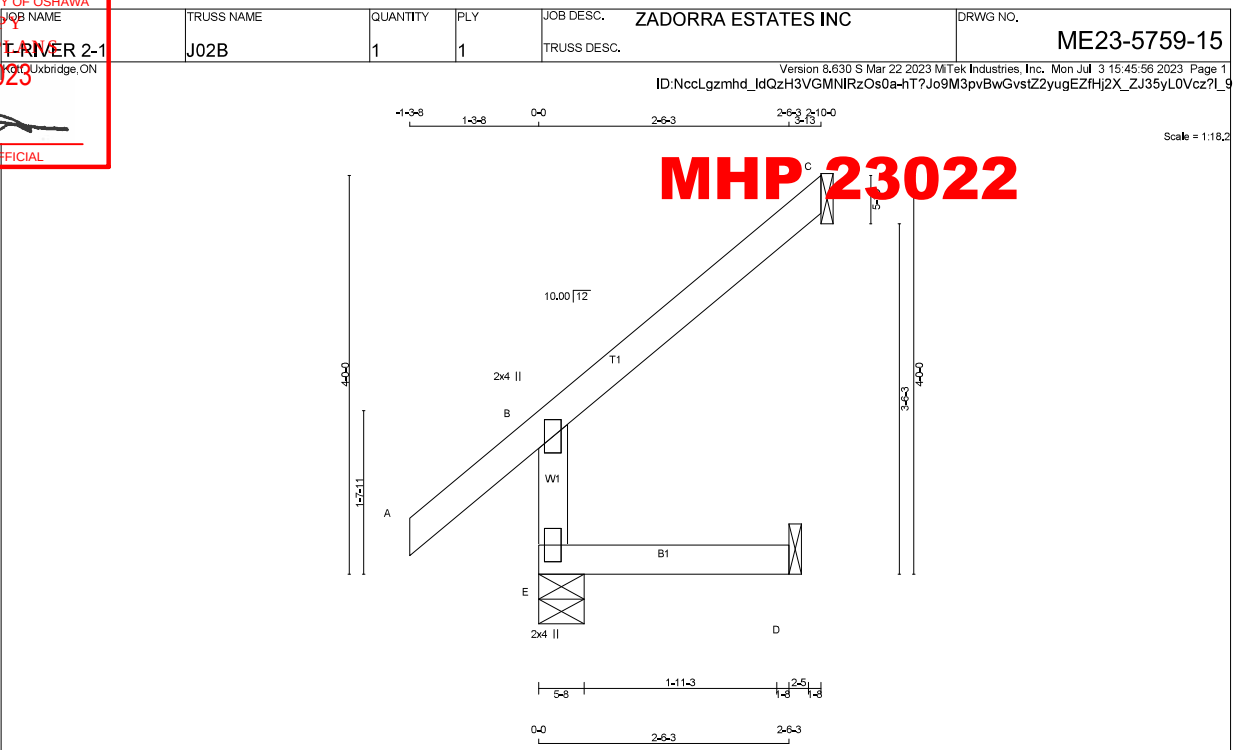


CORPORATION OF THE CITY OF OSHAWA
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Nov 23 2023
PER: 
CHIEF BUILDING OFFICIAL



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	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	FACTORED GROSS REACTION DOWN	MAXIMUM FACTORED GROSS REACTION DOWN	FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	402	402	0	5-8	1-8
C	127	127	0	1-8	1-8
D	21	23	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	278	220 / 0	0 / 0	0 / 0	0 / 0	58 / 0	0 / 0
C	87	74 / 0	0 / 0	0 / 0	0 / 0	13 / 0	0 / 0
D	17	0 / 0	0 / 0	0 / 0	0 / 0	17 / 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: (7)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. UNBRACED LENGTH (FT)	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED MAX. UNBRACED LENGTH (FT)	
FR-TO		FROM	TO	FR-TO			
E-B	-377 / 0	0.0	0.0	0.01 (4)	7.81		
A-B	0 / 53	-119.4	-119.4	0.16 (1)	10.00		
B-C	-27 / 0	-119.4	-119.4	0.16 (6)	6.25		
E-D	0 / 0	-18.2	-18.2	0.03 (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 = 240 IN. G/C

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

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=0.16/1.00 (A-B 1), BC=0.03/1.00 (D-E 4), WB=0.00/1.00 (n/a 0), SSI=0.13/1.00 (B-C 6)

DOL LUMBER=1.00 NAIL=1.00 LBS DE=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)	(PU)
MT20	650	371	1747	788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.26 (B) (INPUT = 0.90)
JSI METAL= 0.20 (B) (INPUT = 1.00)

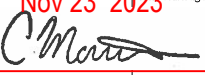
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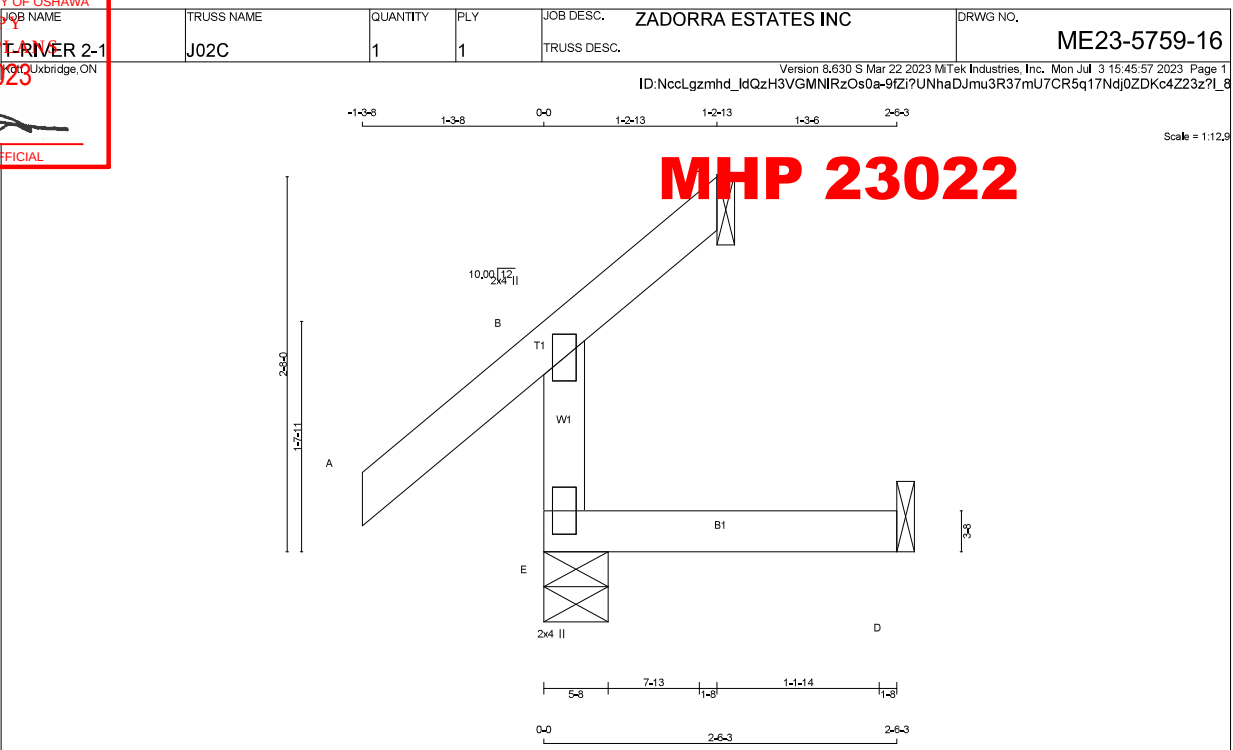


REVIEW FOR TRUSS COMPONENT ONLY
NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.
Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult
TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



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CHIEF BUILDING OFFICIAL



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

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	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	FACTORED GROSS REACTION VERT	MAXIMUM FACTORED GROSS REACTION DOWN	FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	345	0	0	5-8	1-8
C	0	4	0	1-8	1-8
D	13	0	0	1-8	1-8

SEE MITEK STANDARD DETAIL, MSD2015-H FOR CONNECTION TO JOINT(S) C, D
PROVIDE ANCHORAGE AT BEARING JOINT C FOR 150 LBS. FACTORED UPLIFT

UNFACTORED REACTIONS

JT	1ST LCASE COMBINED	MAX./MIN. SNOW	MIN. LIVE	PERM. LIVE	WIND	DEAD	SOIL
E	238	189 / 0	0 / 0	0 / 0	0 / 0	49 / 0	0 / 0
C	0	0 / -43	0 / 0	0 / 0	0 / 0	3 / 0	0 / 0
D	12	0 / -5	0 / 0	0 / 0	0 / 0	16 / 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. UNBRACED LENGTH (FT)	WEBS MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (FT)
E-B	-313 / 0	0.0	0.04 (5)	7.81	
A-B	0 / 53	-119.4	0.16 (1)	10.00	
B-C	-47 / 0	-119.4	0.12 (1)	6.25	
E-D	0 / 0	-18.2	0.04 (5)	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. G/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=0.16/1.00 (A-B 1), BC=0.04/1.00 (D-E 5), WB=0.00/1.00 (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

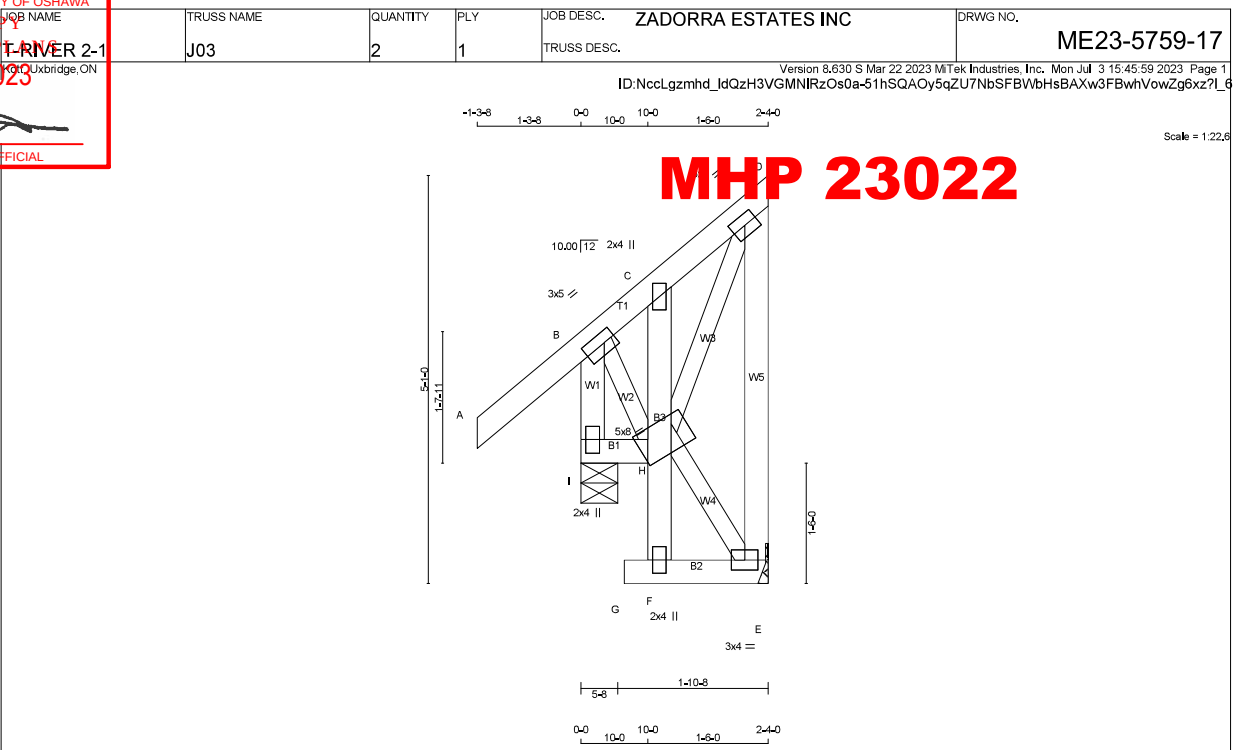
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.
NAIL VALUES
PLATE GRIP (DRY) SHEAR SECTION (PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN
MT20 650 371 1747 788 1987 1873
PLATE PLACEMENT TOL. = 0.250 inches
PLATE ROTATION TOL. = 5.0 Deg.
JSI GRIP= 0.21 (B) (INPUT = 0.90)
JSI METAL= 0.17 (B) (INPUT = 1.00)

MODULUS ENGINEERING LTD.



REVIEW FOR TRUSS COMPONENT ONLY
NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

CORPORATION OF THE CITY OF OSHAWA
TRUE COPY
OF PERMIT PLANS
Nov 23 2023
PER: *C. Morris*
CHIEF BUILDING OFFICIAL



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.

I - B	2x4	DRY	No.2	SPF
A - D	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF
I - H	2x4	DRY	No.2	SPF
F - C	2x4	DRY	No.2	SPF
G - E	2x4	DRY	No.2	SPF

ALL WEBS 2x3 DRY
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	TMV+p	MT20	2.0	4.0		
D	TMVW4	MT20	3.0	4.0		
E	BMVW1-i	MT20	3.0	4.0		
F	BMV+p	MT20	2.0	4.0		
G	BMVWW4-y	MT20	5.0	8.0	1.50	1.75
H	BMV1+p	MT20	2.0	4.0		

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

BEARINGS

	FACTORED	MAXIMUM FACTORED	INPUT	REQRD
JT	GROSS REACTION	GROSS REACTION	BRG	BRG
I	380 0	380 0	0	5-8 1-8
E	115 0	158 0	-19	MECHANICAL

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

UNFACTORED REACTIONS

JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
I	263	206 / 0	0 / 0	0 / 0	0 / 0	56 / 0	0 / 0
E	81	81 / -29	0 / 0	0 / 0	0 / 0	29 / 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 = 7.81 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING
TOTAL LOAD CASES: (7)

CHORDS	MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. UNBRACED LENGTH (LC)	W E B S	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH (LC)
FR-TO								
I-B	-371 / 0	0.0	0.0	0.04 (1)	7.81	B-H	-57 / 82	0.02 (6)
A-B	0 / 53	-119.4	-119.4	0.16 (1)	10.00	H-E	-7 / 4	0.00 (6)
B-C	-87 / 0	-119.4	-119.4	0.16 (1)	6.25	H-D	-68 / 102	0.02 (6)
C-D	-56 / 40	-119.4	-119.4	0.04 (1)	6.25			
E-D	-140 / 25	0.0	0.0	0.06 (6)	7.81			
I-H	0 / 0	-18.2	-18.2	0.01 (4)	10.00			
F-H	0 / 23	0.0	0.0	0.01 (6)	10.00			
H-C	-137 / 133	0.0	0.0	0.03 (7)	7.81			
G-F	0 / 0	-18.2	-18.2	0.00 (4)	10.00			
F-E	-3 / 5	-18.2	-18.2	0.01 (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. G.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=0.16/1.00 (A-B:1) BC=0.03/1.00 (C-H:7) ,
WB=0.02/1.00 (D-H:6) , SS=0.11/1.00 (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) (PU)
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.

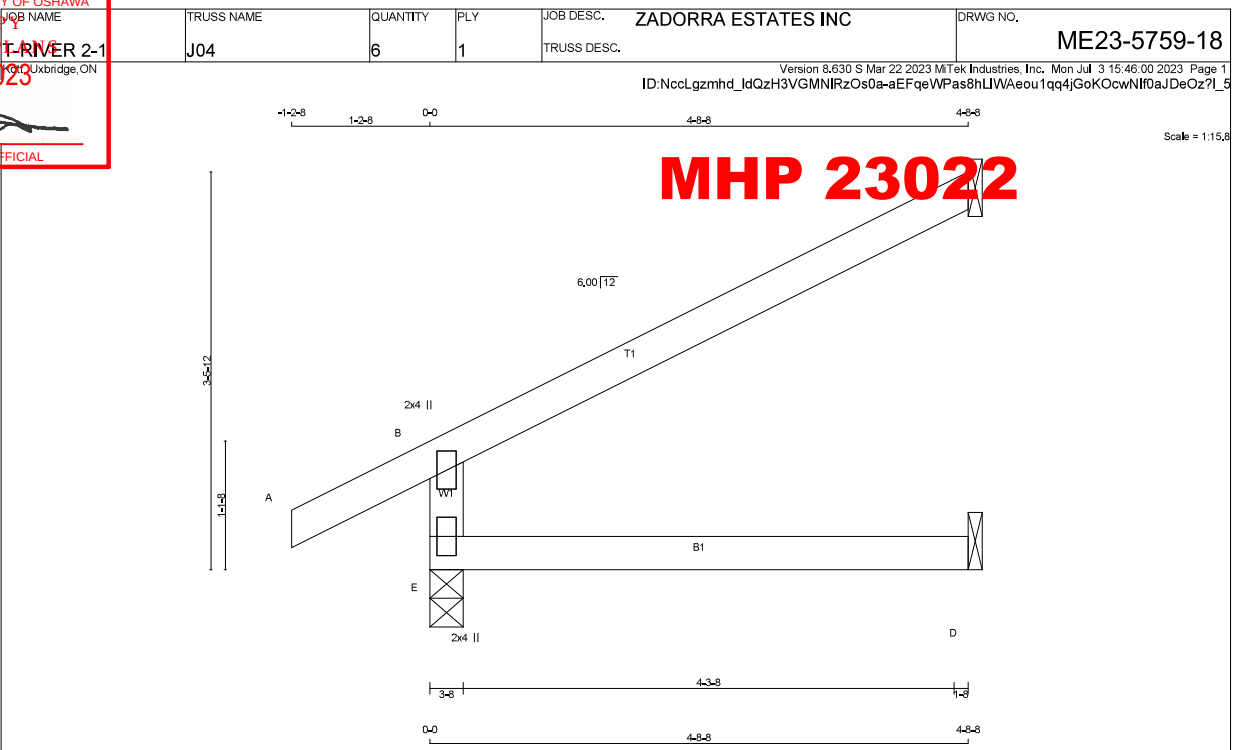
JSI GRIP= 0.31 (B) (INPUT = 0.90)
JSI METAL= 0.08 (I) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

CORPORATION OF THE CITY OF OSHAWA
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PER:
CHIEF BUILDING OFFICIAL



LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF

E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	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	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG IN-SX	REQRD BRG IN-SX
E	553	553	0	1-8
C	211	211	0	1-8
D	36	40	0	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	384	293 / 0	0 / 0	0 / 0	0 / 0	91 / 0	0 / 0
C	144	123 / 0	0 / 0	0 / 0	0 / 0	21 / 0	0 / 0
D	29	0 / 0	0 / 0	0 / 0	0 / 0	29 / 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: (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			
E-B	-503 / 0	0.0	0.0	0.08 (4)	7.81		
A-B	0 / 34	-119.4	-119.4	0.14 (1)	10.00		
B-C	-31 / 0	-119.4	-119.4	0.45 (1)	6.25		
E-D	0 / 0	-18.2	-18.2	0.08 (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 = 240 IN. G/C

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

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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 (0.01")

CSI: TC=0.45/1.00 (B-C:1) , BC=0.08/1.00 (D-E:4) ,
WB=0.00/1.00 (n/a:0) , SSI=0.25/1.00 (B-C:1)

DOL LUMBER=1.00 NAIL=1.00 LBS 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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.28 (B) (INPUT = 0.90)
JSI METAL= 0.21 (B) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

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TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



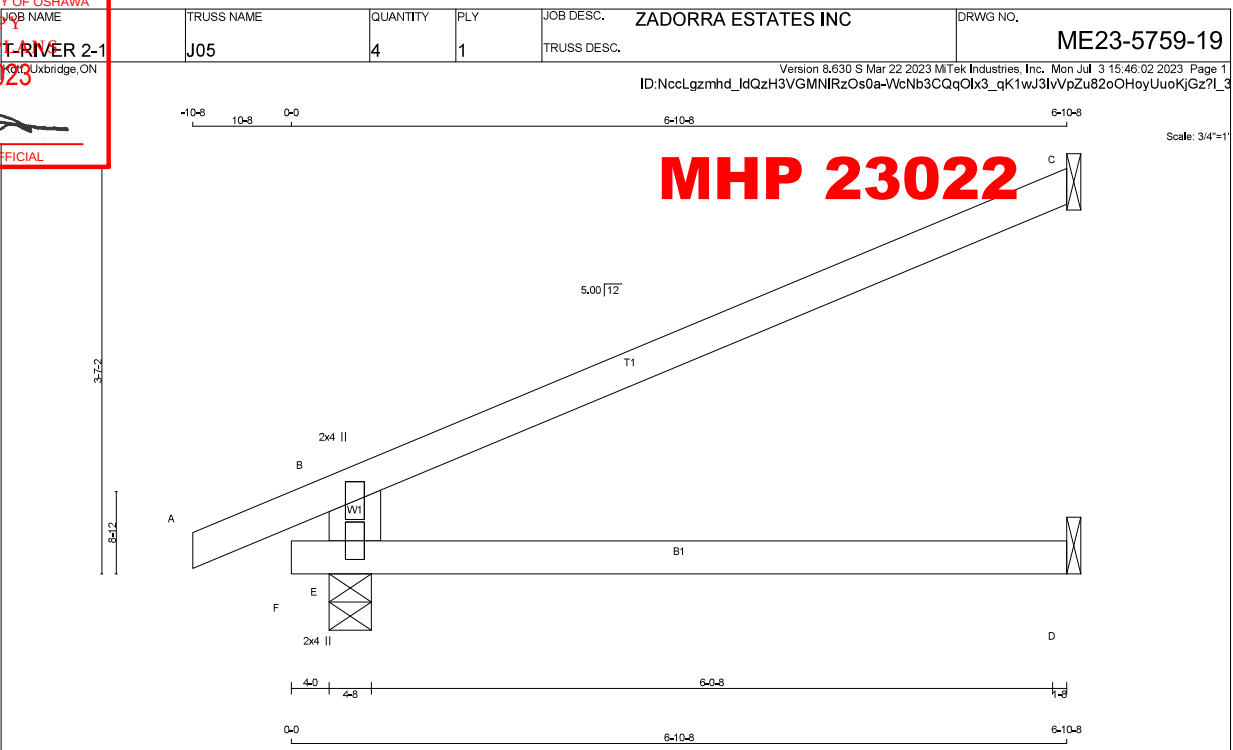
CORPORATION OF THE CITY OF OSHAWA

TRUE COPY OF PERMIT PLANS

Nov 23 2023

PER: 

CHIEF BUILDING OFFICIAL



LUMBER										DIMENSIONS, SUPPORTS & LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																				TOTAL WEIGHT = 4 X 16 = 64									
CHORDS SIZE																				SPECIFIED LOADS:									
E - B 2x6 DRY No.2																				TOP CH. LL = 34.8 PSF									
A - C 2x4 DRY No.2																				DL = 6.0 PSF									
F - D 2x4 DRY No.2																				BOT CH. LL = 0.0 PSF									
																				DL = 7.3 PSF									
																				TOTAL LOAD = 48.1 PSF									
DRY: SEASONED LUMBER.																				SPACING = 24.0 IN. C/C									
																				THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015									
PLATES (table is in inches)																				THIS DESIGN COMPLIES WITH:									
JT TYPE PLATES W LEN Y X																				- PART 9 OF CBC 2018, NBC-2019AE									
B TMV+p MT20 2.0 4.0																				- PART 9 OF OBC 2012 (2019 AMENDMENT)									
E BMV1+p MT20 2.0 4.0																				- 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/960 (0.22")									
																				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.03")									
																				CANTILEVER DEFLECTION:									
																				ALLOWABLE DEFL.(TL)= L/120 (0.19")									
																				CALCULATED VERT. DEFL.(TL) = L/ 999 (0.00")									
																				CSI: TC=0.67/1.00 (B-C-1), BC=0.23/1.00 (D-E-4), WB=0.00/1.00 (n/a/0), SSI=0.35/1.00 (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) (PSI) (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= 0.35 (B) (INPUT = 0.90)									
																				JSI METAL= 0.23 (B) (INPUT = 1.00)									

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07/04/2023

D. A. SHERMAN

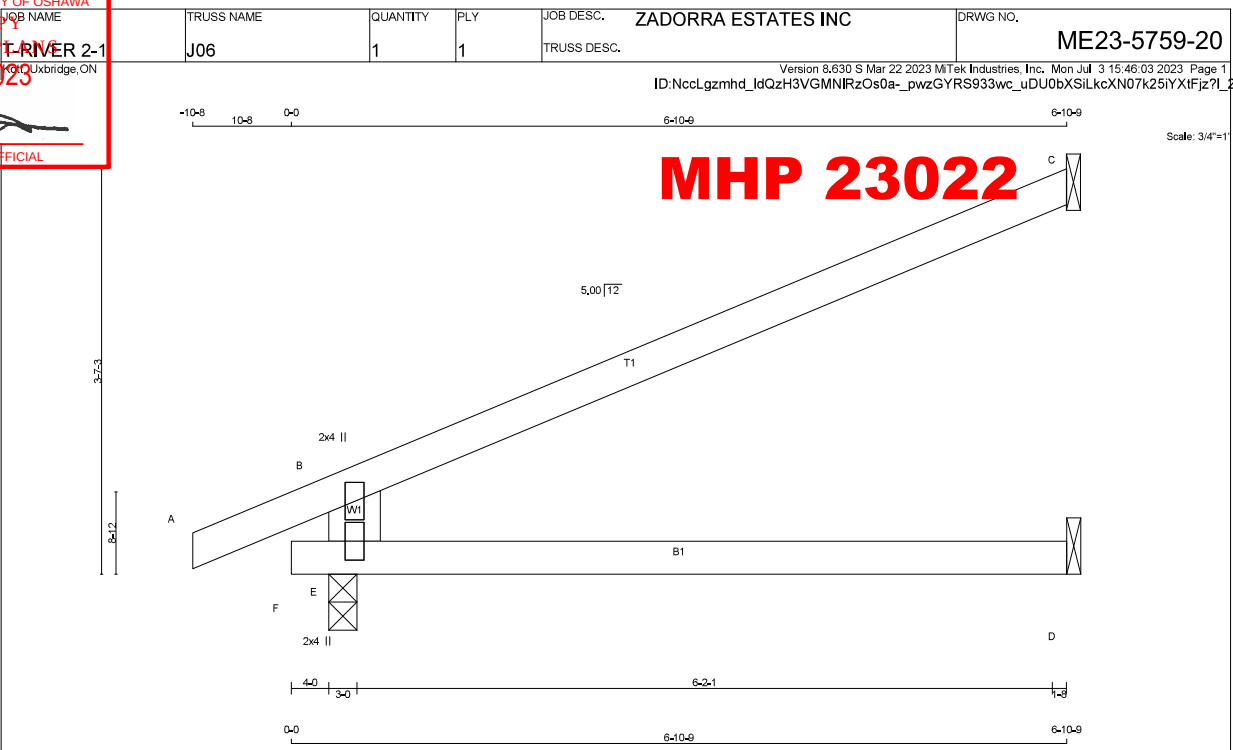
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PROVINCE OF ONTARIO

REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
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LUMBER

N, L, G, A, RULES	CHORDS	SIZE	DRY	No.2
E - B	2x6	DRY	No.2	
A - C	2x4	DRY	No.2	
F - 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	FACTORED GROSS REACTION	MAXIMUM FACTORED GROSS REACTION	INPUT BRG	REQRD BRG	IN-SX
E	721	721	0	3-0	1-8
C	293	293	0	1-8	1-8
D	45	50	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	502	373 / 0	0 / 0	0 / 0	0 / 0	129 / 0	0 / 0
C	200	171 / 0	0 / 0	0 / 0	0 / 0	29 / 0	0 / 0
D	36	0 / 0	0 / 0	0 / 0	0 / 0	36 / 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. UNBRACED LENGTH (LC)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO		FROM TO		FR-TO	
E-B	-640 / 0	0.0 0.0 0.04 (1)	7.81		
A-B	0 / 29	-119.4 -119.4 0.13 (1)	10.00		
B-C	-38 / 0	-119.4 -119.4 0.67 (1)	6.25		
F-E	0 / 0	-18.2 -18.2 0.00 (4)	10.00		
E-D	0 / 0	-18.2 -18.2 0.23 (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 = 240 IN. G/C

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

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/960 (0.22")
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CANTILEVER DEFLECTION:
ALLOWABLE DEFL.(TL)= L/120 (0.19")
CALCULATED VERT. DEFL.(TL) = L/999 (0.00")

CSI: TC=0.67/1.00 (B-C:1), BC=0.23/1.00 (D-E:4),
WB=0.00/1.00 (n/a:0), SSI=0.35/1.00 (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	GRP(DRY)	SHEAR	SECTION
	(PSI)	(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.

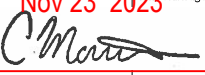
JSI GRIP= 0.35 (B) (INPUT = 0.90)
JSI METAL= 0.23 (B) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

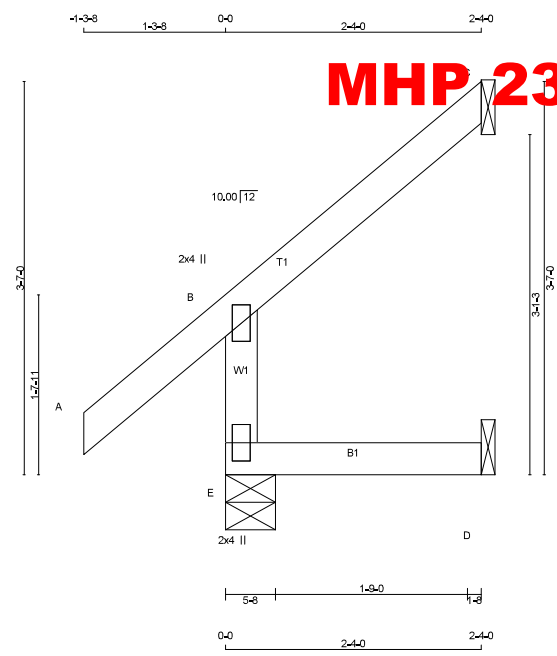


REVIEW FOR TRUSS COMPONENT ONLY

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PER: 
CHIEF BUILDING OFFICIAL

JOB NAME RIVER 2-1	TRUSS NAME J07	QUANTITY 4	PLY 1	JOB DESC. ZADORRA ESTATES INC	DRWG NO. ME23-5759-21
TRUSS DESC. Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Mon Jul 3 15:46:04 2023 Page 1 ID:NccLgzmhd_IdQzH3VGMNIRzOs0a-S?ULTuS4wMBnE8TP1k6m_wu0GxmTsBfXCHRo9z?L					



MHP 23022

LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR. SPF

E - B	2x4	DRY	No.2	SPF
A - C	2x4	DRY	No.2	SPF
E - D	2x4	DRY	No.2	SPF

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	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	FACTORED GROSS REACTION VERT	MAXIMUM FACTORED GROSS REACTION DOWN	FACTORED GROSS REACTION UP	INPUT BRG IN-SX	REQD BRG IN-SX
E	362	0	362	0	5-8
C	105	0	105	0	1-8
D	19	0	22	0	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	250	198 / 0	0 / 0	0 / 0	0 / 0	53 / 0	0 / 0
C	72	81 / 0	0 / 0	0 / 0	0 / 0	11 / 0	0 / 0
D	15	0 / 0	0 / 0	0 / 0	0 / 0	15 / 0	0 / 0

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

CHORDS				WEBS			
MEMB.	FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	FACTORED MAX. UNBRACED LENGTH (LC)	MEMB.	FACTORED FORCE (LBS)	FACTORED MAX. UNBRACED LENGTH (LC)	
FR-TO		FROM	TO	FR-TO			
E-B	-339 / 0	0.0	0.0 (4)	7.81			
A-B	0 / 53	-119.4	-119.4 (1)	10.00			
B-C	-22 / 0	-119.4	-119.4 (6)	6.25			
E-D	0 / 0	-18.2	-18.2 (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. G/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=0.16/1.00 (A-B 1), BC=0.02/1.00 (D-E 4), WB=0.00/1.00 (n/a 0), SSI=0.10/1.00 (B-C 6)

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= 0.23 (B) (INPUT = 0.90)
JSI METAL= 0.18 (B) (INPUT = 1.00)

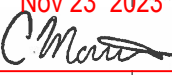
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REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
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OF PERMIT PLANS
Nov 23 2023

PER: 
CHIEF BUILDING OFFICIAL

TRUSS NAME: T01 QUANTITY: 13 PLY: 1 JOB DESC.: ZADORRA ESTATES INC
TRUSS DESC.:

DRWG NO.

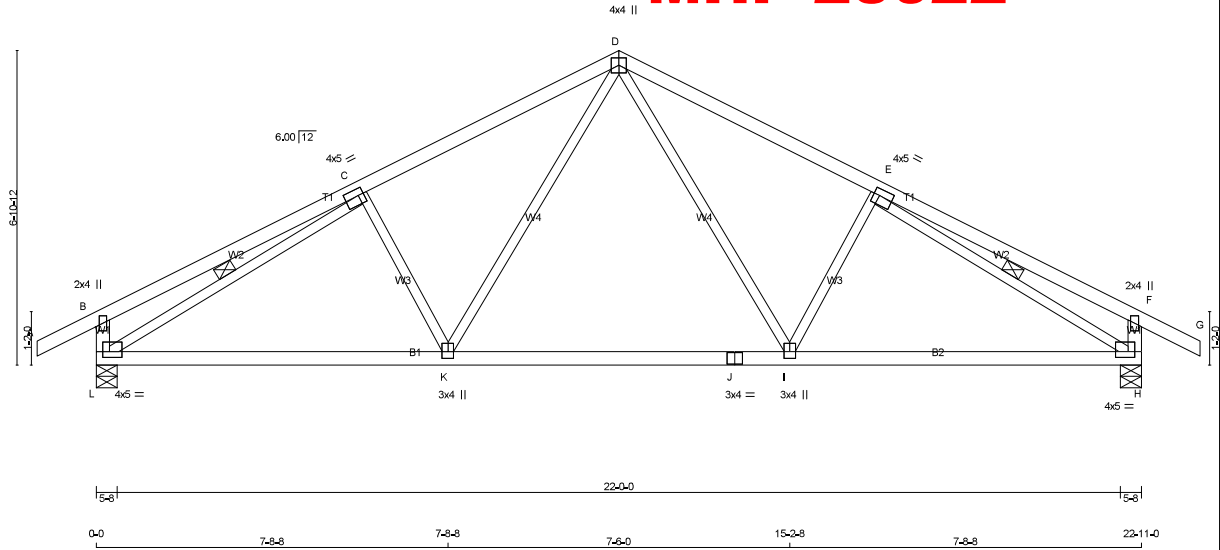
ME23-5759-22

Version 8.630 S Mar 22 2023 MTEK Industries, Inc. Mon Jul 3 15:46:06 2023 Page 1

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Scale = 1:39.7

MHP 23022



LUMBER

N, L, G, A, RULES

CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY	No.2
D - G	2x4	DRY	No.2
L - B	2x4	DRY	No.2
H - F	2x4	DRY	No.2
L - J	2x4	DRY	No.2
J - H	2x4	DRY	No.2

ALL WEBS 2x3 DRY No.2 SPF
EXCEPT

DRY: SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW+4	MT20	4.0	5.0	1.75	1.50
D	TMWW+p	MT20	4.0	4.0		
E	TMWW+4	MT20	4.0	5.0	1.75	1.50
F	TMV+p	MT20	2.0	4.0		
H	BMVW+4	MT20	4.0	5.0	1.50	1.75
I	BMVW+4	MT20	3.0	4.0	1.75	1.50
J	BS4	MT20	3.0	4.0		
K	BMVW+4	MT20	3.0	4.0	1.75	1.50
L	BMVW+4	MT20	4.0	5.0	1.50	1.75

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	DOWN	HORZ	UPLIFT
L	1740	0	1740	0
H	1740	0	1740	0

UNFACTORED REACTIONS

JT	1ST CASE	MAX./MIN.	COMPONENT REACTIONS
	COMBINED	SNOW	LIVE
L	1213	892 / 0	0 / 0
H	1213	892 / 0	0 / 0

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

BRACING

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.20 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 LATERAL BRACE(S) AT 1/2 LENGTH OF C_{4L}, E_{4L}.

END VERTICAL(S) MUST BE SHEATHED OR HAVE BRACES AS INDICATED IN THE MAX. UNBRACED LENGTH COLUMN OF THE TABLE BELOW

LOADING

TOTAL LOAD CASES: (4)

CHORDS				WEBS			
MEMB.	MAX. FACTORED FORCE (LBS)	FACTORED VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. CSI (LC)	
FR-TO		FROM TO	UNBRAC LENGTH	FR-TO			
A-B	0 / 36	-119.4 -119.4	0.16 (1)	10.00	D-I	0 / 679	0.15 (1)
B-C	0 / 36	-119.4 -119.4	0.63 (1)	10.00	I-E	-497 / 0	0.15 (1)
C-D	-1936 / 0	-119.4 -119.4	0.56 (1)	4.20	K-D	0 / 679	0.15 (1)
D-E	-1936 / 0	-119.4 -119.4	0.56 (1)	4.20	C-K	-497 / 0	0.15 (1)
E-F	0 / 36	-119.4 -119.4	0.63 (1)	10.00	L-C	-2308 / 0	0.72 (1)
F-G	0 / 36	-119.4 -119.4	0.16 (1)	10.00	E-H	-2308 / 0	0.72 (1)
L-B	-424 / 0	0.0	0.0	0.04 (1)	7.81		
H-F	-424 / 0	0.0	0.0	0.04 (1)	7.81		
L-K	0 / 1936	-18.2	-18.2	0.44 (1)	10.00		
K-J	0 / 1367	-18.2	-18.2	0.34 (1)	10.00		
J-I	0 / 1367	-18.2	-18.2	0.34 (1)	10.00		
I-H	0 / 1936	-18.2	-18.2	0.44 (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. GIG

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 (0.76")
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")
ALLOWABLE DEFL.(TL) = L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")

CSI TC=0.63/1.00 (B-C:1), BC=0.44/1.00 (K-L:1), WB=0.72/1.00 (C-L:1), SS=0.30/1.00 (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)
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 (C) (INPUT = 0.90)
JSI METAL= 0.62 (C) (INPUT = 1.00)

MODULUS ENGINEERING LTD.



REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED IN MODULUS ENGINEERING LTD. NOTES ME-TC001 (VER 06/2017) BEFORE USE.

Design valid for use only with Mitek connectors. This design is based only upon parameters shown, and is for individual building components. Applicability of design parameters and proper incorporation of component is responsibility of building designer - not truss designer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult

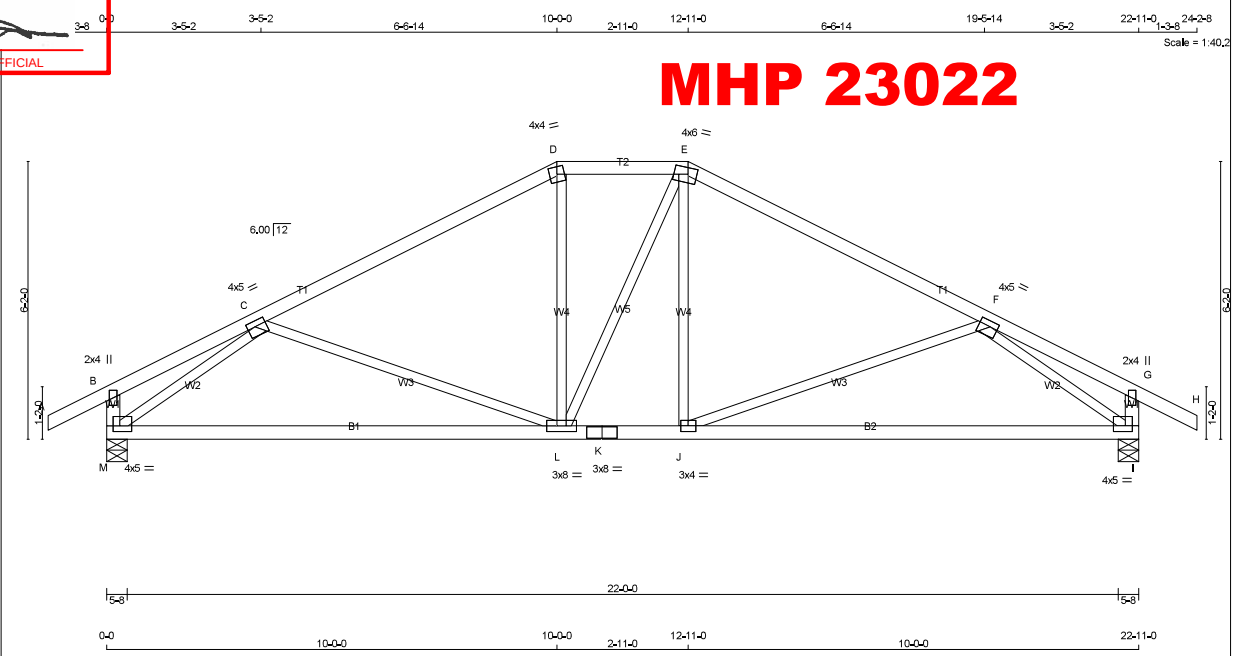
TPIC Appendix G - Minimum quality Manufacturing Criteria available from www.tpica.ca and BCSI-CANADA (Building Component Safety Information) available from TPI, 781 N. Lee Street, Suite 312, Alexandria, VA 22314 or www.sbindustry.com



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Nov 23 2023
PER: *C. Morris*
CHIEF BUILDING OFFICIAL

JOBB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	ZADORRA ESTATES INC	DRWG NO.	ME23-5759-23
T-RIVER 2-1	T02	1	1	TRUSS DESC.			

Version 8.630 S Mar 22 2023 Mitek Industries, Inc. Mon Jul 3 15:46:08 2023 Page 1
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LUMBER
N. L. G. A. RULES
CHORDS SIZE LUMBER DESCR.

A - D	2x4	DRY	No.2	SPF
D - E	2x4	DRY	No.2	SPF
E - H	2x4	DRY	No.2	SPF
M - B	2x4	DRY	No.2	SPF
I - G	2x4	DRY	No.2	SPF
M - K	2x4	DRY	No.2	SPF
K - I	2x4	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF

DRY, SEASONED LUMBER.

PLATES (table is in inches)

JT	TYPE	PLATES	W	LEN	Y	X
B	TMV+p	MT20	2.0	4.0		
C	TMWW4	MT20	4.0	5.0	1.50	2.00
D	TTW-m	MT20	4.0	4.0		
E	TTWW-m	MT20	4.0	6.0	1.75	2.25
F	TMWW4	MT20	4.0	5.0	1.50	2.00
G	TMV+p	MT20	2.0	4.0		
I	BMVW14	MT20	4.0	5.0	1.50	1.75
J	BMWW4	MT20	3.0	4.0		
K	BS4	MT20	3.0	8.0		
L	BMVWW4	MT20	3.0	8.0		
M	BMVW14	MT20	4.0	5.0	1.50	1.75

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
M	1740	0	1740	0
I	1740	0	1740	0

UNFACTORED REACTIONS

	1ST CASE	MAX./MIN. COMPONENT REACTIONS						
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL	
M	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 0	0 / 0	
I	1213	892 / 0	0 / 0	0 / 0	0 / 0	321 / 0	0 / 0	

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.10 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

LOADING
TOTAL LOAD CASES: (4)

C H O R D S				W E B S			
MEMB.	MAX. FACTORED FORCE (LBS)	VERT. LOAD (PLF)	MAX. CSI (LC)	MEMB.	MAX. FACTORED FORCE (LBS)	MAX. UNBRACED LENGTH	MAX. FACTORED FORCE (LBS)
FR-TO		FROM	TO	FR-TO			
A-B	0 / 36	-119.4	-119.4	0.16 (1)	10.00	C-L	-390 / 0
B-C	0 / 62	-119.4	-119.4	0.64 (1)	10.00	L-D	0 / 269
C-D	-1752 / 0	-119.4	-119.4	0.70 (1)	4.10	L-E	0 / 1
D-E	-1543 / 0	-119.4	-119.4	0.16 (1)	5.16	J-E	0 / 268
E-F	-1752 / 0	-119.4	-119.4	0.70 (1)	4.10	J-F	-390 / 0
F-G	0 / 62	-119.4	-119.4	0.64 (1)	10.00	M-C	-2386 / 0
G-H	0 / 36	-119.4	-119.4	0.16 (1)	10.00	F-I	-2386 / 0
M-B	-223 / 0	0.0	0.0	0.02 (1)	7.81		
I-G	-223 / 0	0.0	0.0	0.02 (1)	7.81		
M-L	0 / 1903	-18.2	-18.2	0.52 (1)	10.00		
L-K	0 / 1543	-18.2	-18.2	0.50 (4)	10.00		
K-J	0 / 1543	-18.2	-18.2	0.50 (4)	10.00		
J-I	0 / 1903	-18.2	-18.2	0.53 (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. GIG

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, NBC2015

THIS DESIGN COMPLIES WITH:
- PART 9 OF CBC2015 - 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 (0.76")
CALCULATED VERT. DEFL.(LL) = L/999 (0.07")
ALLOWABLE DEFL.(TL)= L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/813 (0.34")

CSI: TC=0.70/1.00 (C-D-1), BC=0.53/1.00 (I-J-1), WB=0.70/1.00 (C-M-1), SSI=0.33/1.00 (E-F-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

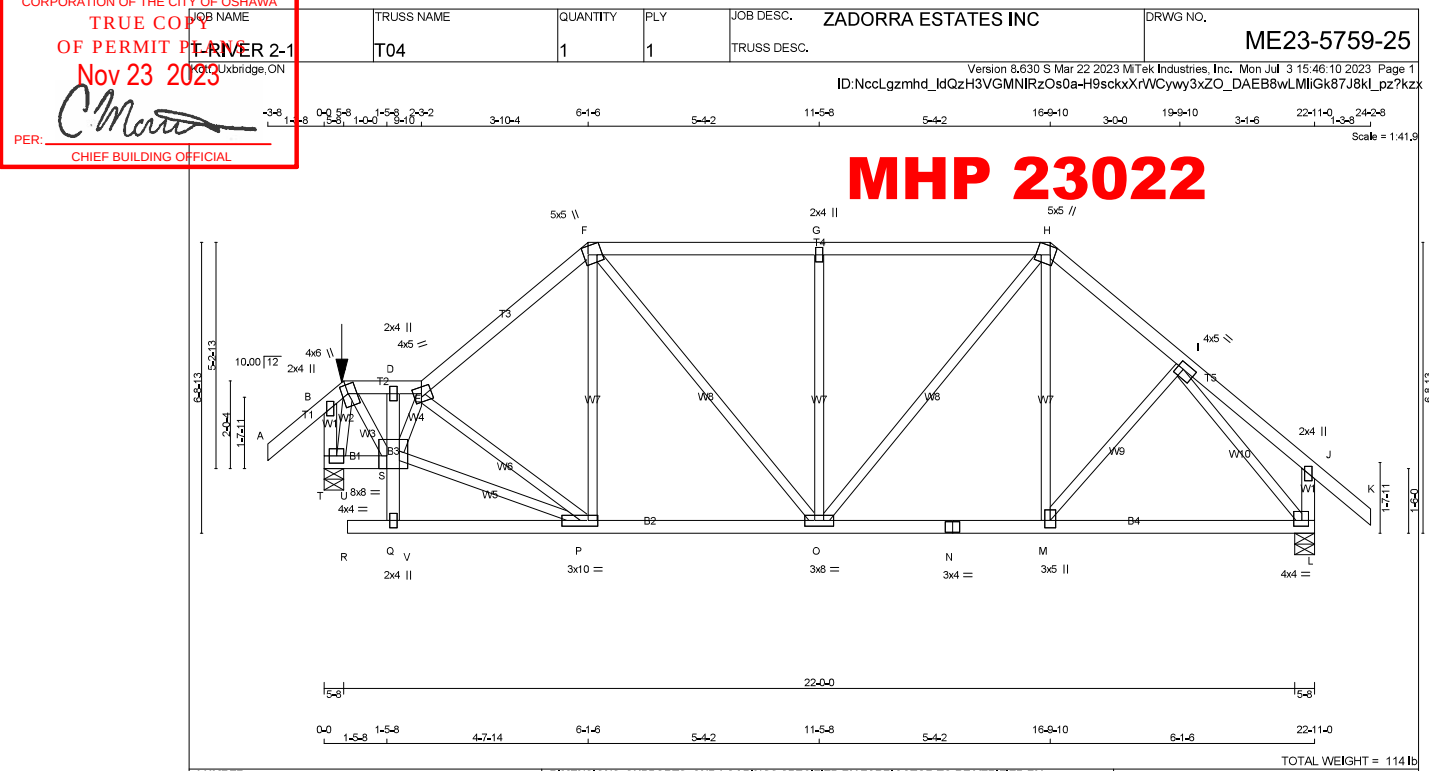
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (K) (INPUT = 0.90)
JSI METAL= 0.89 (K) (INPUT = 1.00)

MODULUS ENGINEERING LTD.

REVIEW FOR TRUSS COMPONENT ONLY
NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEER'S SEAL





LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - C	2x4	DRY	No.2
C - F	2x4	DRY	No.2
F - H	2x4	DRY	No.2
H - K	2x4	DRY	No.2
T - B	2x4	DRY	No.2
L - J	2x4	DRY	No.2
T - S	2x4	DRY	No.2
Q - D	2x4	DRY	No.2
R - N	2x4	DRY	No.2
N - L	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, D, J				
B	TMV+p	MT20	2.0	4.0
C	TTWW+m	MT20	4.0	6.0 2.50 1.75
E	TTWW+m	MT20	4.0	5.0 1.75 2.25
F	TTWW+m	MT20	5.0	5.0 2.25 1.25
G	TMV+w	MT20	2.0	4.0
H	TTWW+m	MT20	5.0	5.0 2.25 1.25
I	TMVW+4	MT20	4.0	5.0 1.75 1.75
L	BMVW+4	MT20	4.0	4.0 1.50 1.75
M	BMVW+4	MT20	3.0	5.0 2.00 1.50
N	BS+4	MT20	3.0	4.0
O	BMVW+4	MT20	5.0	5.0 2.25 1.25
P	BMVW+4	MT20	3.0	10.0 1.50 4.75
Q	BMV+p	MT20	2.0	4.0
S	BMVW+4	MT20	8.0	8.0 Edge 2.25
T	BMVW+4	MT20	4.0	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	DOWN	BRG	BRG				
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX		
T	1742	0	1742	0	0	5-8	1-14		
L	1738	0	1738	0	0	5-8	1-14		

UNFACTORED REACTIONS						
JT	1ST LOASE	MAX./MIN.	COMPONENT	REACTIONS		
	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
T	1217	887 / 0	0 / 0	0 / 0	0 / 0	330 / 0
L	1212	890 / 0	0 / 0	0 / 0	0 / 0	322 / 0

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

BRACING

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

MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

LOADING									
TOTAL LOAD CASES: (4)									
CHORDS					WEBS				
MEMB.	MAX. FACTORED	FORCE	VERT. LOAD	LC1 MAX	MEMB.	MAX. FACTORED	FORCE	MAX	
(LBS)	(PLF)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	(LBS)	
FR-TO	FROM	TO	LENGTH	FR-TO	FROM	TO	LENGTH	FR-TO	
A-B	0 / 53	-119.4	-119.4	0.18 (1)	10.00	C-S	0 / 1681	0.42 (1)	
B-C	-143 / 0	-119.4	-119.4	0.17 (1)	6.25	S-P	0 / 1582	0.39 (1)	
C-D	-1284 / 0	-105.7	-105.7	0.08 (1)	5.81	S-E	-909 / 0	0.15 (1)	
D-E	-1233 / 0	-105.7	-105.7	0.05 (1)	5.71	E-P	-812 / 0	0.27 (1)	
E-F	-1423 / 0	-119.4	-119.4	0.39 (1)	4.96	P-F	-10 / 80	0.03 (4)	
F-G	-1481 / 0	-119.4	-119.4	0.70 (1)	4.28	F-O	0 / 575	0.14 (1)	
G-H	-1481 / 0	-119.4	-119.4	0.70 (1)	4.28	O-G	-780 / 0	0.80 (1)	
H-I	-1468 / 0	-119.4	-119.4	0.22 (1)	5.15	O-H	0 / 554	0.14 (1)	
I-J	0 / 25	-119.4	-119.4	0.18 (1)	10.00	M-H	0 / 105	0.04 (4)	
J-K	0 / 53	-119.4	-119.4	0.18 (1)	10.00	M-I	0 / 46	0.02 (4)	
T-B	-420 / 0	0.0	0.0	0.05 (1)	7.81	T-C	-1365 / 0	0.22 (1)	
L-J	-304 / 0	0.0	0.0	0.04 (1)	7.81	I-L	-1765 / 0	0.68 (1)	
T-U	0 / 387	-16.2	-16.2	0.08 (1)	10.00				
U-S	0 / 387	-16.2	-16.2	0.08 (1)	10.00				
Q-S	0 / 51	0.0	0.0	0.14 (1)	10.00				
S-D	0 / 19	0.0	0.0	0.14 (1)	10.00				
R-Q	0 / 0	-16.2	-16.2	0.02 (4)	10.00				
Q-V	0 / 61	-16.2	-16.2	0.12 (4)	10.00				
V-P	0 / 61	-16.2	-16.2	0.12 (4)	10.00				
P-O	0 / 1093	-18.2	-18.2	0.26 (1)	10.00				
O-N	0 / 1107	-18.2	-18.2	0.29 (1)	10.00				
N-M	0 / 1107	-18.2	-18.2	0.29 (1)	10.00				
M-L	0 / 1092	-18.2	-18.2	0.29 (1)	10.00				

FACTORED CONCENTRATED LOADS (LBS)							
JT	LOC.	LC1	MAX.	FACE	DIR.	TYPE	HEEL
C	6-2	-5	-5	MAX+	FRONT	VERT	CONN.
							C1

CONNECTION REQUIREMENTS

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

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. GIG

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

GIRDER TYPE: CPrimeHip
LEFT SETBACK = 6-2
RIGHT SETBACK = 6-1-6
END SETBACK = 2-0-0
END WALL WIDTH = 5-8
CORNER FRAMING TYPE: CONVENTIONAL
END JACK TYPE: CONVENTIONAL
APPLIED TO FRONT SIDE
- ADDTL LOADS BASED ON 55 % OF GSL.
LOADS APPLIED TO FIRST 2-0-0 OF SPAN
MEASURED FROM THE LEFT.

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

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 (0.76")
CALCULATED VERT. DEFL.(LL) = L/999 (0.05")
ALLOWABLE DEFL.(TL) = L/360 (0.76")
CALCULATED VERT. DEFL.(TL) = L/999 (0.09")

CSI: TC=0.70/1.00 (G+H-1), BC=0.29/1.00 (M-O-1),
WB=0.68/1.00 (H-L-1), SSI=0.34/1.00 (F-G-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

AUTOSOLVE 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)
MT20	650	371	1747 788 1987 1873

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

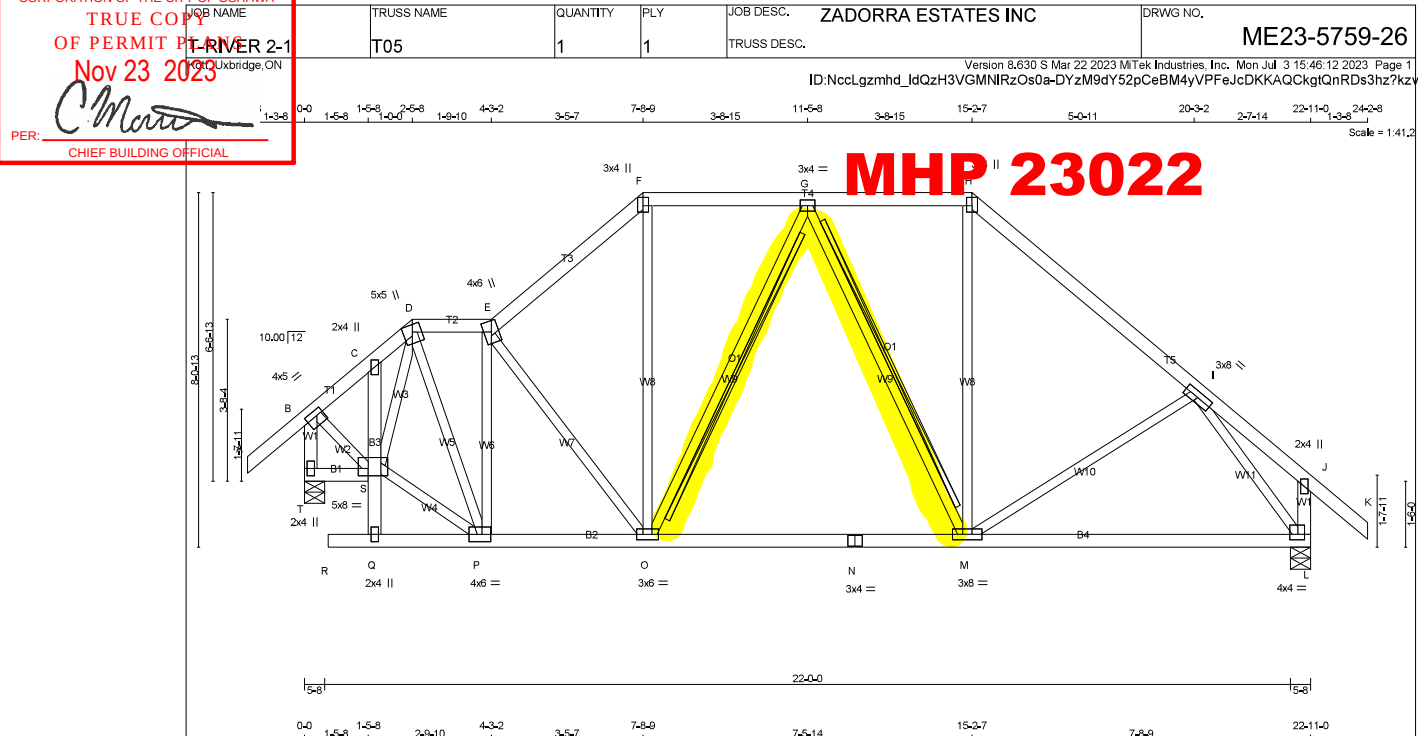
JSI GRIP= 0.89 (P) (INPUT = 0.90)
JSI METAL= 0.47 (I) (INPUT = 1.00)

MODULUS ENGINEERING LTD.



REVIEW FOR TRUSS COMPONENT ONLY

NOTE: ALTERING THIS DOCUMENT
VOIDS THE ENGINEERS SEAL



LUMBER			
N. L. G. A. RULES			
CHORDS	SIZE	LUMBER	DESCR.
A - D	2x4	DRY No.2	SPF
D - F	2x4	DRY No.2	SPF
F - H	2x4	DRY No.2	SPF
H - K	2x4	DRY No.2	SPF
T - B	2x4	DRY No.2	SPF
L - J	2x4	DRY No.2	SPF
T - S	2x4	DRY No.2	SPF
Q - C	2x4	DRY No.2	SPF
R - N	2x4	DRY No.2	SPF
N - L	2x4	DRY No.2	SPF

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

PLATES (table is in inches)				
JT TYPE	PLATES	W	LEN	Y X
B TMVW4	MT20	4.0	5.0	1.50 1.75
C TMV+p	MT20	4.0	2.0	4.0
D TTWW+m	MT20	5.0	5.0	Edge
E TTWW+m	MT20	4.0	6.0	
F TTW+p	MT20	3.0	4.0	2.25 1.50
G TMWW4	MT20	3.0	4.0	
H TTW+p	MT20	3.0	4.0	2.25 1.50
I TMWW4	MT20	3.0	8.0	
J TMV+p	MT20	2.0	4.0	
L BMWW4	MT20	4.0	4.0	1.50 1.75
M BMWWW4	MT20	3.0	8.0	
N BS4	MT20	3.0	4.0	
O BMWWW4	MT20	3.0	6.0	
P BMWWW4	MT20	4.0	6.0	
Q BMV+p	MT20	2.0	4.0	
S BMWWW4	MT20	5.0	8.0	2.00 2.75
T 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	REQRD
JT	GROSS REACTION	DOWN	DOWN	BRG	BRG
T	1766	0	1766	0	5-8
L	1739	0	1739	0	5-8

UNFACTORED REACTIONS		1ST CASE	MAX./MIN.	COMPONENT REACTIONS
JT	COMBINED	SNOW	LIVE	PERM.LIVE
T	1233	897 / 0	0 / 0	0 / 0
L	1213	891 / 0	0 / 0	0 / 0

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

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.02 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 7.81 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 G-O, G-M
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)	
CHORDS		WEBS	
MEMB.	MAX. FACTORED FORCE (LBS)	MEMB.	MAX. FACTORED FORCE (LBS)
FR-TO	0 / 53	FR-TO	0 / 1009
A-B	-1168 / 0	S-P	-70 / 9
B-C	-1093 / 0	D-P	0 / 626
C-D	-1052 / 0	P-E	-1084 / 0
D-E	-1351 / 0	E-O	-119 / 0
E-F	-1044 / 0	O-F	0 / 480
F-G	-1058 / 0	G-H	-311 / 0
G-H	-1405 / 0	H-I	-283 / 0
H-I	0 / 71	I-J	0 / 446
I-J	0 / 53	J-K	-53 / 39
J-K	-1751 / 0	K-L	0 / 1098
K-L	-205 / 0	L-M	-1838 / 0
T-S	0 / 0	S-P	0 / 1009
Q-S	0 / 42	P-E	-1084 / 0
S-C	-36 / 0	E-O	-119 / 0
R-Q	0 / 0	O-F	0 / 480
Q-P	0 / 77	F-G	-1058 / 0
P-O	0 / 1108	G-H	-311 / 0
O-N	0 / 1176	H-I	-283 / 0
N-M	0 / 1176	I-J	0 / 446
M-L	0 / 1095	J-K	-53 / 39

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. GIG

LOADING IN ALL FLAT SECTIONS 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

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 DEF.(LL) = L/360 (0.76")
CALCULATED VERT. DEF.(LL) = L/999 (0.04")
ALLOWABLE DEF.(TL) = L/360 (0.76")
CALCULATED VERT. DEF.(TL) = L/999 (0.12")

CSI: TC=0.42/1.00 (H-I-1), BC=0.35/1.00 (M-O-4), WB=0.54/1.00 (L-L-1), SSI=0.22/1.00 (H-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

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) (PU)
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.

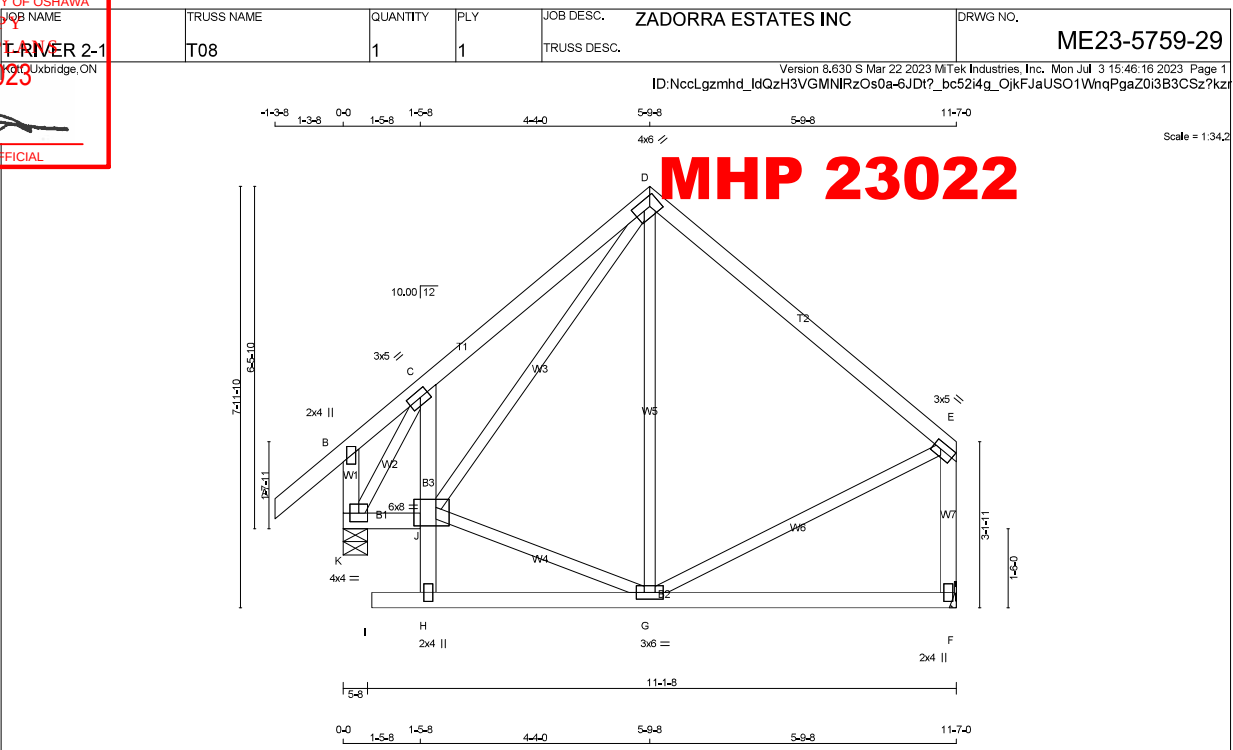
JSI GRIP= 0.90 (E) (INPUT = 0.90)
JSI METAL= 0.39 (N) (INPUT = 1.00)

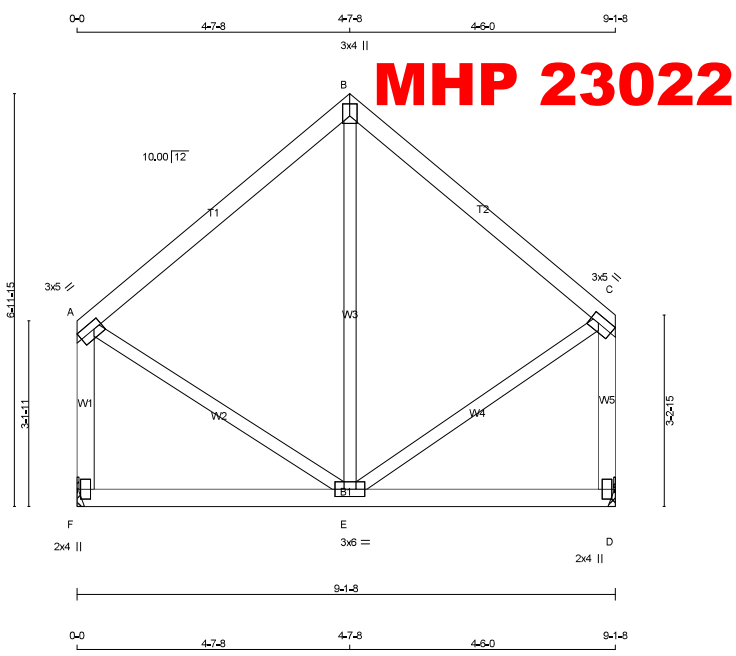
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CORPORATION OF THE CITY OF OSHAWA
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OF PERMIT PLANS
Nov 23 2023
PER: 
CHIEF BUILDING OFFICIAL





LUMBER										DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNER										DESIGN CRITERIA									
N. L. G. A. RULES																													
CHORDS SIZE LUMBER DESCR.																				SPECIFIED LOADS:									
A - B 2x4 DRY No.2 SPF																				TOP CH. LL = 34.8 PSF									
B - C 2x4 DRY No.2 SPF																				DL = 6.0 PSF									
F - A 2x4 DRY No.2 SPF																				BOT CH. LL = 0.0 PSF									
D - C 2x4 DRY No.2 SPF																				DL = 7.3 PSF									
F - D 2x4 DRY No.2 SPF																				TOTAL LOAD = 48.1 PSF									
ALL WEBS 2x3 DRY No.2 SPF										A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT F, D, MINIMUM BEARING LENGTH AT JOINT F = 1-8, JOINT D = 1-8.										SPACING = 24.0 IN. G.C									
EXCEPT																													
DRY: SEASONED LUMBER.																				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									
PLATES (table is in inches)																				ALLOWABLE DEFL.(LL)= L/360 (0.30")									
JT TYPE PLATES W LEN Y X																				CALCULATED VERT. DEFL.(LL) = L/999 (0.00")									
A TMWw4 MT20 3.0 5.0 1.50 1.75																				ALLOWABLE DEFL.(TL)= L/360 (0.30")									
B TTW+p MT20 3.0 4.0 2.50 1.50																				CALCULATED VERT. DEFL.(TL) = L/999 (0.01")									
C TMWw4 MT20 3.0 5.0 1.50 1.75																				CSI: TC=0.33/1.00 (A-B:1), BC=0.11/1.00 (D-E:4), WB=0.14/1.00 (B-E:1), SH=0.17/1.00 (A-B:1)									
D BMV1+p MT20 2.0 4.0																				DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10									
E BMWwWw4 MT20 3.0 6.0																				COMP=1.10 SHEAR=1.10 TENS=1.10									
F BMV1+p MT20 2.0 4.0																				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= 0.51 (C) (INPUT = 0.90)									
																				JSI METAL= 0.13 (A) (INPUT = 1.00)									

