) 0.53 (1)				<b>MAX. FACTORED FORCE (LBS)</b> FR-TO 0.08 (1) 0.07 (1) 0.04 (1) 0.15 (1) 0.32 (1) 0.15 (1) 0.04 (1) 0.07 (1) 0.08 (1) 0.53 (1) 0.53 (1)			

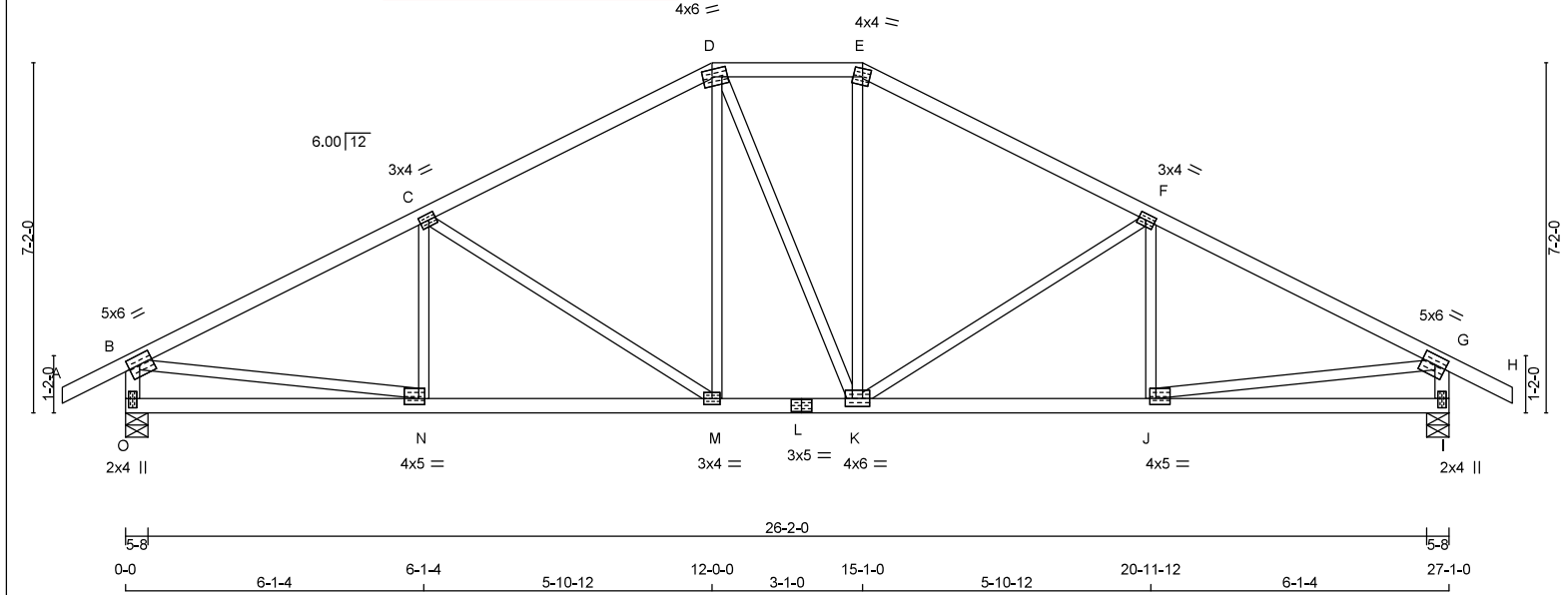


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.







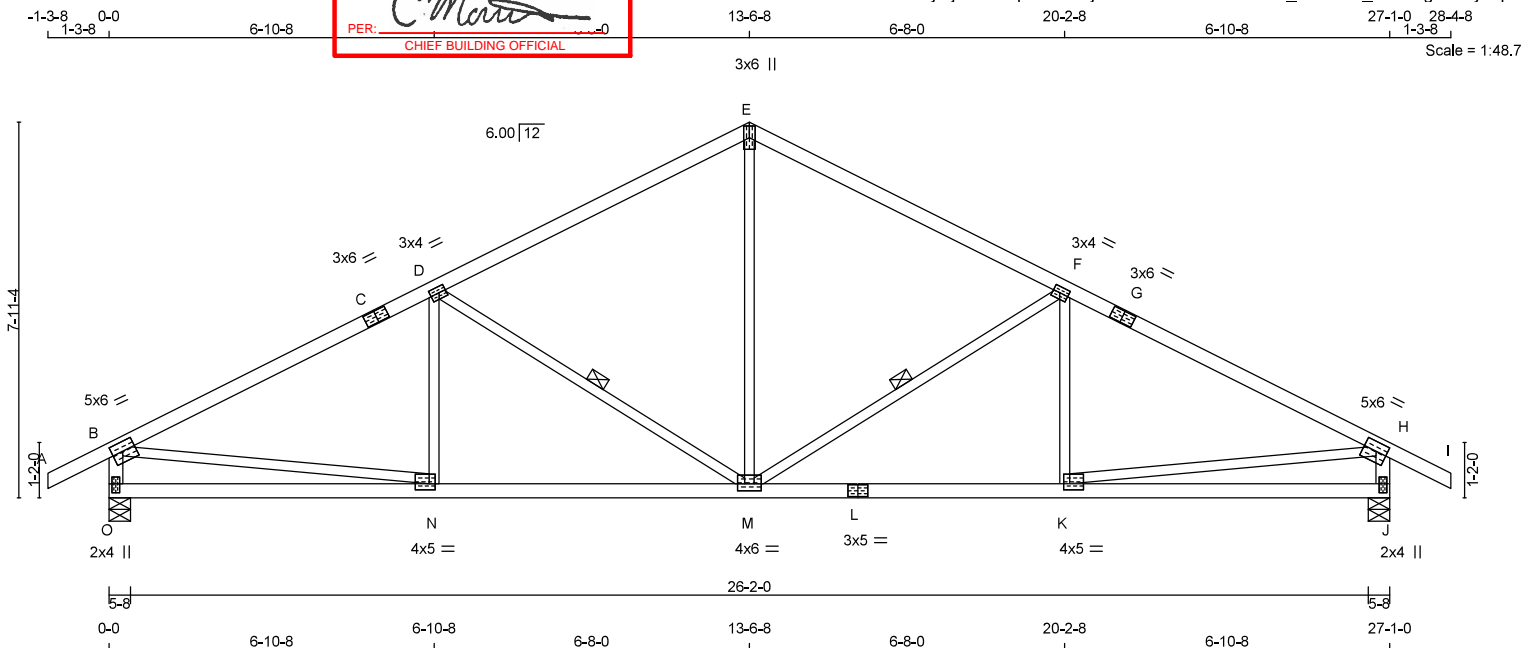


[M][F]

JSI GRIP= 0.89 (B) (INPUT = 0.90 )  
JSI METAL= 0.68 (N) (INPUT = 1.00 )



JOB NAME NE0723-108	TRUSS NAME T04	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS NOV 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO. ID: mC1cVvXUP6XdYyHjzTl55Sq29NHU-ajwL7RViMHv9eMLebHsk_bi1nD2d_ADPMg8ouhywqHf
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TOTAL WEIGHT = 5 X 106 = 531 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
G - I	2x4	DRY	No.2
O - B	2x4	DRY	No.2
J - H	2x4	DRY	No.2
O - L	2x4	DRY	No.2
L - J	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
B	TMWW4	MT20	5.0	6.0	2.25	2.75
C	TS4	MT20	3.0	6.0		
D	TMWW4	MT20	3.0	4.0	1.50	1.75
E	TTW+p	MT20	3.0	6.0		
F	TMWW4	MT20	3.0	4.0	1.50	1.75
G	TS4	MT20	3.0	6.0		
H	TMWW4	MT20	5.0	6.0	2.25	2.75
J	BMV1+p	MT20	2.0	4.0	2.25	1.00
K	BMWW4	MT20	4.0	5.0	1.50	1.50
L	BS4	MT20	3.0	5.0		
M	BMWWWW4	MT20	4.0	6.0	1.75	3.00
N	BMWW4	MT20	4.0	5.0	1.50	1.50
O	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**

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
O	2026	0	2026	0
J	2026	0	2026	0

**UNFACTORED REACTIONS**

JT	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
O	1414	1037 / 0
J	1414	1037 / 0

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF F-M, D-M, DBS = 20'-0". CBF = 109 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)	VERT. LOAD LC1 (PLF)	MAX. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO				FR-TO			
A-B	0 / 36	-119.4	-119.4 0.16 (1)	M-E	0 / 1065	0.24 (1)	
B-C	-2634 / 0	-119.4	-119.4 0.91 (1)	M-F	-870 / 0	0.37 (1)	
C-D	-2634 / 0	-119.4	-119.4 0.91 (1)	K-F	-167 / 76	0.05 (1)	
D-E	-1904 / 0	-119.4	-119.4 0.79 (1)	D-M	-870 / 0	0.37 (1)	
E-F	-1904 / 0	-119.4	-119.4 0.79 (1)	N-D	-167 / 76	0.05 (1)	
F-G	-2634 / 0	-119.4	-119.4 0.91 (1)	B-N	0 / 2413	0.54 (1)	
G-H	-2634 / 0	-119.4	-119.4 0.91 (1)	K-H	0 / 2413	0.54 (1)	
H-I	0 / 36	-119.4	-119.4 0.16 (1)				
O-B	-1973 / 0	0.0	0.0 0.20 (1)				
J-H	-1973 / 0	0.0	0.0 0.20 (1)				
O-N	0 / 0	-18.2	-18.2 0.20 (4)				
N-M	0 / 2394	-18.2	-18.2 0.47 (1)				
M-L	0 / 2394	-18.2	-18.2 0.47 (1)				
L-K	0 / 2394	-18.2	-18.2 0.47 (1)				
K-J	0 / 0	-18.2	-18.2 0.20 (4)				

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.12")  
ALLOWABLE DEFL.(TL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.21")CSI: TC=0.91/0.97 (B-D:1), BC=0.47/0.97 (M-N:1),  
WB=0.54/0.97 (B-N:1), SSI=0.35/1.00 (B-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

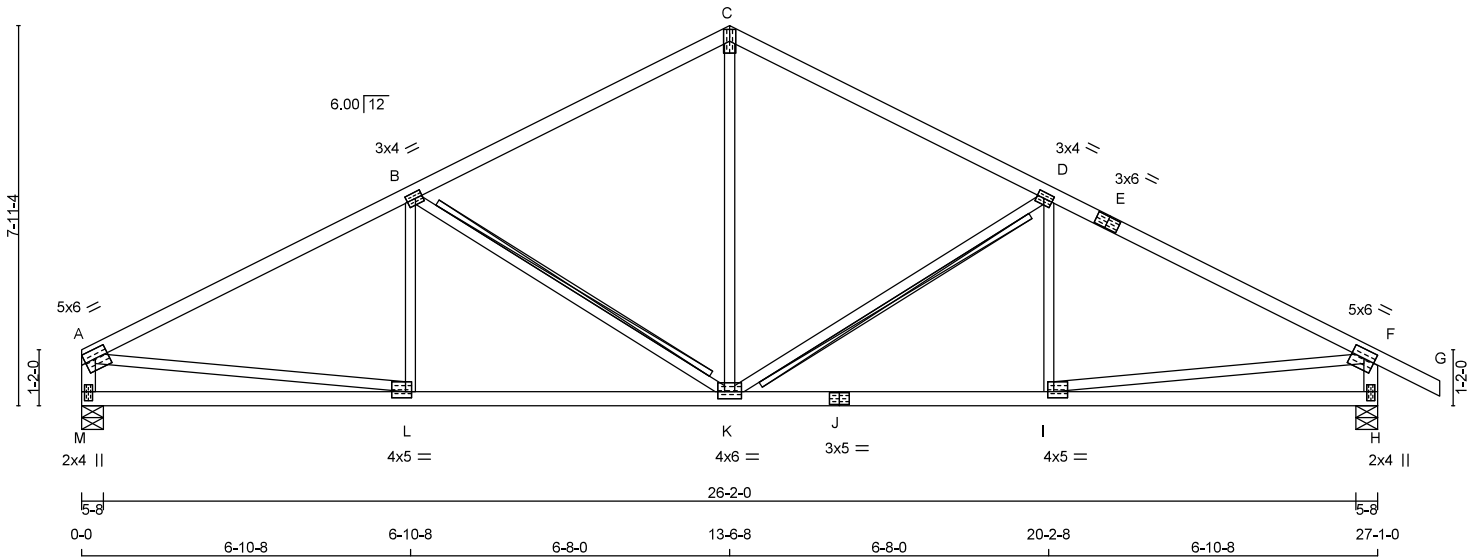
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL = 0.74 (L) (INPUT = 1.00)

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



JOB NAME NE0723-108	TRUSS NAME T05	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY NOV 04 2023 PER: <i>C. M...</i> CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO.
0-0 6-10-8 13-6-8 6-8-0 20-2-8 6-10-8 27-1-0 1-3-8		Scale: 1/4"=1'		



TOTAL WEIGHT = 2 X 105 = 209 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - G	2x4	DRY	No.2
M - A	2x4	DRY	No.2
H - F	2x4	DRY	No.2
M - J	2x4	DRY	No.2
J - H	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
A	TMVW4	MT20	5.0	6.0	2.25	Edge
B	TMVW4	MT20	3.0	4.0	1.50	1.75
C	TTW+p	MT20	3.0	6.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.75
E	TS4	MT20	3.0	6.0		
F	TMVW4	MT20	5.0	6.0	2.25	2.75
H	BMV1+p	MT20	2.0	4.0	2.25	1.00
I	BMVW4	MT20	4.0	5.0	1.50	1.50
J	BS4	MT20	3.0	5.0		
K	BMVW4	MT20	4.0	6.0	1.75	3.00
L	BMVW4	MT20	4.0	5.0	1.50	1.50
M	BMV1+p	MT20	2.0	4.0	2.25	1.00

Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES  
EDGE OF CHORD.**DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING****DESIGNER****BEARINGS**

	FACTORED	MAXIMUM FACTORED	INPUT	REQD
	GROSS REACTION	GROSS REACTION	BRG	BRG
JT	VERT	HORZ	DOWN	HORZ
M	1864	0	1864	0
H	2026	0	2026	0

**UNFACTORED REACTIONS**

JT	1ST CASE	MAX/MIN	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE
M	1303	943 / 0	0 / 0
H	1414	1037 / 0	0 / 0

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.97 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT D-K, B-K

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS  
@ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN  
THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW**LOADING**

TOTAL LOAD CASES: (4)

MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. FACTORED HORIZ. LOAD (LBS)
FR-TO		FROM	TO	CS1 (LC)	UNBRAC LENGTH	FR-TO	
A-B	-2634 / 0	-119.4	-119.4	0.91 (1)	2.97	K-C	0 / 1065
B-C	-1904 / 0	-119.4	-119.4	0.79 (1)	3.65	K-D	-870 / 0
C-D	-1904 / 0	-119.4	-119.4	0.79 (1)	3.65	I-D	-167 / 76
D-E	-2634 / 0	-119.4	-119.4	0.91 (1)	2.97	B-K	-870 / 0
E-F	-2634 / 0	-119.4	-119.4	0.91 (1)	2.97	L-B	-167 / 76
F-G	0 / 36	-119.4	-119.4	0.18 (1)	10.00	A-L	0 / 2413
M-A	-1811 / 0	0.0	0.0	0.18 (1)	6.13	I-F	0 / 2413
H-F	-1973 / 0	0.0	0.0	0.20 (1)	5.92		

M-L	0 / 0	-18.2	-18.2	0.20 (4)	10.00
L-K	0 / 2394	-18.2	-18.2	0.47 (1)	10.00
K-J	0 / 2394	-18.2	-18.2	0.47 (1)	10.00
J-I	0 / 2394	-18.2	-18.2	0.47 (1)	10.00
I-H	0 / 0	-18.2	-18.2	0.20 (4)	10.00

**DESIGN CRITERIA**

SPECIFIED LOADS:  
TOP CH. LL = 34.8 PSF  
DL = 6.0 PSF  
BOT CH. LL = 0.0 PSF  
DL = 7.3 PSF  
TOTAL LOAD = 48.1 PSF

**SPACING = 24.0 IN./C**THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL  
BUILDING REQUIREMENTS OF PART 9, NBCC 2015

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.91/0.97 (A-B:1), BC=0.47/0.97 (K-L:1),  
WB=0.54/0.97 (A-L:1), SSI=0.35/1.00 (A-B:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

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

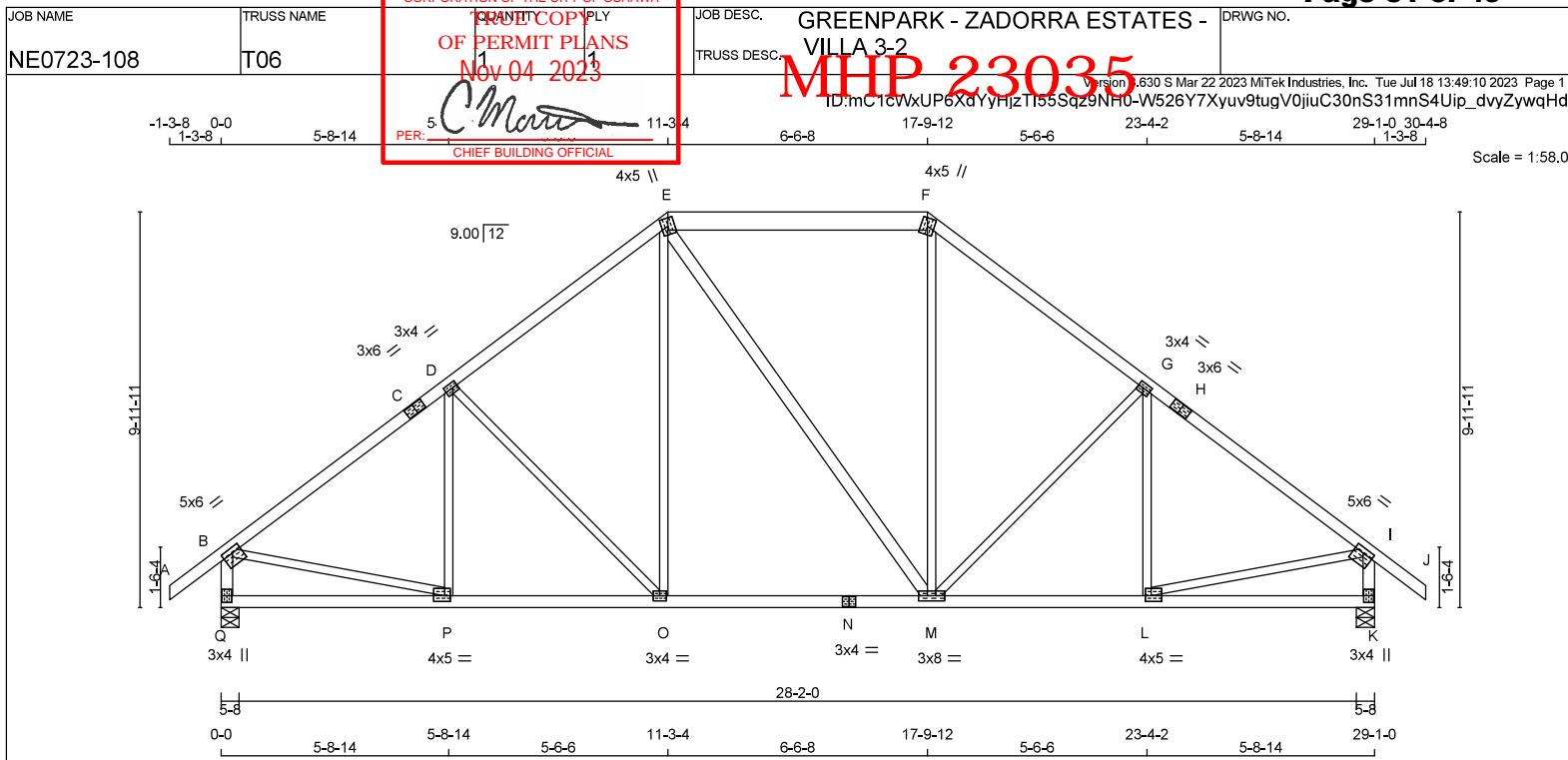
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.89 (A) (INPUT = 0.90)  
JSI METAL = 0.74 (J) (INPUT = 1.00)

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





## LUMBER

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - C	2x4	DRY	No.2
C - E	2x4	DRY	No.2
E - F	2x6	DRY	No.2
F - H	2x4	DRY	No.2
H - J	2x4	DRY	No.2
J - K	2x4	DRY	No.2
K - L	2x4	DRY	No.2
L - M	2x4	DRY	No.2
M - N	2x4	DRY	No.2
N - K	2x4	DRY	No.2
ALL WEBS	2x3	DRY	No.2
EXCEPT			
E - M	2x4	DRY	No.2

DRY: SEASONED LUMBER.

## PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	5.0	6.0	1.50	2.75
C	TS4	MT20	3.0	6.0		
D	TMVW4	MT20	3.0	4.0	1.50	1.50
E	TTWW+m	MT20	4.0	5.0		
F	TTWW+m	MT20	4.0	5.0		
G	TMVW4	MT20	3.0	4.0	1.50	1.50
H	TS4	MT20	3.0	6.0		
I	TMVW4	MT20	5.0	6.0	1.50	2.75
K	BMV1+p	MT20	3.0	4.0		
L	BMVW4	MT20	4.0	5.0	1.75	1.75
M	BMVW4	MT20	3.0	8.0		
N	BS4	MT20	3.0	4.0		
O	BMVW4	MT20	3.0	4.0		
P	BMVW4	MT20	4.0	5.0	1.75	1.75
Q	BMV1+p	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
Q	2167	0	2167	0
K	2167	0	2167	0

## UNFACTORED REACTIONS

	1ST CASE	MAX. MIN. COMPONENT REACTIONS
JT	COMBINED	SNOW
Q	1512	1108 / 0
K	1512	1108 / 0

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

## BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.92 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM	TO	FR-TO		FROM	TO
A-B	0 / 49	-119.4	-119.4 0.16 (1)	10.00	P-D	-261 / 25	0.14 (1)
B-C	-2163 / 0	-119.4	-119.4 0.60 (1)	3.92	D-O	-459 / 0	0.56 (1)
C-D	-2163 / 0	-119.4	-119.4 0.60 (1)	3.92	O-E	0 / 440	0.10 (1)
D-E	-1854 / 0	-119.4	-119.4 0.56 (1)	4.24	E-M	0 / 0	0.00 (1)
E-F	-1442 / 0	-119.4	-119.4 0.33 (1)	5.96	M-F	0 / 441	0.10 (1)
F-G	-1854 / 0	-119.4	-119.4 0.56 (1)	4.24	M-G	-458 / 0	0.56 (1)
G-H	-2162 / 0	-119.4	-119.4 0.60 (1)	3.92	L-G	-263 / 24	0.14 (1)
H-I	-2162 / 0	-119.4	-119.4 0.60 (1)	3.92	B-P	0 / 1806	0.41 (1)
I-J	0 / 49	-119.4	-119.4 0.16 (1)	10.00	L-I	0 / 1806	0.41 (1)
Q-B	-2121 / 0	0.0	0.0 0.22 (1)	5.74			
K-I	-2121 / 0	0.0	0.0 0.22 (1)	5.74			
Q-P	0 / 0	-18.2	-18.2 0.12 (4)	10.00			
P-O	0 / 1769	-18.2	-18.2 0.36 (1)	10.00			
O-N	0 / 1441	-18.2	-18.2 0.31 (1)	10.00			
N-M	0 / 1441	-18.2	-18.2 0.31 (1)	10.00			
M-L	0 / 1768	-18.2	-18.2 0.37 (1)	10.00			
L-K	0 / 0	-18.2	-18.2 0.12 (4)	10.00			

## DESIGN CRITERIA

## SPECIFIED LOADS:

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

## SPACING = 24.0 IN./C/C

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.07")  
ALLOWABLE DEFL.(TL)= L/360 (0.97")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.15")

CSI: TC=0.60/0.97 (B-D:1), BC=0.37/0.97 (L-M:1),  
WB=0.56/0.97 (D-O:1), SSI=0.26/1.00 (G-I:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

## NAIL VALUES

PLATE	GRIP(DRY)	SHEAR	SECTION
(PL)	(PS)	(PL)	(PL)
MAX	MIN	MAX	MIN
MT20	650	371	1747
		788	1987

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (P) (INPUT = 0.90)  
JSI METAL = 0.59 (B) (INPUT = 1.00)

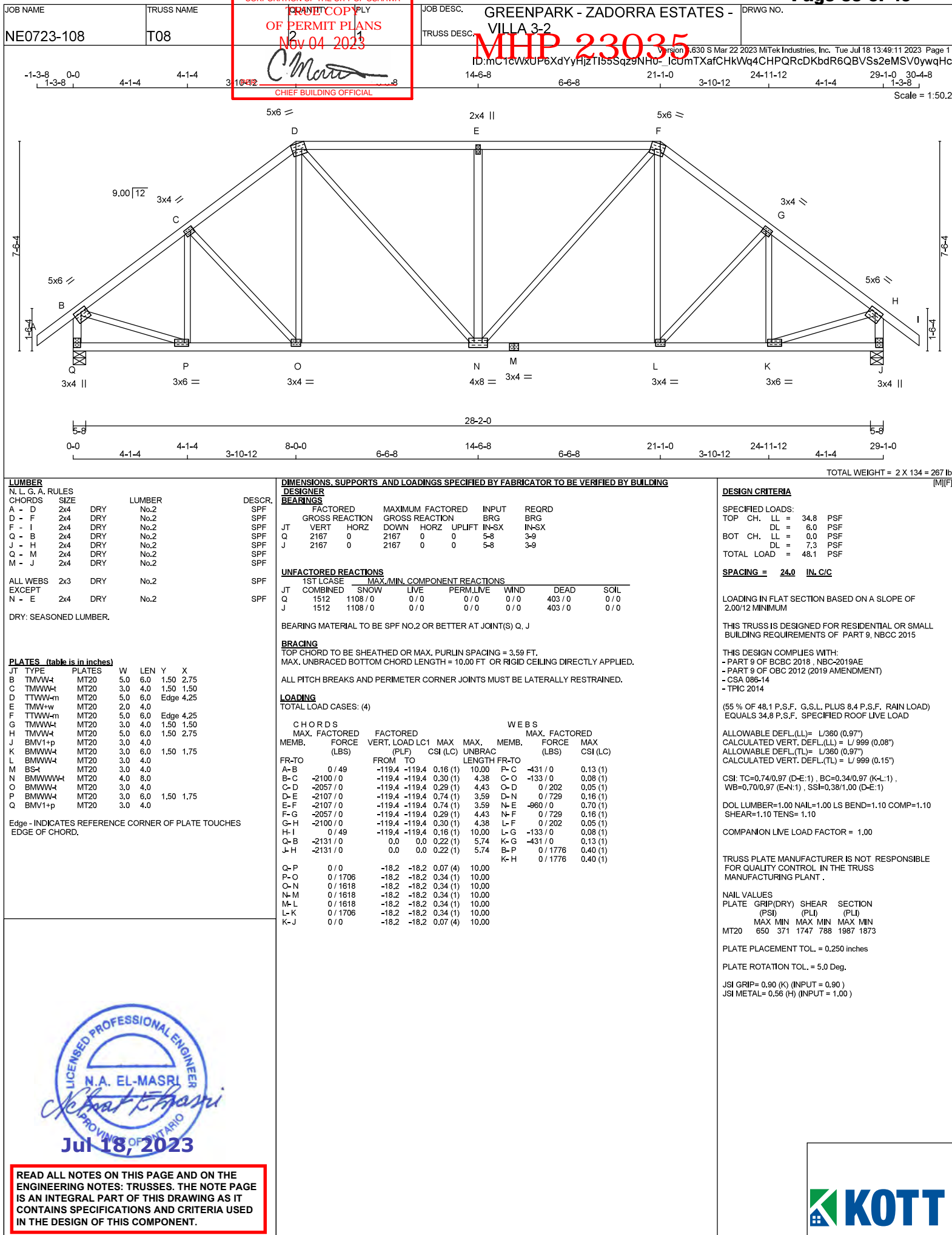


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

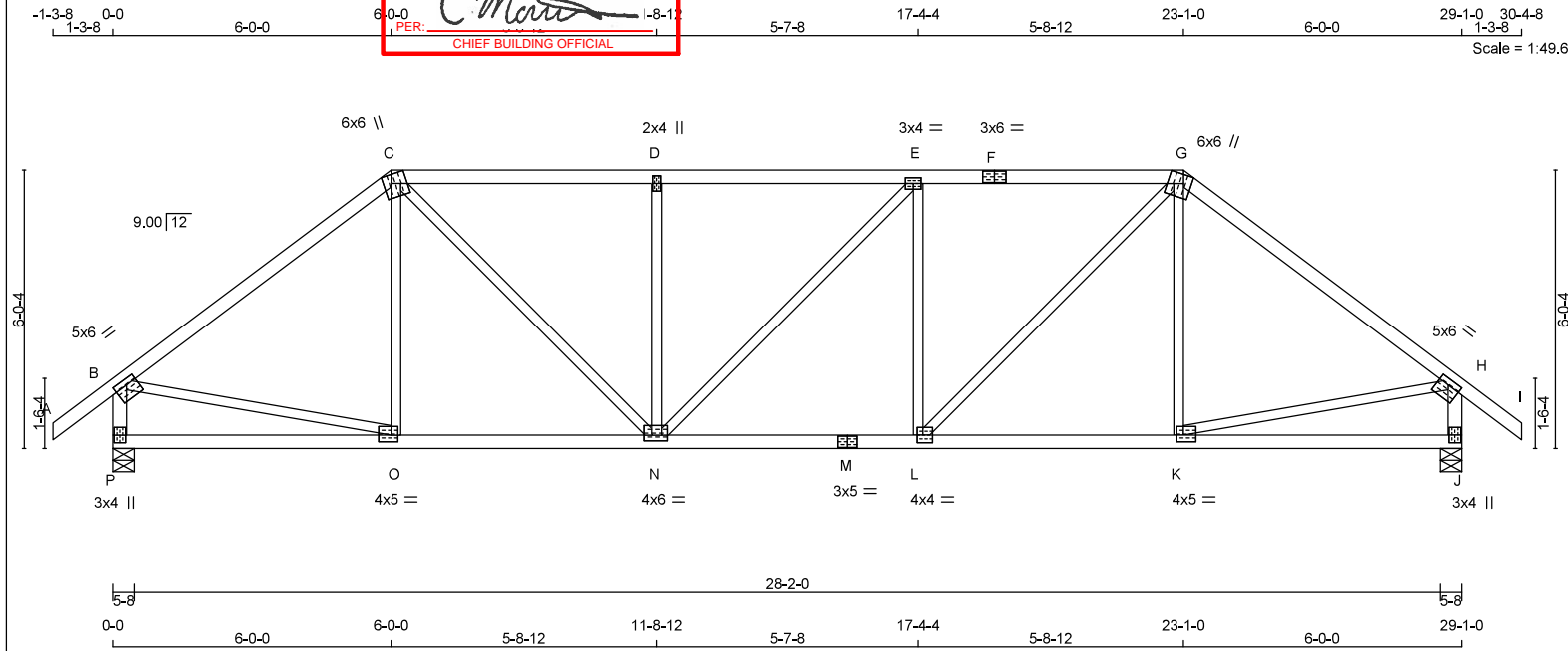




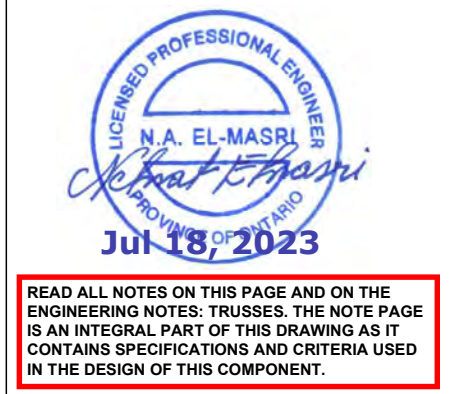




JOB NAME NE0723-108	TRUSS NAME T09	CORPORATION OF THE CITY OF OSHAWA PERMIT COPY OF PERMIT PLANS Nov 04 2023 CHIEF BUILDING OFFICIAL	JOB DESC. GREENPARK - ZADORRA ESTATES - VILLA 3-2	DRWG NO.
PERSON: .630 S Mar 22 2023 MiTek Industries, Inc. Tue Jul 18 13:49:12 2023 Page 1 ID: mC1cvXUP6XdYyHjz1I55Sqz9NH0-SUAszpYQWp7_fPq6xg9RtnyqQow0B?HI601SywqHb				



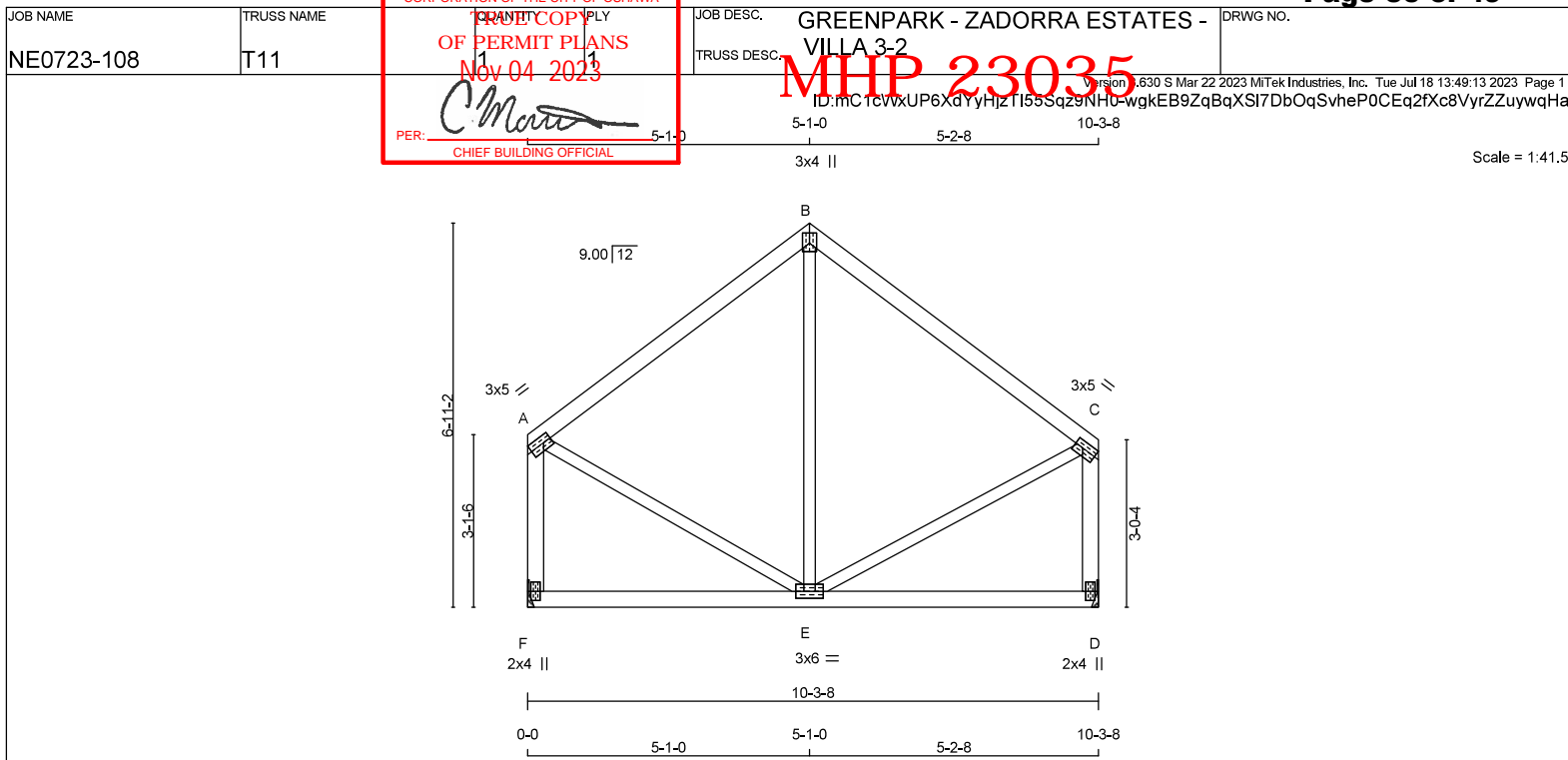
LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES										BEARINGS										SPECIFIED LOADS:									
CHORDS SIZE LUMBER DESCR.										FACTORED MAXIMUM FACTORED INPUT REQD										TOP CH. LL = 34.8 PSF									
A - C 2x4 DRY 2100F 1.8E SPF										GROSS REACTION GROSS REACTION BRG BRG										DL = 6.0 PSF									
C - F 2x4 DRY No.2 SPF										JT VERT HORZ DOWN HORZ UPLIFT IN-SX IN-SX										BOT CH. LL = 0.0 PSF									
F - G 2x4 DRY No.2 SPF										P 2167 0 2167 0 0 5-8 3-9										DL = 7.3 PSF									
G - I 2x4 DRY 2100F 1.8E SPF										J 2167 0 2167 0 0 5-8 3-9										TOTAL LOAD = 48.1 PSF									
P - B 2x4 DRY No.2 SPF										UNFACTORED REACTIONS										SPACING = 24.0 IN./C/C									
J - H 2x4 DRY No.2 SPF										1ST CASE MAX./MIN. COMPONENT REACTIONS																			
P - M 2x4 DRY No.2 SPF										JT COMBINED SNOW LIVE PERM.LIVE WIND DEAD SOIL																			
M - J 2x4 DRY No.2 SPF										P 1512 1108 / 0 0 / 0 0 / 0 403 / 0 0 / 0										LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM									
ALL WEBS 2x3 DRY No.2 SPF										J 1512 1108 / 0 0 / 0 0 / 0 403 / 0 0 / 0										THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
EXCEPT										BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) P, J																			
DRY: SEASONED LUMBER.										BRACING										THIS DESIGN COMPLIES WITH:									
										TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.50 FT.										- PART 9 OF CBC 2018, NBC-2019AE									
										MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.										- PART 9 OF OBC 2012 (2019 AMENDMENT)									
										ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.										- CSA 086-14									
										LOADING										- TPIC 2014									
										TOTAL LOAD CASES: (4)										(55 % OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)									
PLATES (table is in inches)																				EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOAD									
JT TYPE PLATES W LEN Y X										CHORDS										WEBS									
B TMWVH MT20 5.0 6.0 1.50 2.75										MAX. FACTORED FACTORED										MAX. FACTORED									
C TTVMW+m MT20 6.0 6.0 Edge 2.00										MEMB. FORCE VERT. LOAD LC1 MAX										MEMB. FORCE MAX									
D TMW+w MT20 2.0 4.0										(LBS) (PLF) CSI (LC) UNBRAC										(LBS) CSI (LC)									
E TMWVH MT20 3.0 4.0										FR-TO FROM TO LENGTH FR-TO																			
F TS4 MT20 3.0 6.0										A-B 0 / 49 -119.4 -119.4 0.11 (1) 10.00										C-N -205 / 46 0.12 (1)									
G TTVMW+m MT20 6.0 6.0 Edge 2.00										B-C -2110 / 0 -119.4 -119.4 0.60 (1) 4.79										C-N 0 / 1177 0.26 (1)									
H TMWVH MT20 5.0 6.0 1.50 2.75										C-D -2515 / 0 -119.4 -119.4 0.70 (1) 3.50										N-D -735 / 0 0.42 (1)									
J BMV1+p MT20 3.0 4.0										D-E -2515 / 0 -119.4 -119.4 0.70 (1) 3.50										N-E 0 / 0 0.00 (1)									
K BMWVH MT20 4.0 5.0 1.75 1.75										E-F -2517 / 0 -119.4 -119.4 0.70 (1) 3.51										L-E -733 / 0 0.41 (1)									
L BMWVH MT20 4.0 4.0 2.00 1.50										F-G -2517 / 0 -119.4 -119.4 0.70 (1) 3.51										L-G 0 / 1178 0.27 (1)									
M BS4 MT20 3.0 5.0										G-H -2110 / 0 -119.4 -119.4 0.60 (1) 4.79										K-G -207 / 46 0.12 (1)									
N BMWVH MT20 4.0 6.0 1.50 2.00										H-I 0 / 49 -119.4 -119.4 0.11 (1) 10.00										B-O 0 / 1718 0.39 (1)									
O BMWVH MT20 4.0 5.0 1.75 1.75										P-B -2122 / 0 0.0 0.0 0.22 (1) 5.74										K-H 0 / 1717 0.39 (1)									
P BMV1+p MT20 3.0 4.0										J-H -2122 / 0 0.0 0.0 0.22 (1) 5.74																			
Edge - INDICATES REFERENCE CORNER OF PLATE TOUCHES										P-O 0 / 0 -18.2 -18.2 0.16 (4) 10.00										TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE									
EDGE OF CHORD.										O-N 0 / 1682 -18.2 -18.2 0.36 (1) 10.00										FOR QUALITY CONTROL IN THE TRUSS									
										N-M 0 / 2516 -18.2 -18.2 0.46 (1) 10.00										MANUFACTURING PLANT .									
										M-L 0 / 2516 -18.2 -18.2 0.46 (1) 10.00										NAIL VALUES									
										L-K 0 / 1682 -18.2 -18.2 0.36 (1) 10.00										PLATE GRIP(DRY) SHEAR SECTION									
										K-J 0 / 0 -18.2 -18.2 0.16 (4) 10.00										(PSI) (PL) (PL) (PL)									
																				MAX MIN MAX MIN MAX MIN									
																				MT20 650 371 1747 788 1987 1873									
																				PLATE PLACEMENT TOL. = 0.250 inches									
																				PLATE ROTATION TOL. = 5.0 Deg.									
																				JSI GRIP= 0.90 (M) (INPUT = 0.90 )									
																				JSI METAL= 0.77 (M) (INPUT = 1.00 )									



**TOTAL WEIGHT = 113 lb**

JSI GRIP= 0.89 (N) (INPUT = 0.90 )  
JSI METAL= 0.78 (M) (INPUT = 1.00 )





TOTAL WEIGHT = 47 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
F - A	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	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
A	TMVW4	MT20	3.0	5.0	1.50	Edge
B	TTW+p	MT20	3.0	4.0	2.25	1.50
C	TMVW4	MT20	3.0	5.0	1.50	Edge
D	BMV1+p	MT20	2.0	4.0		
E	BMVW4	MT20	3.0	6.0		
F	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**

FACTORED	MAXIMUM FACTORED	INPUT	REQD
GROSS REACTION	GROSS REACTION	BRG	BRG
JT VERT	HORZ	DOWN	HORZ
F	708	0	708
D	708	0	708

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F, D. MINIMUM BEARING LENGTH  
 AT JOINT F = 1-8, JOINT D = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX. MIN. COMPONENT REACTIONS
COMBINED	SNOW	LIVE
F	495	358 / 0
D	495	358 / 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)

CHORDS	MAX. FACTORED	FACTORED	MAX. FACTORED	WEBS	MAX. FACTORED
MEMB.	FORCE (LBS)	VERT. LOAD LC1 (PLF)	MAX. CSI (LC)	MEMB.	FORCE (LBS)
FR-TO		FROM	TO	LENGTH FR-TO	
A-B	-356 / 0	-119.4	-119.4	0.40 (1)	6.25
B-C	-356 / 0	-119.4	-119.4	0.42 (1)	6.25
F-A	-673 / 0	0.0	0.0	0.11 (1)	7.81
D-C	-672 / 0	0.0	0.0	0.11 (1)	7.81
F-E	0 / 0	-18.2	-18.2	0.14 (4)	10.00
E-D	0 / 0	-18.2	-18.2	0.14 (4)	10.00

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.34")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
 ALLOWABLE DEFL.(TL) = L/360 (0.34")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.02")

CSI: TC=0.42/0.97 (B-C:1), BC=0.14/0.97 (E-F:4),  
 WB=0.15/0.97 (B-E:1), SSI=0.19/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

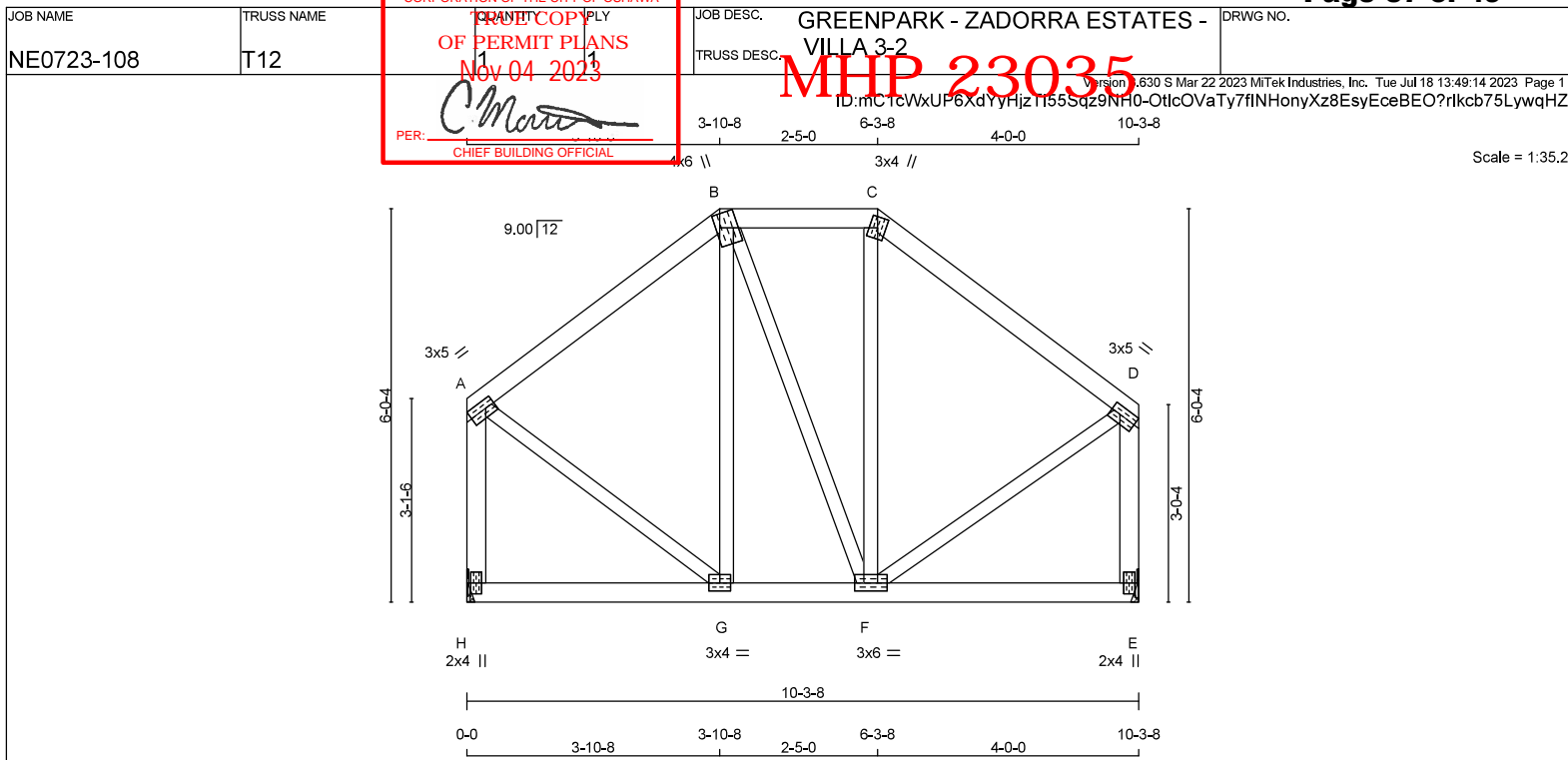
JSI GRIP= 0.56 (E) (INPUT = 0.90)  
 JSI METAL = 0.15 (C) (INPUT = 1.00)



READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE 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

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
C - D	2x4	DRY	No.2
H - A	2x4	DRY	No.2
E - D	2x4	DRY	No.2
H - E	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
A	TMVW-4	MT20	3.0	5.0	1.50	Edge
B	TTVW+m	MT20	4.0	6.0	2.50	0.75
C	TTVW+m	MT20	3.0	4.0		
D	TMVW-4	MT20	3.0	5.0	1.50	Edge
E	BMV1+p	MT20	2.0	4.0		
F	BMVW-4	MT20	3.0	6.0		
G	BMVW-4	MT20	3.0	4.0		
H	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**

	FACTORED		MAXIMUM FACTORED			INPUT	REQD
JT	GROSS REACTION		GROSS REACTION			BRG	BRG
	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
H	708	0	708	0	0	MECHANICAL	
E	708	0	708	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H, E. MINIMUM BEARING LENGTH  
AT JOINT H = 1-8, JOINT E = 1-8.**UNFACTORED REACTIONS**

1ST LCASE		MAX./MIN. COMPONENT REACTIONS					
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
H	495	358 / 0	0 / 0	0 / 0	0 / 0	137 / 0	0 / 0
E	495	358 / 0	0 / 0	0 / 0	0 / 0	137 / 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)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	LC1	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH
FR-TO						FR-TO		
A-B	-384 / 0	-119.4	-119.4	0.23 (1)	6.25	G-B	-152 / 8	0.09 (1)
B-C	-307 / 0	-119.4	-119.4	0.09 (1)	6.25	B-F	0 / 8	0.00 (1)
C-D	-388 / 0	-119.4	-119.4	0.25 (1)	6.25	F-C	-150 / 12	0.08 (1)
H-A	-677 / 0	0.0	0.0	0.12 (1)	7.81	A-G	0 / 374	0.08 (1)
E-D	-676 / 0	0.0	0.0	0.11 (1)	7.81	F-D	0 / 370	0.08 (1)
H-G	0 / 0	-18.2	-18.2	0.06 (4)	10.00			
G-F	0 / 304	-18.2	-18.2	0.08 (1)	10.00			
F-E	0 / 0	-18.2	-18.2	0.06 (4)	10.00			

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	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 2015

THIS DESIGN COMPLIES WITH:

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

(55' OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(LL)= L/999 (0.01")  
ALLOWABLE DEFL.(TL)= L/360 (0.34")  
CALCULATED VERT. DEFL.(TL)= L/999 (0.01")CSI: TC=0.25/0.97 (C-D:1), BC=0.08/0.97 (F-G:1),  
WB=0.09/0.97 (B-G:1), SSI=0.15/1.00 (C-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

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

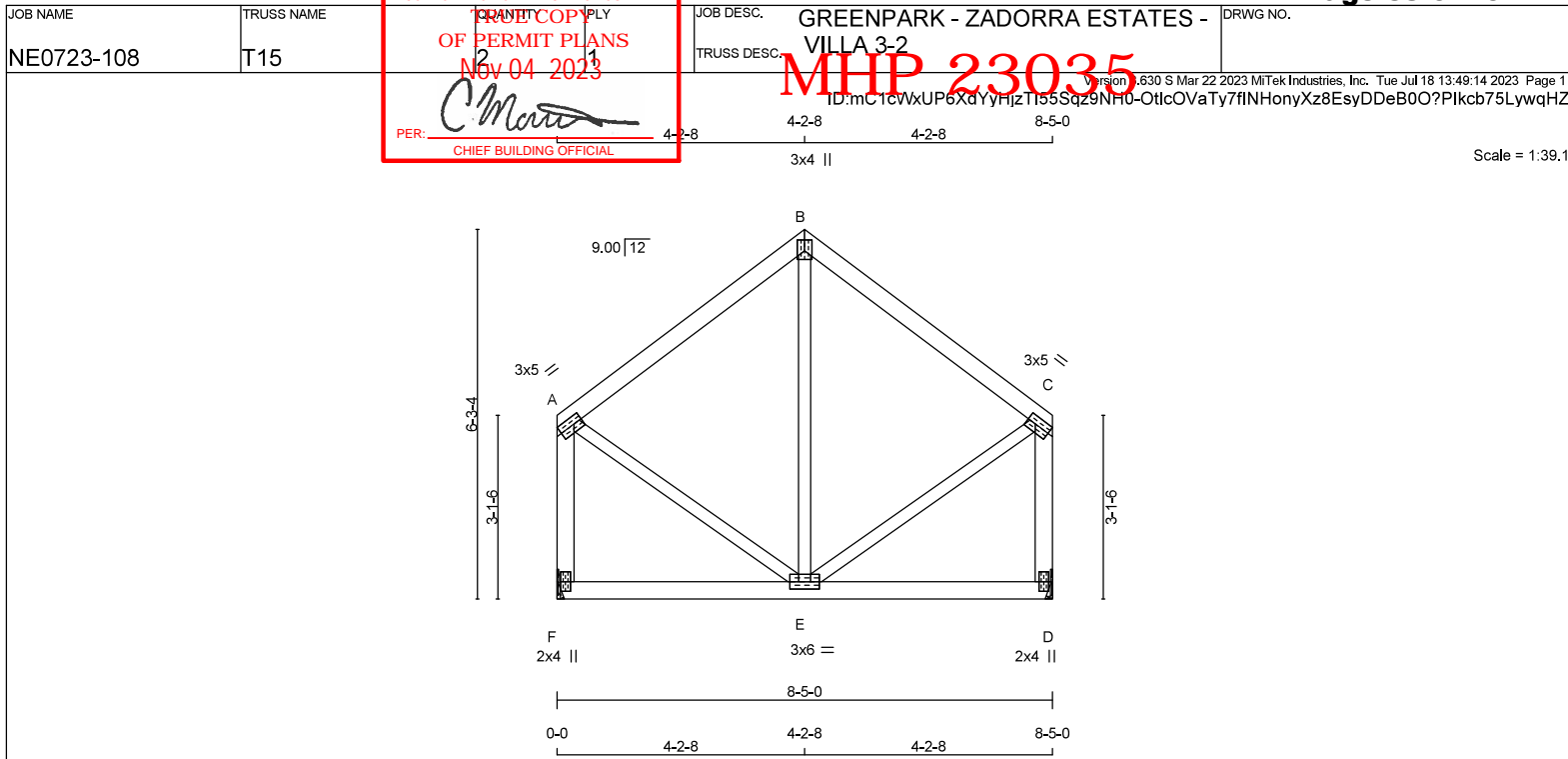
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.69 (A) (INPUT = 0.90)  
JSI METAL = 0.15 (D) (INPUT = 1.00)

READ ALL NOTES ON THIS PAGE AND ON THE  
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
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CONTAINS SPECIFICATIONS AND CRITERIA USED  
IN THE DESIGN OF THIS COMPONENT.





TOTAL WEIGHT = 2 X 40 = 81 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - B	2x4	DRY	No.2
B - C	2x4	DRY	No.2
F - A	2x4	DRY	No.2
D - C	2x4	DRY	No.2
F - D	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
A	TMVW4	MT20	3.0	5.0	1.50	Edge
B	TTW+p	MT20	3.0	4.0	2.25	1.50
C	TMVW4	MT20	3.0	5.0	1.50	Edge
D	BMV1+p	MT20	2.0	4.0		
E	BMVW4	MT20	3.0	6.0		
F	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	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	579	0	579	0	0	MECHANICAL	
D	579	0	579	0	0	MECHANICAL	

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F, D. MINIMUM BEARING LENGTH AT JOINT F = 1-8, JOINT D = 1-8.

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
F	405	293 / 0	0 / 0	0 / 0	0 / 0	112 / 0	0 / 0
D	405	293 / 0	0 / 0	0 / 0	0 / 0	112 / 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	MAX. FACTORED FORCE (LBS)	MAX. FACTORED FORCE (LBS)
FR-TO					
A-B	-264 / 0	-119.4	0.27 (1)	6.25	E-B -186 / 24
B-C	-264 / 0	-119.4	0.27 (1)	6.25	A-E 0 / 253
F-A	-550 / 0	0.0	0.09 (1)	7.81	E-C 0 / 253
D-C	-550 / 0	0.0	0.09 (1)	7.81	
F-E	0 / 0	-18.2	-18.2 0.09 (4)	10.00	
E-D	0 / 0	-18.2	-18.2 0.09 (4)	10.00	

**DESIGN CRITERIA****SPECIFIED LOADS:**

TOP CH. LL	=	34.8	PSF
DL	=	6.0	PSF
BOT CH. LL	=	0.0	PSF
DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.28")

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

ALLOWABLE DEFL.(TL) =  $L/360$  (0.28")

CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.01")

CSI: TC=0.27/0.97 (B-C:1) , BC=0.09/0.97 (D-E:4) , WB=0.11/0.97 (B-E:1) , SSI=0.16/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

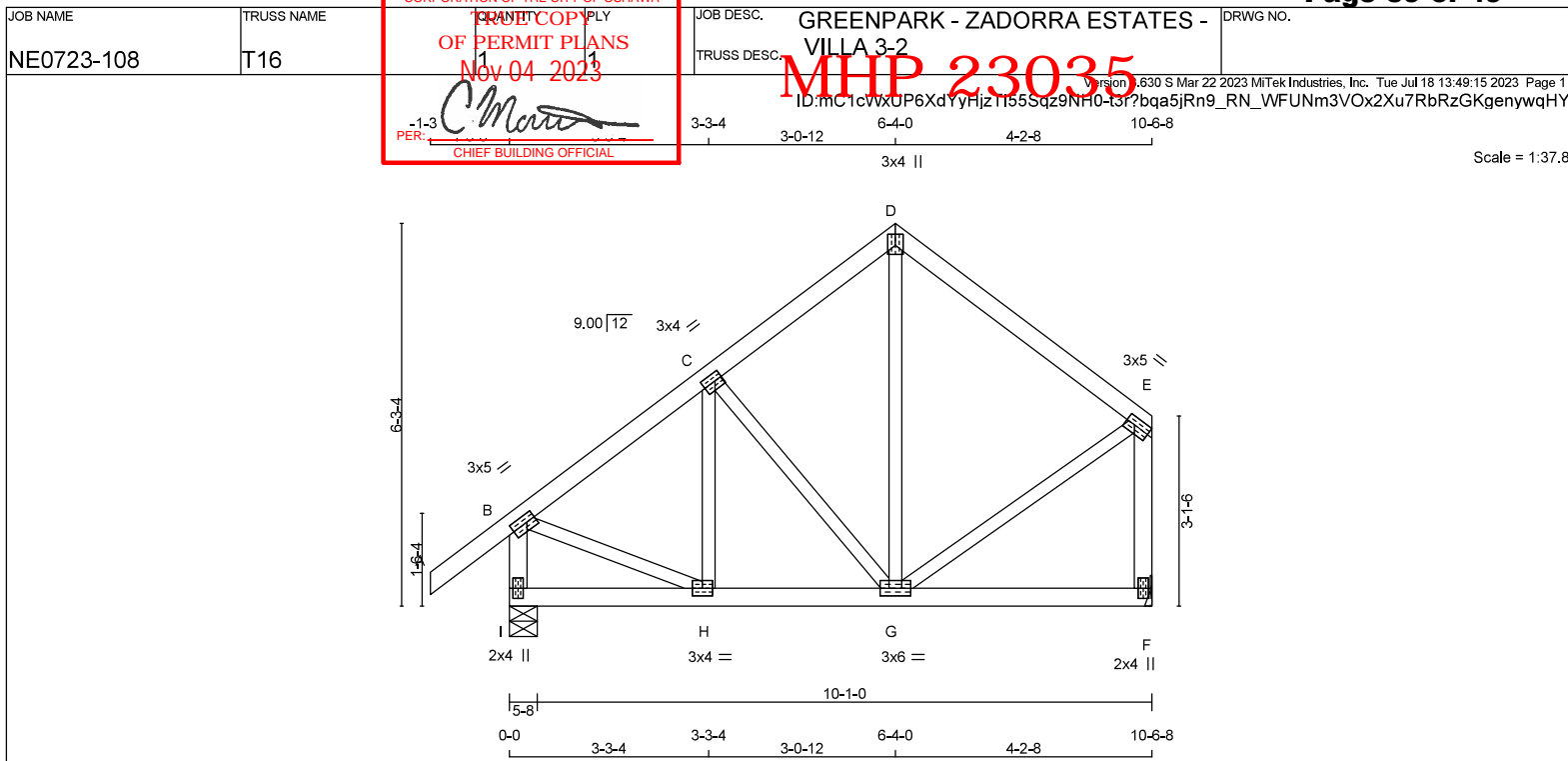
JSI GRIP= 0.45 (C) (INPUT = 0.90)

JSI METAL= 0.12 (C) (INPUT = 1.00)



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





TOTAL WEIGHT = 51 lb

**LUMBER**

N. L. G. A. RULES	CHORDS	SIZE	LUMBER
A - D	2x4	DRY	No.2
D - E	2x4	DRY	No.2
I - B	2x4	DRY	No.2
F - E	2x4	DRY	No.2
I - F	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
B	TMVW4	MT20	3.0	5.0	1.50	1.75
C	TMVW4	MT20	3.0	4.0	1.50	1.50
D	TTV4+p	MT20	3.0	4.0	2.25	1.50
E	TMVW4	MT20	3.0	5.0	1.50	Edge
F	BMV1+p	MT20	2.0	4.0		
G	BMVW4	MT20	3.0	6.0		
H	BMVW4	MT20	3.0	4.0		
I	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
I	890	890	0	5-8
F	726	726	0	MECHANICAL

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F. MINIMUM BEARING LENGTH AT JOINT F = 1-8.

**UNFACTORED REACTIONS**

JT	1ST LOASE	MAX./MIN. COMPONENT REACTIONS	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	620	463 / 0	0 / 0	0 / 0	0 / 0	0 / 0	157 / 0	0 / 0
F	507	367 / 0	0 / 0	0 / 0	0 / 0	0 / 0	140 / 0	0 / 0

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

**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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM TO		FR-TO			
A-B	0 / 49	-119.4 -119.4	0.16 (1)	10.00	H-C	-125 / 16	0.03 (1)
B-C	-587 / 0	-119.4 -119.4	0.15 (1)	6.25	C-G	-275 / 0	0.10 (1)
C-D	-419 / 0	-119.4 -119.4	0.15 (1)	6.25	G-D	0 / 82	0.03 (4)
D-E	-391 / 0	-119.4 -119.4	0.27 (1)	6.25	B-H	0 / 522	0.12 (1)
I-B	-863 / 0	0.0 0.0	0.09 (1)	7.81	G-E	0 / 376	0.08 (1)
F-E	-693 / 0	0.0 0.0	0.12 (1)	7.81			
I-H	0 / 0	-18.2 -18.2	0.04 (4)	10.00			
H-G	0 / 490	-18.2 -18.2	0.11 (1)	10.00			
G-F	0 / 0	-18.2 -18.2	0.07 (4)	10.00			

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 34.8 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.3 PSF  
 TOTAL LOAD = 48.1 PSF

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.35")  
 CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.01")  
 ALLOWABLE DEFL.(TL) =  $L/360$  (0.35")  
 CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.01")

CSI: TC=0.27/0.97 (D-E:1), BC=0.11/0.97 (G-H:1),  
 WB=0.12/0.97 (B-H:1), SSI=0.16/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.80 (B) (INPUT = 0.90)  
 JSI METAL= 0.23 (B) (INPUT = 1.00)



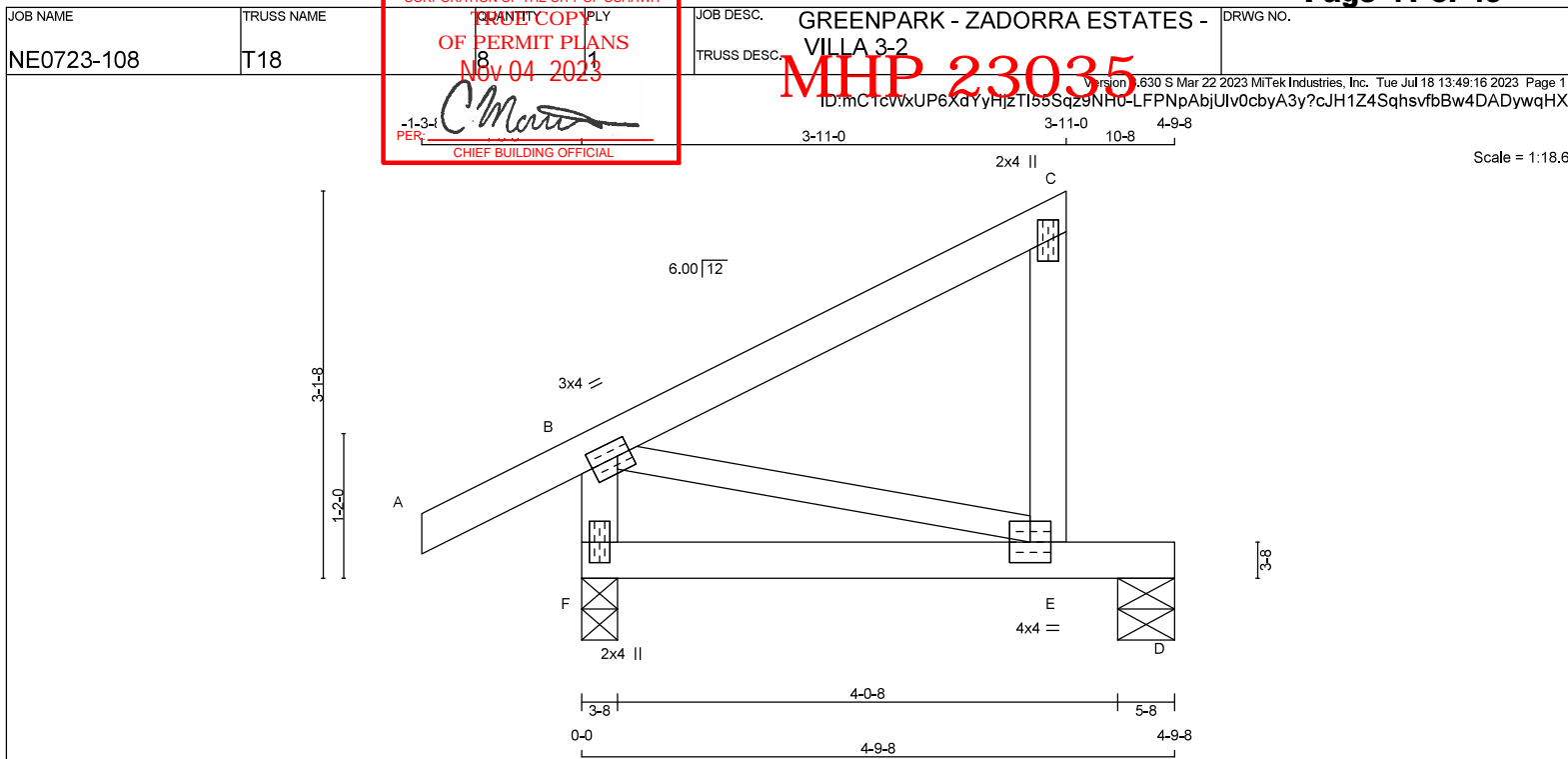
READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
 IS AN INTEGRAL PART OF THIS DRAWING AS IT  
 CONTAINS SPECIFICATIONS AND CRITERIA USED  
 IN THE DESIGN OF THIS COMPONENT.



TOTAL WEIGHT = 18 lb

JSI GRIP= 0.29 (B) (INPUT = 0.90 )  
JSI METAL= 0.24 (B) (INPUT = 1.00 )





**LUMBER**

N. L. G. A. RULES

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

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

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	4.0	1.50	1.25
C	TMV+p	MT20	2.0	4.0		
E	BMVW4	MT20	4.0	4.0		
F	BMV1+p	MT20	2.0	4.0		

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

**DESIGNER**

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
F	482	0	482	0	0	3-8	1-8
D	235	0	235	0	0	5-8	1-8

**UNFACTORED REACTIONS**

JT	COMBINED	SNOW	LIVE	PERM. LIVE	WIND	DEAD	SOIL
F	335	256 / 0	0 / 0	0 / 0	0 / 0	79 / 0	0 / 0
D	166	111 / 0	0 / 0	0 / 0	0 / 0	54 / 0	0 / 0

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

**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 (PLF)	MAX. LC1 (LC)	MAX. UNBRACED LENGTH	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. LC1 (LC)
FR-TO		FROM	TO		FR-TO		
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	B-E	0 / 0
B-C	0 / 0	-119.4	-119.4	0.31 (1)	10.00		
E-C	-234 / 0	0.0	0.0	0.04 (1)	7.81		
F-B	-396 / 0	0.0	0.0	0.04 (1)	7.81		
F-E	0 / 0	-18.2	-18.2	0.27 (1)	10.00		
E-D	0 / 0	-18.2	-18.2	0.27 (1)	10.00		

**DESIGN CRITERIA**

**SPECIFIED LOADS:**

TOP CH.	LL	=	34.8	PSF
	DL	=	6.0	PSF
BOT CH.	LL	=	0.0	PSF
	DL	=	7.3	PSF
TOTAL LOAD	=	48.1	PSF	

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/702 (0.08")

CSI: TC=0.31/0.97 (B-C:1) , BC=0.27/0.97 (E-F:1) ,  
WB=0.00/0.97 (B-E:1) , SSI=0.18/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

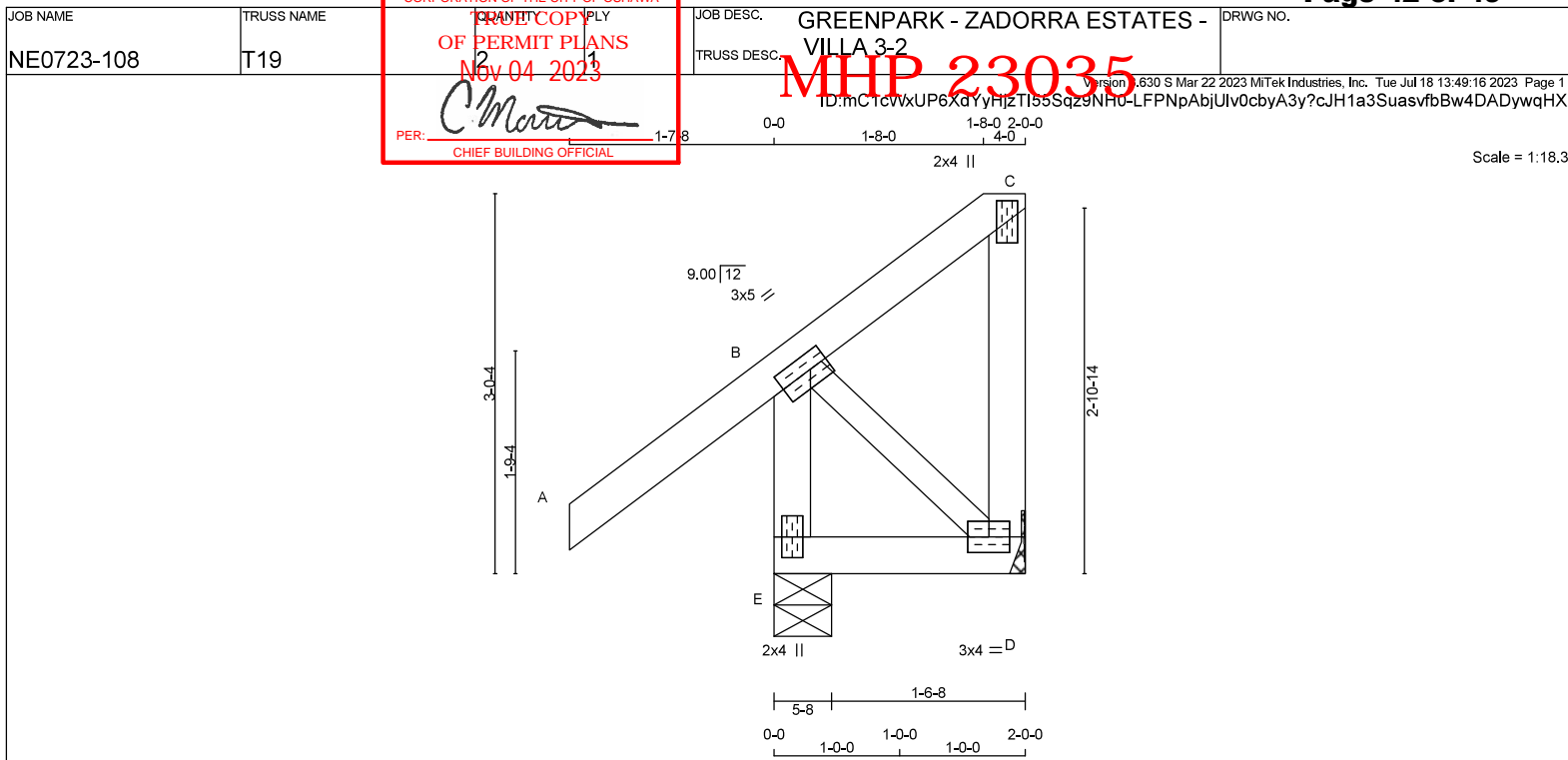
PLATE	GRIP(DRY)	SHEAR (PSI)	SECTION (PLI)
MT20	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.35 (B) (INPUT = 0.90 )  
JSI METAL= 0.10 (C) (INPUT = 1.00 )



**LUMBER**

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

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

DESCR.  
 SPF  
 SPF  
 SPF  
 SPF  
 SPF

**PLATES (table is in inches)**

JT	TYPE	PLATES	W	LEN	Y	X
B	TMVW4	MT20	3.0	5.0	1.50	1.75
C	TMV+p	MT20	2.0	4.0		
D	BMVW1-t	MT20	3.0	4.0		
E	BMV1+p	MT20	2.0	4.0		

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

JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX
D	50	0	50	0	-64	MECHANICAL	
E	430	0	430	0	0	5-8	1-8

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-8.

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

**UNFACTORED REACTIONS**

JT	1ST LCASE	MAX./MIN.	COMPONENT REACTIONS
D	36	19 / -51	0 / 0
E	296	240 / 0	0 / 0

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 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.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)	MAX. FACTORED VERT. LOAD (PLF)
FR-TO							
A-B	0 / 61	-119.4	-119.4	0.25 (1)	10.00		
B-C	-53 / 0	-119.4	-119.4	0.24 (1)	6.25		
D-C	-32 / 77	0.0	0.0	0.01 (5)	7.81		
E-B	-412 / 0	0.0	0.0	0.04 (1)	7.81		
E-D	0 / 0	-18.2	-18.2	0.02 (4)	10.00		

CANTILEVER ANALYSIS HAS BEEN CONSIDERED IN THIS DESIGN

PATTERN-LOADING CHECK APPLIED TO THIS TRUSS.

**DESIGN CRITERIA**

SPECIFIED LOADS:  
 TOP CH. LL = 34.8 PSF  
 DL = 6.0 PSF  
 BOT CH. LL = 0.0 PSF  
 DL = 7.3 PSF  
 TOTAL LOAD = 48.1 PSF

**SPACING = 24.0 IN. C/C**

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.25/0.97 (A-B:1) , BC=0.02/0.97 (D-E:4) ,  
 WB=0.00/0.97 (B-D:1) , SSI=0.13/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE RIGHT HEEL ONLY

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	650	371	1747

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.33 (B) (INPUT = 0.90)  
 JSI METAL = 0.09 (E) (INPUT = 1.00)

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

