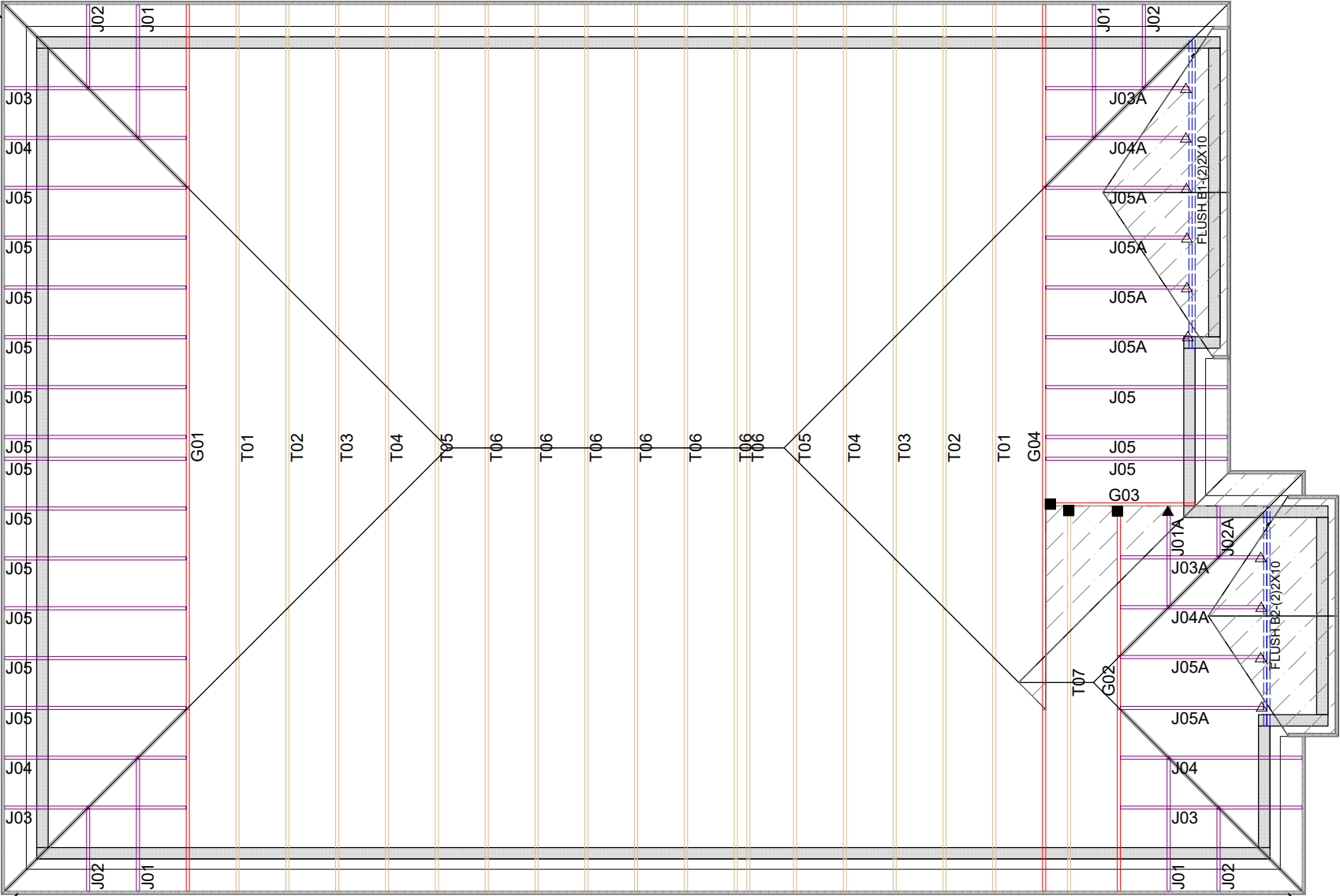


CORPORATION OF THE CITY OF OSHAWA  
TRUE COPY  
OF PERMIT PLANS  
Nov 15 2023  
PER:   
CHIEF BUILDING OFFICIAL

MHP 23028



| Hanger Name | Symbol | QTY |
|-------------|--------|-----|
| LUS24       | ▲      | 1   |
| LJS26DS     | ■      | 3   |
|             | ●      | 0   |
|             | ◆      | 0   |
| LUS28       | △      | 10  |
|             | □      | 0   |
|             | ◊      | 0   |
|             | ○      | 0   |

BOTTOM OF SOFFIT LEVEL WITH TOP OF PLATE



CONVENTIONAL  
FRAMING BY OTHERS

ALL CONVENTIONAL FRAMING TO CONFORM WITH PART 9 OF THE OBC. ROOF RAFTERS THAT CROSS OVER TRUSSES TO BE MIN. 2x4 SPF @ 24" C/C WITH A 2x4 VERTICAL POST TO THE TRUSS BELOW. VERTICAL POSTS TO BE Laterally BRACED SO THAT UNBRACED LENGTH DOES NOT EXCEED 6'. DESIGN OF CONVENTIONAL FRAMING IS THE RESPONSIBILITY OF THE PROJECT ENGINEER.

JOB INFORMATION

|           |  |
|-----------|--|
| Customer  | GREENPARK HOMES  |
| Job #     | 23-00111R0   |
| Address   | ZADORRA ESTATES<br>ROSE 2 EL 3<br>OSHAWA,ON                                    |
| Model     | ROSE 2 EL 3  |
| Sales Rep | RALPH MIRIGELLO  |
| Designer  | BB   |
| Date      | 7/13/2023  |
| Path      | S:\DESIGN\KL\CUSTOMERS\GREENPARK\ZADORRA ESTATES\MODELS\ROSE 2\ROSE 2-3\T-ROSE |

DESIGN INFORMATION

|               |   |
|---------------|---|
| Code          | NBCC 2015   |
| Bldg          | Residential - HSB (NBCC Part 9)                       |
| TC LL         | 34.8 lb/ft <sup>2</sup>                               |
| TC DL         | 6.0 lb/ft <sup>2</sup>                                |
| BC LL         | 0.0 lb/ft <sup>2</sup>                                |
| BC DL         | 7.3 lb/ft <sup>2</sup>                                |
| Deflection    | LL=L/360 TL=L/360                                     |
| Spacing       | 24" O/C unless otherwise noted                        |
| Complies With | OBC 2012 (2019 Amendment)<br>CSA O86-14 and TPIC 2014 |

IMPORTANT INFORMATION

Hangers and Fasteners to be installed as per manufacturer

Refer to truss drawings in the Truss Engineering Package for ply-to-ply attachment notes

For site-framed valleys: top chords of all roof trusses must be laterally supported using 2x4 continuous bracing @24 O/C - all bracing must be anchored at ends as per TPIC Installation Guidelines

Read all notes on this page in addition to those shown on the KOTT Truss Engineering package

Field erection, handling and bracing are not the responsibility of KOTT, or KOTT Engineering

Unless noted otherwise, hurricane ties are to be installed at the bearings of all trusses > 40 ft clear span, and any girder or beam supporting trusses with a clear span >40 ft. See hanger legend for type.

Unless noted otherwise, for Part 9 bldgs, all trusses are to be anchored to the top of supporting walls as follows: trusses with a clear span <40 ft use 3-1/4" nails @ each bearing; trusses with a clear span >40 ft use 3-1/4" nails @ each bearing in addition to the appropriate hurricane tie.

KOTT Inc.  
14 Anderson Blvd.  
Uxbridge, ON  
905.642.4400



## Engineering Notes: Trusses



MHP 23028



PLEASE READ PRIOR TO INSTALLATION OF THE COMPONENT

**RESPONSIBILITIES**

THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON CALCULATION PAGE. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER.

IT IS THE RESPONSIBILITY OF KOTT Inc. TO ENSURE THAT TRUSSES ARE MANUFACTURED IN CONFORMANCE WITH THESE DESIGNS AND WITH THE SPECIFICATIONS OUTLINED BELOW. THE UNDERSIGNED ENGINEER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT.

**DESIGN INFORMATION**

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

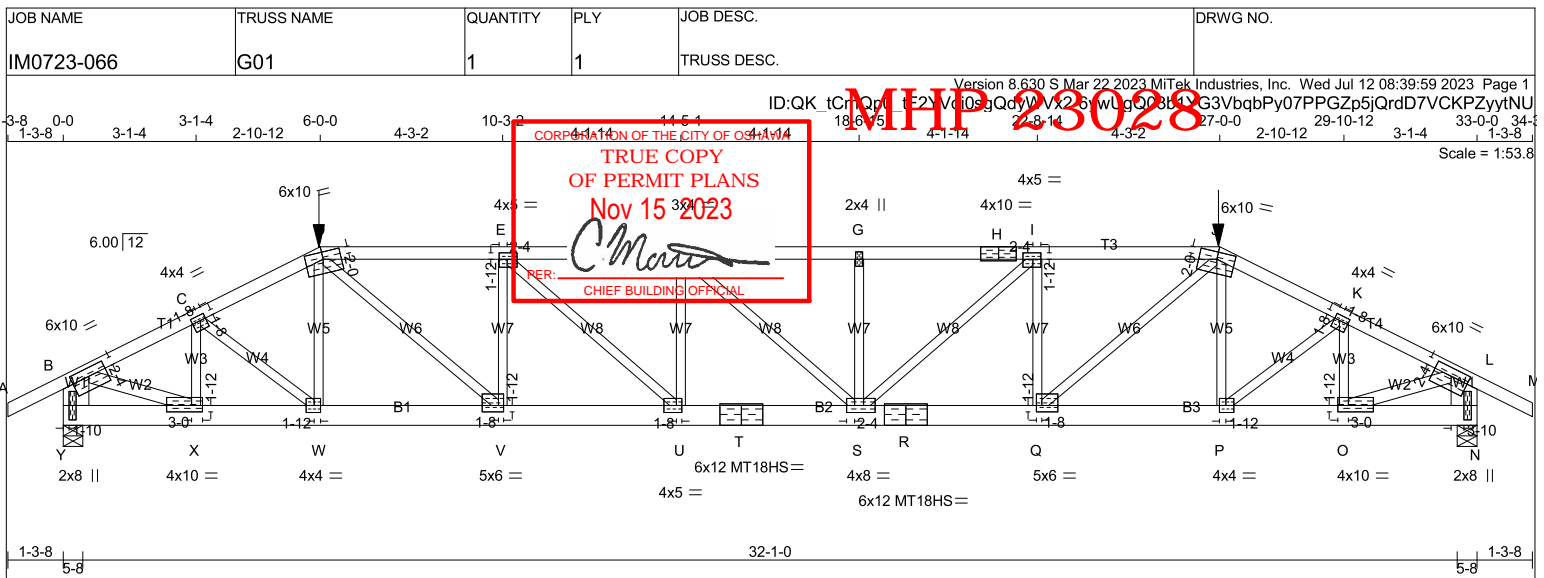
1. THE BUILDING USE AND OCCUPANCY TYPE IS AS INDICATED ON THE DRAWING.
2. GEOMETRY OF THE TRUSS AND DIMENSIONS INDICATED ON THE DRAWING ARE IDENTICAL TO THOSE OF THE INSTALLED TRUSS.
3. THE TRUSS LOADING INTENSITY AND DISTRIBUTION AS WELL AS LOAD TRANSFER MECHANISM IS THAT INDICATED ON THE DRAWING. NO BUILDINGS, TREES, PARAPETS OR OTHER PROJECTIONS HIGHER THAN THE ROOF FOR WHICH THE TRUSSES ARE USED ARE LOCATED WITHIN A DISTANCE LESS THAN TEN (10) TIMES THE DIFFERENCE IN HEIGHT, OR FIVE METERS (16 FT) WHICHEVER IS GREATER, UNLESS THE DRAWING INDICATES THAT THE SNOW DRIFTING HAS BEEN TAKEN INTO ACCOUNT.
4. THE TRUSSES ARE TO BE SUPPORTED AT THE BEARING POINTS INDICATED AND ANCHORED TO THE SUPPORTS WHERE CONSIDERED NECESSARY BY THE DESIGNER OF THE OVERALL STRUCTURE. BEARING SIZES SHOWN ARE THE MINIMUM REQUIRED TO PREVENT CRUSHING OF THE TRUSS MEMBERS AND DO NOT NECESSARILY TAKE INTO ACCOUNT STABILITY OF THE OVERALL BUILDING STRUCTURE. ELEVATION OF BEARINGS MUST BE CAREFULLY CHECKED AND SHIMMED TO ALIGNMENT FOR SOLID BEARINGS. ADEQUATE WOOD TRUSS BEARING IS THE RESPONSIBILITY OF THE BUILDING DESIGNER.

**CODE**

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING, THE ONTARIO BUILDING CODE, TPIC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

**HANDLING, INSTALLATION AND BRACING**

1. THE TRUSSES MUST BE HANDLED AND INSTALLED BY A QUALIFIED PROFESSIONAL AS PER THE SUPPLIED DOCUMENT TITLED INFORMATION FOR TRUSS INSTALLERS AND THE BCSI-B1 AND BCSI-B3 SUMMARY SHEETS.
2. THE COMPRESSION CHORDS ARE Laterally Braced by Continuous Rigid Diaphragm Sheathing or as Specified on the Drawing.
3. TEMPORARY AND PERMANENT BRACING MUST BE INSTALLED AS INDICATED ON THE TRUSS DRAWING AND ACCORDING TO THE BCSI-B1 AND BCSI-B3 SUMMARY SHEETS. BRACING FOR THE LATERAL STABILITY OF THE TRUSS IS TO BE PROVIDED BY THE BUILDING DESIGNER.
4. IT IS RECOMMENDED THAT A PROFESSIONAL ENGINEER'S ADVICE BE OBTAINED FOR THE BRACING OF TRUSSES SPANNING MORE THAN 12.37M (40'-7").

**LUMBER**

N. L. G. A. RULES

CHORDS SIZE

A - D 2x4 DRY

D - H 2x4 DRY

H - J 2x4 DRY

J - M 2x4 DRY

Y - B 2x8 DRY

N - L 2x8 DRY

Y - T 2x6 DRY

T - R 2x6 DRY

R - N 2x6 DRY

LUMBER

No.2

2100F 1.8E

2100F 1.8E

No.2

No.2

2100F 1.8E

2100F 1.8E

2100F 1.8E

2100F 1.8E

DESCR.

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

SPF

ALL WEBS

EXCEPT

B - X 2x4 DRY

O - L 2x4 DRY

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

JT TYPE PLATES

B TMVW-t MT20

C TMVW-t MT20

D TTWW-m MT20

E TMVW-t MT20

F TMVW-t MT20

G TMVW-w MT20

H TS-t MT20

I TMVW-t MT20

J TTWW-m MT20

K TMVW-t MT20

L TMVW-t MT20

N BMV1+p MT20

O BMVW-t MT20

P BMVW-t MT20

Q BMVW-t MT20

R BS-t MT18HS

S BMVWWW-t MT20

T BS-t MT18HS

U BMVW-t MT20

V BMVW-t MT20

W BMVW-t MT20

X BMVW-t MT20

Y BMV1+p MT20

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

FACTORED

GROSS REACTION

JT VERT

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N 4344

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FACTORED

GROSS REACTION

JT VERT

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FACTORED

GROSS REACTION

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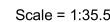
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IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



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MHP 23028  
2-10-12 11-0-12 3-1-4

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 12 08:40:00 2023 Page 1

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[M]

|                  |     |      |          |
|------------------|-----|------|----------|
| 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**

GIRDER TYPE: CPrimeHip  
SIDE SETBACK = 6-0-0  
END SETBACK = 6-0-0  
END WALL WIDTH = 5-8  
CORNER FRAMING TYPE: CONVENTIONAL  
END JACK TYPE: CONVENTIONAL  
APPLIED TO FRONT SIDE  
- ADDTL LOADS BASED ON 55 % OF GSL.

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

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

TOTAL LOAD CASES: (4)

| C H O R D S   |           |            |          |          | W E B S  |       |            |          |  |
|---------------|-----------|------------|----------|----------|----------|-------|------------|----------|--|
| MAX. FACTORED |           | FACTORED   |          |          | FACTORED |       |            |          |  |
| MEMB.         | FORCE     | VERT. LOAD | LC1      | MAX      | MAX.     | MEMB. | MAX. FORCE | MAX      |  |
|               | (LBS)     | (PLF)      | CSI (LC) | UNBRAC   |          |       | (LBS)      | CSI (LC) |  |
| FR-TO         |           | FROM TO    |          | LENGTH   | FR-TO    |       |            |          |  |
| A-B           | -2199 / 0 | -119.4     | -119.4   | 0.23 (1) | 4.32     | L-B   | -443 / 0   | 0.08 (1) |  |
| B-C           | -2241 / 0 | -119.4     | -119.4   | 0.23 (1) | 4.28     | B-K   | -44 / 10   | 0.02 (4) |  |
| C-D           | -1991 / 0 | -225.2     | -225.2   | 0.25 (1) | 4.46     | K-C   | 0 / 116    | 0.04 (4) |  |
| D-E           | -2242 / 0 | -119.4     | -119.4   | 0.23 (1) | 4.28     | C-J   | 0 / 2      | 0.00 (4) |  |
| E-F           | -2199 / 0 | -119.4     | -119.4   | 0.23 (1) | 4.32     | J-D   | 0 / 118    | 0.05 (4) |  |
| F-G           | 0 / 36    | -119.4     | -119.4   | 0.17 (1) | 10.00    | J-E   | -42 / 11   | 0.01 (4) |  |
| M-A           | -1690 / 0 | 0.0        | 0.0      | 0.19 (1) | 6.27     | I-E   | -444 / 0   | 0.08 (1) |  |
| H-F           | -1851 / 0 | 0.0        | 0.0      | 0.21 (1) | 6.03     | A-L   | 0 / 2054   | 0.51 (1) |  |
|               |           |            |          |          |          | I-F   | 0 / 2054   | 0.51 (1) |  |
| M-L           | 0 / 0     | -34.4      | -34.4    | 0.07 (4) | 10.00    |       |            |          |  |
| L-K           | 0 / 1980  | -34.4      | -34.4    | 0.40 (1) | 10.00    |       |            |          |  |
| K-J           | 0 / 1990  | -34.4      | -34.4    | 0.37 (1) | 10.00    |       |            |          |  |
| J-I           | 0 / 1980  | -34.4      | -34.4    | 0.40 (1) | 10.00    |       |            |          |  |
| I-H           | 0 / 0     | -34.4      | -34.4    | 0.08 (4) | 10.00    |       |            |          |  |

(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 (0.47")  
CALCULATED VERT. DEFL.(LL) = L/ 999 (0.04")  
ALLOWABLE DEFL.(TL)= L/360 (0.47")  
CALCULATED VERT. DEFL.(TL) = L/ 999 (0.08")

CSI: TC=0.25/0.97 (C-D:1), BC=0.40/0.97 (K-L:1), WB=0.51/0.97 (A-L:1), SSI=0.21/1.00 (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

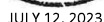
TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS MANUFACTURING PLANT .

| NAIL VALUES |           |     |       |     |         |      |
|-------------|-----------|-----|-------|-----|---------|------|
| PLATE       | GRIP(DRY) |     | SHEAR |     | SECTION |      |
|             | (PSI)     |     | (PLI) |     | (PLI)   |      |
|             | MAX       | MIN | MAX   | MIN | MAX     | MIN  |
| 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= 0.56 (F) (INPUT = 1.00 )

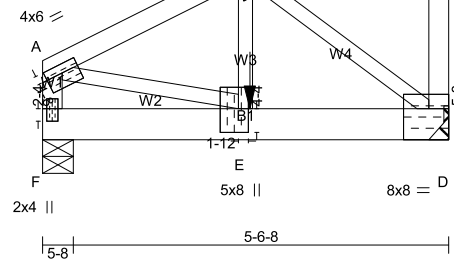


**READ ALL NOTES ON THIS PAGE AND ON THE  
ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
IS AN INTEGRAL PART OF THIS DRAWING AS IT  
CONTAINS SPECIFICATIONS AND CRITERIA USED  
IN THE DESIGN OF THIS COMPONENT.**





|            |            |          |     |             |          |
|------------|------------|----------|-----|-------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| IM0723-066 | G03        | 1        | 1   | TRUSS DESC. |          |



Scale = 1:34.0

TOTAL WEIGHT = 29 lb

**LUMBER**

N. L. G. A. RULES

| CHORDS           | SIZE    | LUMBER | DESCR. |
|------------------|---------|--------|--------|
| F - A            | 2x4 DRY | No.2   | SPF    |
| A - C            | 2x4 DRY | No.2   | SPF    |
| D - C            | 2x4 DRY | No.2   | SPF    |
| F - D            | 2x6 DRY | No.2   | SPF    |
| ALL WEBS         | 2x3 DRY | No.2   | SPF    |
| SEASONED LUMBER. |         |        |        |

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW-t  | MT20   | 4.0 | 6.0 | 1.50 | 3.00 |
| B  | TMVW-t  | MT20   | 5.0 | 5.0 | 2.00 | 1.75 |
| C  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| D  | BMVW1-t | MT20   | 8.0 | 8.0 | 5.50 | Edge |
| E  | BMVW1-t | MT20   | 5.0 | 8.0 | 4.25 | 1.75 |
| F  | 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 GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | UPLIFT   |
| F  | 1897                    | 0                               | 1897      | 0        |
| D  | 2295                    | 0                               | 2295      | 0        |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 3-8.

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | SNOW     | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|-----------|----------|-------|-----------|-------|---------|-------|
| F  | 1326      | 959 / 0  | 0 / 0 | 0 / 0     | 0 / 0 | 367 / 0 | 0 / 0 |
| D  | 1604      | 1161 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 443 / 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 = 4.08 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 LC1 MAX CSI (LC) | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
| FR-TO       |                           | FROM                      | TO                   |                      | FR-TO |                           |                      |
| F-A         | -1834 / 0                 | 0.0                       | 0.0 0.20 (1)         | 6.06                 | A-E   | 0 / 2080                  | 0.51 (1)             |
| A-B         | -2229 / 0                 | -238.9                    | -238.9 0.38 (1)      | 4.08                 | E-B   | 0 / 1894                  | 0.47 (1)             |
| B-C         | -23 / 0                   | -119.4                    | -119.4 0.23 (1)      | 6.25                 | B-D   | -2527 / 0                 | 0.62 (1)             |
| D-C         | -128 / 0                  | 0.0                       | 0.0 0.03 (1)         | 7.81                 |       |                           |                      |
| F-E         | 0 / 0                     | -36.5                     | -36.5 0.04 (4)       | 10.00                |       |                           |                      |
| E-D         | 0 / 2014                  | -421.2                    | -421.2 0.62 (1)      | 10.00                |       |                           |                      |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|-------|------|-------|------|-------|
| E  | 3-0-12 | -1219 | -1219 | ---  | 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**

GIRDER TYPE: CStdGirder  
 START DISTANCE = 3-0-12  
 START SPAN CARRIED = 14-2-0  
 END DISTANCE = 6-0-0  
 END SPAN CARRIED = 14-2-0  
 END WALL WIDTH = 5-8  
 APPLIED TO FRONT SIDE OF BOTTOM CHORD.  
 - ADDTL LOADS BASED ON 55 % OF GSL.

GIRDER TYPE: CPrimeHip  
 SIDE SETBACK = 0-0  
 END SETBACK = 6-0-0  
 END WALL WIDTH = 0-0  
 CORNER FRAMING TYPE: CONVENTIONAL  
 END JACK TYPE: CONVENTIONAL  
 APPLIED TO FRONT SIDE  
 - ADDTL LOADS BASED ON 55 % OF GSL.  
 LOADS APPLIED TO FIRST 3-0-12 OF SPAN MEASURED FROM THE LEFT.

\*\*\* NON STANDARD GIRDER \*\*\*  
 ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD CASES.

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 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=0.38/0.97 (A-B:1), BC=0.62/0.97 (D-E:1), WB=0.62/0.97 (B-D:1), SSI=0.42/1.00 (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.

CONTINUED ON PAGE 2



JULY 12, 2023

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   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|------------|------------|----------|-----|-------------|----------|
| IM0723-066 | G03        | 1        | 1   | TRUSS DESC. |          |

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 12 08:40:01 2023 Page 2  
 ID:QK 10m5p0LtfE2YVq0sg0dVW423K2F51173ozlplDjq UCqUl3dnmuqFWaphRUSyytNS

CORPORATION OF THE CITY OF OSHAWA  
 TRUE COPY  
 OF PERMIT PLANS  
 Nov 15 2023  
  
 PER: \_\_\_\_\_  
 CHIEF BUILDING OFFICIAL

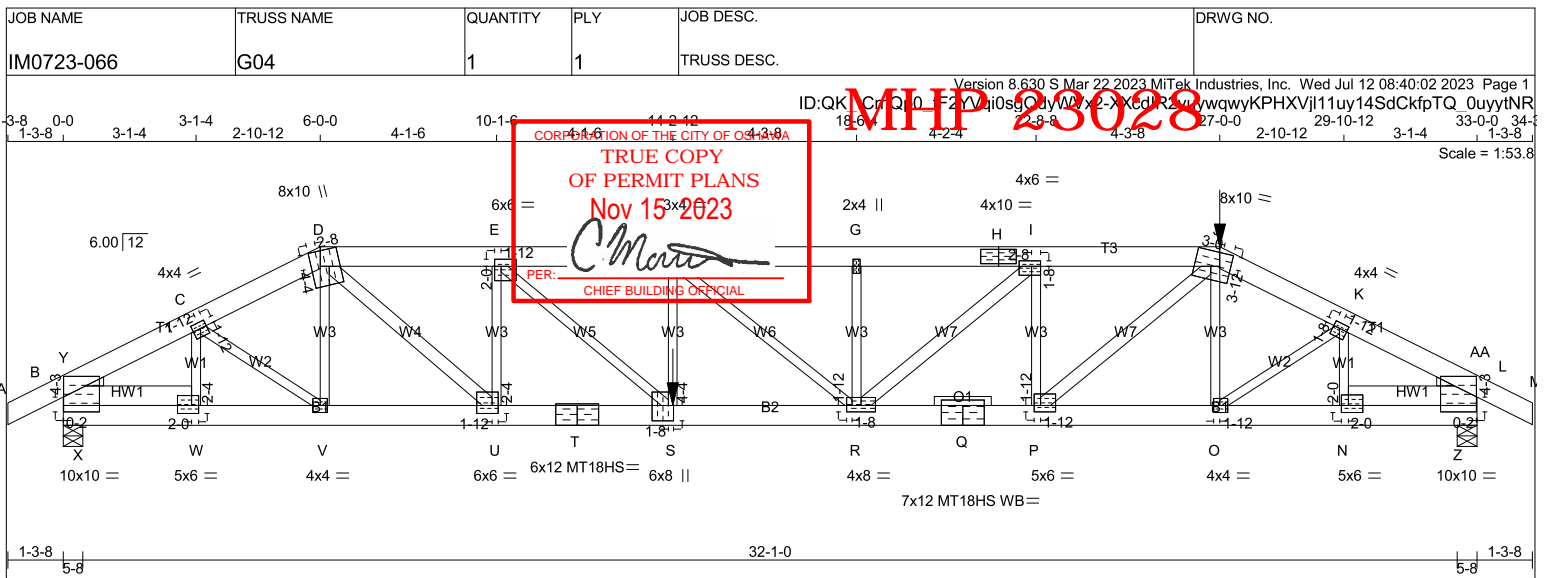
NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION  
 (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 650 371 1747 788 1987 1873  
 PLATE PLACEMENT TOL. = 0.250 inches  
 PLATE ROTATION TOL. = 5.0 Deg.  
 JSI GRIP= 0.89 (A) (INPUT = 0.90 )  
 JSI METAL= 0.73 (E) (INPUT = 1.00 )



JULY 12, 2023

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.



**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER         | DESCR. |
|--------|------|----------------|--------|
| A - D  | 2x6  | DRY 2100F 1.8E | SPF    |
| D - H  | 2x6  | DRY 2100F 1.8E | SPF    |
| H - J  | 2x6  | DRY 2100F 1.8E | SPF    |
| J - M  | 2x6  | DRY 2100F 1.8E | SPF    |
| B - T  | 2x6  | DRY 2100F 1.8E | SPF    |
| T - Q  | 2x6  | DRY 2100F 1.8E | SPF    |
| Q - L  | 2x6  | DRY 2100F 1.8E | SPF    |

**REINFORCING MEMBERS**

|     |     |     |      |     |
|-----|-----|-----|------|-----|
| HW1 | 2x6 | DRY | No.2 | SPF |
| HW2 | 2x6 | DRY | No.2 | SPF |

**ALL WEBS EXCEPT**

|       |     |     |      |     |
|-------|-----|-----|------|-----|
| D - U | 2x4 | DRY | No.2 | SPF |
| R - I | 2x4 | DRY | No.2 | SPF |
| P - J | 2x4 | DRY | No.2 | SPF |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W    | LEN  | Y    | X    |
|----|----------|--------|------|------|------|------|
| B  | TMBMW1-I | MT20   | 10.0 | 10.0 | 4.25 | 0.25 |
| C  | TMWW-t   | MT20   | 4.0  | 4.0  | 1.75 | 1.75 |
| D  | TTWW+m   | MT20   | 8.0  | 10.0 | 4.25 | 2.50 |
| E  | TMWW-t   | MT20   | 6.0  | 6.0  | 2.00 | 1.75 |
| F  | TMWW-t   | MT20   | 3.0  | 4.0  |      |      |
| G  | TMW+w    | MT20   | 2.0  | 4.0  |      |      |
| H  | TS-t     | MT20   | 4.0  | 10.0 |      |      |
| I  | TMWW-t   | MT20   | 4.0  | 6.0  | 1.50 | 2.50 |
| J  | TTWW-m   | MT20   | 8.0  | 10.0 | 3.75 | 3.00 |
| K  | TMWW-t   | MT20   | 4.0  | 4.0  | 1.50 | 1.75 |
| L  | TMBMW1-I | MT20   | 10.0 | 10.0 | 4.25 | 0.25 |
| N  | BMWW-t   | MT20   | 5.0  | 6.0  | 2.00 | 2.00 |
| O  | BMWW-t   | MT20   | 4.0  | 4.0  | 2.00 | 1.75 |
| P  | BMWW-t   | MT20   | 5.0  | 6.0  | 1.75 | 1.75 |
| Q  | BS-t     | MT18HS | 7.0  | 12.0 |      |      |
| R  | BMWWW-t  | MT20   | 4.0  | 8.0  | 1.75 | 1.50 |
| S  | BMWW-t   | MT20   | 6.0  | 8.0  | 4.25 | 1.50 |
| T  | BS-t     | MT18HS | 6.0  | 12.0 |      |      |
| U  | BMWW-t   | MT20   | 6.0  | 6.0  | 2.25 | 1.75 |
| V  | BMWW-t   | MT20   | 4.0  | 4.0  |      |      |
| W  | BMWW-t   | MT20   | 5.0  | 6.0  | 2.25 | 2.00 |

WB - INDICATES BLOCKING REQUIRED

**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 | HEEL WEDGE |
|---------|-------------------------|---------------------------------|-----------|----------|------------|
| JT VERT | 4434                    | 4434                            | 0         | 5-8      | 4-3        |
| B       | 4434                    | 4434                            | 0         | 5-8      | 4-3        |
| L       | 4928                    | 4928                            | 0         | 5-8      | 4-10       |

**UNFACTORED REACTIONS**

|    | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|----|-----------|-------------------------------|-------|-----------|-------|---------|-------|
| JT | COMBINED  | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| B  | 3096      | 2258 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 838 / 0 | 0 / 0 |
| L  | 3444      | 2494 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 949 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.83 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |               | WEBS  |                           |               |          |
|--------|---------------------------|---------------------------|---------------|-------|---------------------------|---------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CSI (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   | LENGTH        | FR-TO |                           |               |          |
| A-B    | 0 / 0                     | -119.4 -119.4             | 0.05 (1)      | 10.00 | W-C                       | -1166 / 0     | 0.20 (1) |
| B-Y    | -4721 / 0                 | -119.4 -119.4             | 0.11 (1)      | 4.74  | C-V                       | 0 / 927       | 0.23 (1) |
| Y-C    | -6246 / 0                 | -119.4 -119.4             | 0.14 (1)      | 4.20  | V-D                       | -414 / 0      | 0.10 (1) |
| C-D    | -7035 / 0                 | -119.4 -119.4             | 0.15 (1)      | 3.99  | D-U                       | 0 / 4690      | 0.83 (1) |
| D-E    | -9769 / 0                 | -119.4 -119.4             | 0.29 (1)      | 3.34  | U-E                       | -2995 / 0     | 0.73 (1) |
| E-F    | -12533 / 0                | -119.4 -119.4             | 0.43 (1)      | 2.84  | E-S                       | 0 / 3722      | 0.92 (1) |
| F-G    | -12024 / 0                | -225.2 -225.2             | 0.49 (1)      | 2.83  | S-F                       | -215 / 40     | 0.05 (1) |
| G-H    | -12024 / 0                | -225.2 -225.2             | 0.43 (1)      | 2.91  | F-R                       | -672 / 0      | 0.36 (1) |
| H-I    | -12024 / 0                | -225.2 -225.2             | 0.43 (1)      | 2.91  | R-G                       | -997 / 0      | 0.24 (1) |
| I-J    | -10176 / 0                | -225.2 -225.2             | 0.39 (1)      | 3.17  | R-I                       | 0 / 2469      | 0.44 (1) |
| J-K    | -7850 / 0                 | -119.4 -119.4             | 0.18 (1)      | 3.77  | P-I                       | -2624 / 0     | 0.64 (1) |
| K-AA   | -6967 / 0                 | -119.4 -119.4             | 0.17 (1)      | 3.98  | P-J                       | 0 / 4178      | 0.74 (1) |
| AA-L   | -5276 / 0                 | -119.4 -119.4             | 0.13 (1)      | 4.52  | O-J                       | -385 / 23     | 0.09 (1) |
| L-M    | 0 / 0                     | -119.4 -119.4             | 0.05 (1)      | 10.00 | O-K                       | 0 / 1041      | 0.26 (1) |
|        |                           |                           |               |       | N-K                       | -1261 / 0     | 0.21 (1) |
| B-X    | 0 / 2114                  | -18.2 -18.2               | 0.11 (1)      | 10.00 | X-Y                       | 0 / 56        | 0.00 (1) |
| X-W    | 0 / 2114                  | -18.2 -18.2               | 0.16 (1)      | 10.00 | Y-W                       | 0 / 3610      | 0.47 (1) |
| W-V    | 0 / 5548                  | -18.2 -18.2               | 0.34 (1)      | 10.00 | N-AA                      | 0 / 4026      | 0.52 (1) |
| V-U    | 0 / 6279                  | -18.2 -18.2               | 0.36 (1)      | 10.00 | Z-AA                      | 0 / 94        | 0.00 (1) |
| U-T    | 0 / 9769                  | -18.2 -18.2               | 0.63 (1)      | 10.00 |                           |               |          |
| T-S    | 0 / 9769                  | -18.2 -18.2               | 0.63 (1)      | 10.00 |                           |               |          |
| S-R    | 0 / 12533                 | -34.4 -34.4               | 0.78 (1)      | 10.00 |                           |               |          |
| R-Q    | 0 / 10176                 | -34.4 -34.4               | 0.60 (1)      | 10.00 |                           |               |          |
| Q-P    | 0 / 10176                 | -34.4 -34.4               | 0.60 (1)      | 10.00 |                           |               |          |
| P-O    | 0 / 7011                  | -34.4 -34.4               | 0.41 (1)      | 10.00 |                           |               |          |
| O-N    | 0 / 6186                  | -34.4 -34.4               | 0.38 (1)      | 10.00 |                           |               |          |
| N-Z    | 0 / 2356                  | -34.4 -34.4               | 0.17 (1)      | 10.00 |                           |               |          |
| Z-L    | 0 / 2356                  | -34.4 -34.4               | 0.12 (1)      | 10.00 |                           |               |          |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| J  | 27-0-0  | -367  | -367  | ---  | FRONT | VERT | TOTAL | ---  | C1    |
| S  | 14-2-12 | -1604 | -1604 | ---  | 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**

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

GIRDER TYPE: CPrimeHip  
 SIDE SETBACK = 6-0-0  
 END SETBACK = 6-0-0  
 END WALL WIDTH = 5-8  
 CORNER FRAMING TYPE: CONVENTIONAL  
 END JACK TYPE: CONVENTIONAL  
 APPLIED TO FRONT SIDE  
 - ADDTL LOADS BASED ON 55 % OF GSL.  
 LOADS APPLIED TO FIRST 18-9-4 OF SPAN  
 MEASURED FROM THE RIGHT.

\*\*\* 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 (1.10")  
 CALCULATED VERT. DEFL.(LL) = L/ 958 (0.41")  
 ALLOWABLE DEFL.(TL)= L/360 (1.10")  
 CALCULATED VERT. DEFL.(TL) = L/ 559 (0.71")

CSI: TC=0.49/0.97 (F-G:1), BC=0.78/0.97 (R-S:1),  
 WB=0.92/0.97 (E-S:1), SSI=0.36/1.00 (I-J: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.



READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
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CONTINUED ON PAGE 2



| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|------------|------------|----------|-----|-------------|----------|
| IM0723-066 | G04        | 1        | 1   | TRUSS DESC. |          |

Version 8.630 S Mar 22 2023 MiTek Industries, Inc. Wed Jul 12 08:40:02 2023 Page 2  
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CORPORATION OF THE CITY OF OSHAWA  
 TRUE COPY  
 OF PERMIT PLANS  
 Nov 15 2023  
  
 PER: \_\_\_\_\_  
 CHIEF BUILDING OFFICIAL

NAIL VALUES  
 PLATE GRIP(DRY) SHEAR SECTION  
 (PSI) (PLI) (PLI)  
 MAX MIN MAX MIN MAX MIN  
 MT20 650 371 1747 788 1987 1873  
 MT18HS 586 403 2455 1382 3163 3004

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (V) (INPUT = 0.90 )  
 JSI METAL= 0.99 (Q) (INPUT = 1.00 )



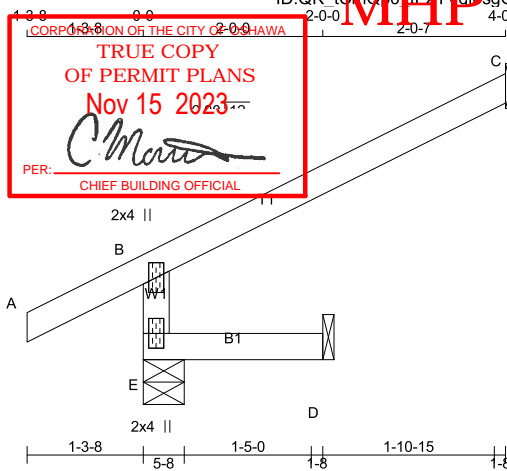
JULY 12, 2023

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 IN THE DESIGN OF THIS COMPONENT.





|            |            |          |     |             |          |
|------------|------------|----------|-----|-------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| IM0723-066 | J01        | 4        | 1   | TRUSS DESC. |          |



ID: QK tCnG 0 0 tE2 Y qU sg QdV W V2 - Xd dR yU w qwy KPHXV j l 11w W1 GQd Q7 f p TQ 0 uyyt NR

Scale = 1:25.7

TOTAL WEIGHT = 4 X 10 = 40 lb

**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**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQD BRG |
|----|-------------------------|---------------------------------|-----------|----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ     |
| E  | 483                     | 0                               | 483       | 0        |
| C  | 181                     | 0                               | 181       | 0        |
| D  | 16                      | 0                               | 16        | 0        |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. | COMPONENT REACTIONS |           |       |        |       |
|----|-----------|-----------|---------------------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW      | LIVE                | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E  | 333       | 270 / 0   | 0 / 0               | 0 / 0     | 0 / 0 | 63 / 0 | 0 / 0 |
| C  | 124       | 105 / 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: (4)

| C H O R D S |                           |                           |         | W E B S              |       |                           |                      |
|-------------|---------------------------|---------------------------|---------|----------------------|-------|---------------------------|----------------------|
| MEMB.       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX | MAX. UNBRACED LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
| FR-TO       |                           | FROM TO                   |         |                      | FR-TO |                           |                      |
| E-B         | -463 / 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         | -27 / 0                   | -119.4                    | -119.4  | 0.33 (1)             | 6.25  |                           |                      |
| E-D         | 0 / 0                     | -18.2                     | -18.2   | 0.02 (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 (0.19")  
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=0.33/0.97 (B-C); BC=0.02/0.97 (D-E);  
WB=0.00/0.97 (n/a:0); SSI=0.21/1.00 (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 (PLI) | SECTION (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= 0.26 (B) (INPUT = 0.90 )  
JSI METAL= 0.19 (B) (INPUT = 1.00 )



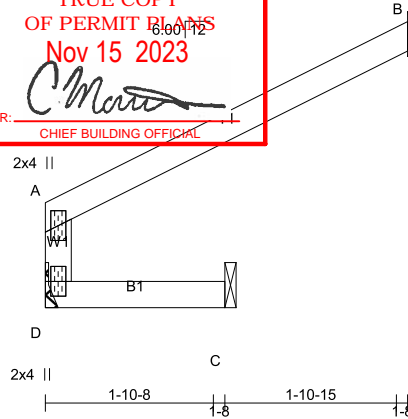
JULY 12, 2023

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   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| IM0723-066 | J01A       | 1        | 1   | TRUSS DESC. |          |

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TOTAL WEIGHT = 8 lb

| <u>LUMBER</u>         |      |     |        |        |
|-----------------------|------|-----|--------|--------|
| N. L. G. A. RULES     |      |     |        |        |
| CHORDS                | SIZE |     | LUMBER | DESCR. |
| D - A                 | 2x4  | DRY | No.2   | SPF    |
| A - B                 | 2x4  | DRY | No.2   | SPF    |
| D - C                 | 2x4  | DRY | No.2   | SPF    |
| 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 | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG MECHANICAL | REQRD BRG IN-SX |
|----|-------------------------|------|---------------------------------|------|----------------------|-----------------|
|    | VERT                    | HORZ | DOWN                            | HORZ |                      |                 |
| D  | 229                     | 0    | 229                             | 0    | 0                    |                 |
| B  | 212                     | 0    | 212                             | 0    | 1-8                  |                 |
| C  | 78                      | 0    | 78                              | 0    | 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 COMBINED | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|--------------------|-------------------------------|-------|-----------|-------|--------|-------|
|    |                    | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| D  | 159                | 123 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 36 / 0 | 0 / 0 |
| B  | 145                | 123 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 22 / 0 | 0 / 0 |
| C  | 55                 | 35 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 20 / 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 LC1 (LC) | MAX UNBRACED LENGTH (FR-TO) | MEMB. MAX. FACTORED FORCE (LBS) MAX CSI (LC) |
| D-A    | -270 / 0                  | 0.0                       | 0.0          | 0.14 (1)                    | 7.81   |
| A-B    | -13 / 0                   | -119.4                    | -119.4       | 0.24 (1)                    | 6.25   |
| D-C    | 0 / 0                     | -18.2                     | -18.2        | 0.16 (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 (0.01")

CSI: TC=0.24/0.97 (A-B:1) , BC=0.16/0.97 (C-D:1) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.19/1.00 (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)      |
|-------|-----------|-------------|--------------------|
|       | 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= 0.15 (A) (INPUT = 0.90 )  
JSI METAL= 0.11 (A) (INPUT = 1.00 )



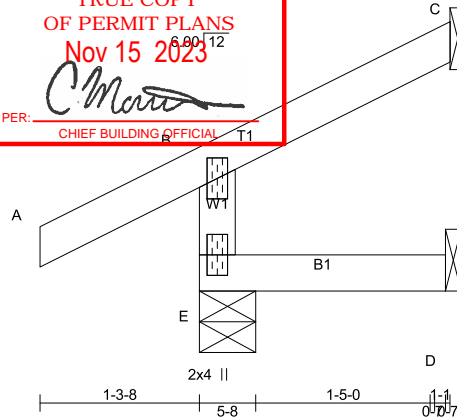
JULY 12, 2023

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| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|------------|------------|----------|-----|-------------|----------|
| IM0723-066 | J02        | 4        | 1   | TRUSS DESC. |          |

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Scale = 1:18.7

TOTAL WEIGHT = 4 X 7 = 30 lb

| LUMBER            |      |        |          |
|-------------------|------|--------|----------|
| N. L. G. A. RULES | 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**

|    | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |          |
| JT |                         |      |                                 |      |           |          |
| E  | 334                     | 0    | 334                             | 0    | 5-8       | 1-8      |
| C  | 92                      | 0    | 92                              | 0    | 1-8       | 1-8      |
| D  | 16                      | 0    | 18                              | 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 |       |           |       |        |       |
|----|-----------|-------------------------------|-------|-----------|-------|--------|-------|
|    | COMBINED  | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| E  | 230       | 183 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 48 / 0 | 0 / 0 |
| C  | 63        | 54 / 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 (PLF) | MAX LC1 MAX UNBRACED LENGTH | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX LC1 MAX UNBRACED LENGTH |  |
| FR-TO       |                           | FROM TO                   |                             | FR-TO   |                           |                             |  |
| E-B         | -313 / 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         | -13 / 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=0.11/1.00 (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) (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= 0.18 (B) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )



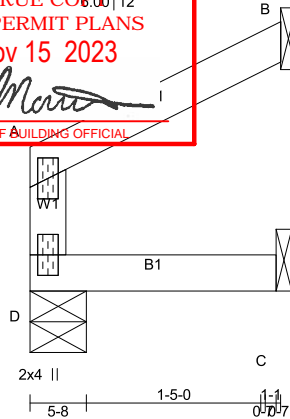
JULY 12, 2023

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|            |            |          |     |             |          |
|------------|------------|----------|-----|-------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
| IM0723-066 | J02A       | 1        | 1   | TRUSS DESC. |          |

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TOTAL WEIGHT = 6 lb

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

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 | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQRD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ |           |           |
| D  | 140                     | 0    | 140                             | 0    | 5-8       | 1-8       |
| B  | 113                     | 0    | 113                             | 0    | 1-8       | 1-8       |
| C  | 27                      | 0    | 27                              | 0    | 1-8       | 1-8       |

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

##### UNFACTORED REACTIONS

| JT | 1ST LCASE<br>COMBINED | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|----|-----------------------|-------------------------------|-------|-----------|-------|--------|-------|
|    |                       | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| D  | 98                    | 71 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 27 / 0 | 0 / 0 |
| B  | 77                    | 65 / 0                        | 0 / 0 | 0 / 0     | 0 / 0 | 12 / 0 | 0 / 0 |
| C  | 21                    | 6 / 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 LC1 MAX CSI (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO |
| FR-TO       |                           |                           |                      |                            | FR-TO |                           |                            |
| D - A       | -130 / 0                  | 0.0                       | 0.0                  | 0.02 (1)                   | 7.81  |                           |                            |
| A - B       | -4 / 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=0.09/1.00 (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) |
|-------|-----------|-------------|---------------|
|       | MAX       | MIN         | MAX           |
| MT20  | 650       | 371         | 1747          |

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 )



JULY 12, 2023

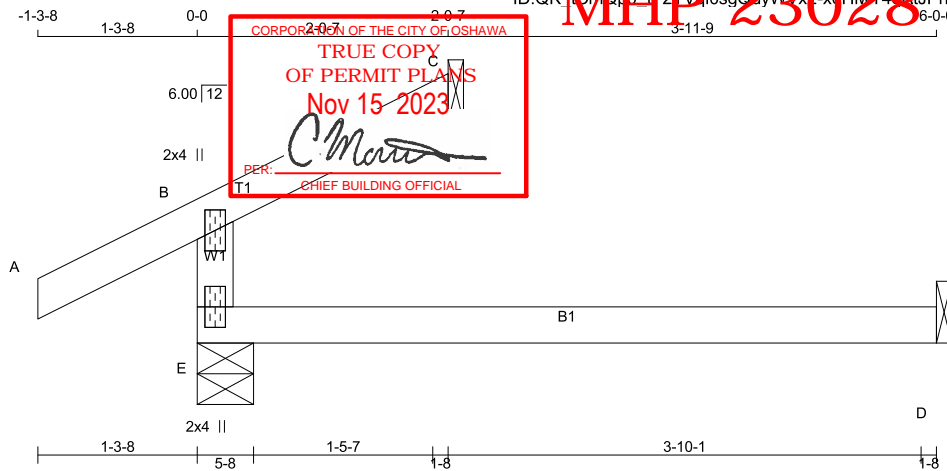
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| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|------------|------------|----------|-----|-------------|----------|
| IM0723-066 | J03        | 3        | 1   | TRUSS DESC. |          |

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Scale = 1:18.7

TOTAL WEIGHT = 3 X 12 = 36 lb

**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**

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| E  | 378                     | 0                               | 378       | 0         |
| C  | 92                      | 0                               | 92        | 0         |
| D  | 45                      | 0                               | 51        | 0         |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|-----------|-------------------------------|------------|-------|--------|-------|
| E  | 266       | 183 / 0                       | 0 / 0      | 0 / 0 | 83 / 0 | 0 / 0 |
| C  | 63        | 54 / 0                        | 0 / 0      | 0 / 0 | 9 / 0  | 0 / 0 |
| D  | 36        | 0 / 0                         | 0 / 0      | 0 / 0 | 36 / 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)

| C H O R D S |                           |                           |              | W E B S              |       |                           |              |
|-------------|---------------------------|---------------------------|--------------|----------------------|-------|---------------------------|--------------|
| 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 |                           |              |
| E-B         | -313 / 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         | -13 / 0                   | -119.4                    | -119.4       | 0.08 (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/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=0.16/0.97 (A-B:1), BC=0.13/0.97 (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) (PSI) | SHEAR (PLI) | SECTION (PLI) |
|-------|-----------------|-------------|---------------|
|       | MAX             | MIN         | MAX           |
| MT20  | 650             | 371         | 1747          |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.18 (B) (INPUT = 0.90 )  
JSI METAL= 0.13 (B) (INPUT = 1.00 )

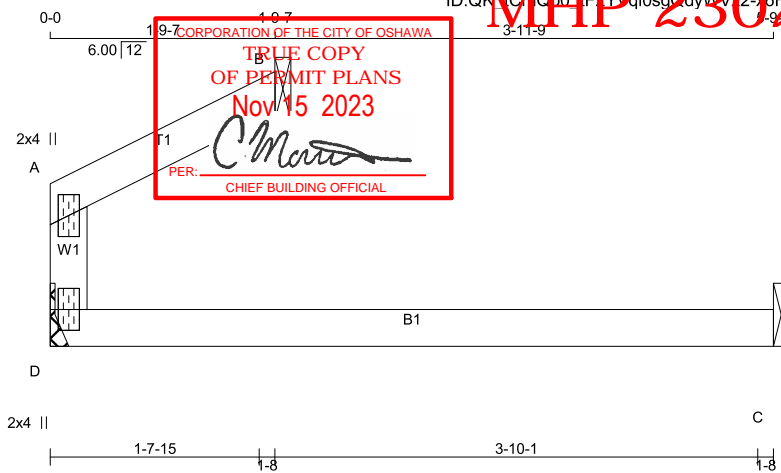


JULY 12, 2023

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| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | DRWG NO. |
|------------|------------|----------|-----|-------------|----------|
| IM0723-066 | J03A       | 2        | 1   | TRUSS DESC. |          |



TOTAL WEIGHT = 2 X 10 = 20 lb

| LUMBER            |      |        |        |     |
|-------------------|------|--------|--------|-----|
| N. L. G. A. RULES | SIZE | LUMBER | DESCR. |     |
| D - A             | 2x4  | DRY    | No.2   | SPF |
| A - B             | 2x4  | DRY    | No.2   | SPF |
| D - C             | 2x4  | DRY    | No.2   | SPF |

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 | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
|    | VERT                    | HORZ                            | DOWN      | HORZ      |
| D  | 147                     | 0                               | 147       | 0         |
| B  | 124                     | 0                               | 124       | 0         |
| C  | 47                      | 0                               | 51        | 0         |

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 COMBINED | MAX./MIN. SNOW | MIN. LIVE | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|--------------------|----------------|-----------|------------|-------|--------|-------|
| D  | 105                | 64 / 0         | 0 / 0     | 0 / 0      | 0 / 0 | 41 / 0 | 0 / 0 |
| B  | 88                 | 59 / 0         | 0 / 0     | 0 / 0      | 0 / 0 | 28 / 0 | 0 / 0 |
| C  | 37                 | 1 / 0          | 0 / 0     | 0 / 0      | 0 / 0 | 36 / 0 | 0 / 0 |

**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. FACTORED VERT. LOAD (LC) | MAX. FACTORED UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
| FR-TO       |                           | FROM                      | TO                            |                                    | FR-TO |                           |                               |
| D-A         | -89 / 10                  | 0.0                       | 0.0                           | 0.09 (4)                           | 7.81  |                           |                               |
| A-B         | 0 / 11                    | -119.4                    | -119.4                        | 0.10 (4)                           | 10.00 |                           |                               |
| D-C         | 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/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 (0.04")

CSI: TC=0.10/0.97 (A-B:4) , BC=0.13/0.97 (C-D:4) ,  
WB=0.00/0.97 (n/a:0) , SSI=0.09/1.00 (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) | (PLI)   |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.05 (A) (INPUT = 0.90 )  
JSI METAL= 0.04 (A) (INPUT = 1.00 )



JULY 12, 2023

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