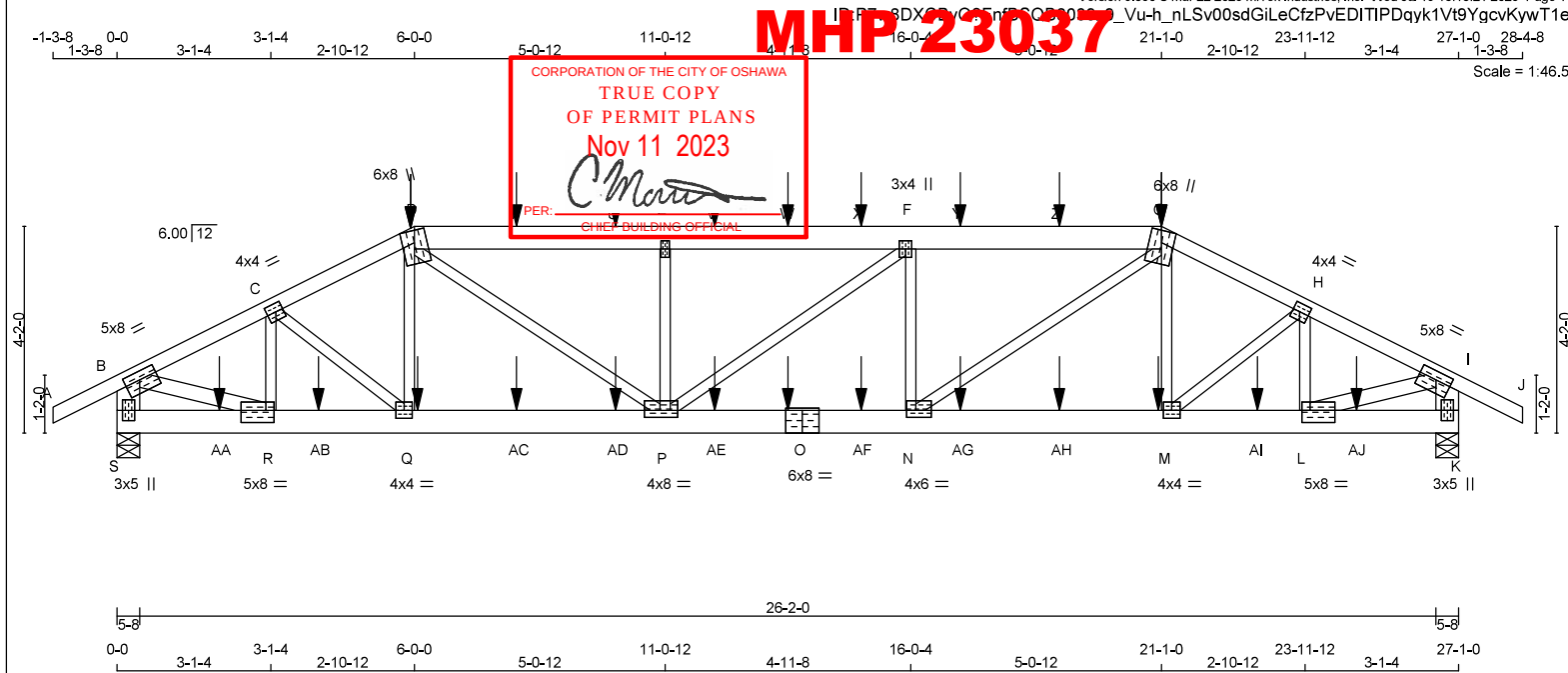


|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | G01        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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TOTAL WEIGHT = 136 lb

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - D  | 2x4  | DRY No.2 |
| D - G  | 2x6  | DRY No.2 |
| G - J  | 2x4  | DRY No.2 |
| S - B  | 2x6  | DRY No.2 |
| K - I  | 2x6  | DRY No.2 |
| S - O  | 2x6  | DRY No.2 |
| O - K  | 2x6  | DRY No.2 |

|          |     |          |
|----------|-----|----------|
| ALL WEBS | 2x3 | DRY No.2 |
| EXCEPT   |     |          |
| B - R    | 2x4 | DRY No.2 |
| L - I    | 2x4 | DRY No.2 |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMWWH   | MT20   | 5.0 | 8.0 | 2.00 | 3.75 |
| C  | TMWWH   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| D  | TMWWH+m | MT20   | 6.0 | 8.0 | Edge |      |
| E  | TMWWH   | MT20   | 2.0 | 4.0 |      |      |
| F  | TMWWH+t | MT20   | 3.0 | 4.0 |      |      |
| G  | TMWWH+m | MT20   | 6.0 | 8.0 | Edge |      |
| H  | TMWWH   | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| I  | TMWWH   | MT20   | 5.0 | 8.0 | 2.00 | 3.75 |
| K  | BMV1+p  | MT20   | 3.0 | 5.0 |      |      |
| L  | BMWWH   | MT20   | 5.0 | 8.0 | 3.00 | 2.00 |
| M  | BMWWH   | MT20   | 4.0 | 4.0 |      |      |
| N  | BMWWH   | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |
| O  | BS4     | MT20   | 6.0 | 8.0 |      |      |
| P  | BMWWH   | MT20   | 4.0 | 8.0 | 1.75 | 3.75 |
| Q  | BMWWH   | MT20   | 4.0 | 4.0 |      |      |
| R  | BMWWH   | MT20   | 5.0 | 8.0 | 3.00 | 2.00 |
| S  | BMV1+p  | MT20   | 3.0 | 5.0 |      |      |

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 | REQ'D |
|----|----------------|------------------|-------|-------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG   |
| JT | VERT           | HORZ             | DOWN  | HORZ  |
| S  | 3335           | 0                | 3335  | 0     |
| K  | 3335           | 0                | 3335  | 0     |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS       |
|----|----------|-------------------------------------|
|    | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL |
| JT | 2329     | 1694 / 0                            |
| S  | 2329     | 1694 / 0                            |
| K  | 2329     | 1694 / 0                            |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.73 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                               |              | WEBS               |       |                           |              |
|--------|---------------------------|-------------------------------|--------------|--------------------|-------|---------------------------|--------------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) | MAX CSI (LC) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX CSI (LC) |
| FR-TO  |                           | FROM TO                       |              |                    | FR-TO |                           |              |
| A-B    | 0 / 36                    | -119.4                        | -119.4       | 0.17 (1)           | 10.00 | R-C                       | -1021 / 0    |
| B-C    | -4353 / 0                 | -119.4                        | -119.4       | 0.43 (1)           | 2.96  | C-Q                       | 0 / 638      |
| C-D    | -4905 / 0                 | -119.4                        | -119.4       | 0.46 (1)           | 2.73  | Q-D                       | -171 / 75    |
| D-T    | -6108 / 0                 | -119.4                        | -119.4       | 0.59 (1)           | 2.94  | D-P                       | 0 / 2123     |
| T-U    | -6108 / 0                 | -119.4                        | -119.4       | 0.59 (1)           | 2.94  | P-E                       | -1116 / 0    |
| U-E    | -6108 / 0                 | -119.4                        | -119.4       | 0.59 (1)           | 2.94  | F-E                       | -19 / 0      |
| E-V    | -6107 / 0                 | -119.4                        | -119.4       | 0.56 (1)           | 2.99  | N-G                       | -1118 / 0    |
| V-W    | -6107 / 0                 | -119.4                        | -119.4       | 0.56 (1)           | 2.99  | F-G                       | 0 / 2143     |
| W-X    | -6107 / 0                 | -119.4                        | -119.4       | 0.56 (1)           | 2.99  | M-G                       | -179 / 74    |
| X-F    | -6107 / 0                 | -119.4                        | -119.4       | 0.56 (1)           | 2.99  | M-H                       | 0 / 634      |
| F-Y    | -6123 / 0                 | -119.4                        | -119.4       | 0.58 (1)           | 2.95  | L-H                       | -1017 / 0    |
| Y-Z    | -6123 / 0                 | -119.4                        | -119.4       | 0.58 (1)           | 2.95  | B-R                       | 0 / 4024     |
| Z-G    | -6123 / 0                 | -119.4                        | -119.4       | 0.58 (1)           | 2.95  | L-I                       | 0 / 4026     |
| G-H    | -4903 / 0                 | -119.4                        | -119.4       | 0.46 (1)           | 2.74  |                           |              |
| H-I    | -4355 / 0                 | -119.4                        | -119.4       | 0.43 (1)           | 2.96  |                           |              |
| I-J    | 0 / 36                    | -119.4                        | -119.4       | 0.17 (1)           | 10.00 |                           |              |
| S-B    | -3245 / 0                 | 0.0                           | 0.0          | 0.23 (1)           | 5.76  |                           |              |
| K-L    | -3247 / 0                 | 0.0                           | 0.0          | 0.23 (1)           | 5.76  |                           |              |

|       |          |       |       |          |       |
|-------|----------|-------|-------|----------|-------|
| S-AA  | 0 / 0    | -18.2 | -18.2 | 0.12 (1) | 10.00 |
| AA-R  | 0 / 0    | -18.2 | -18.2 | 0.12 (1) | 10.00 |
| R-AB  | 0 / 3905 | -18.2 | -18.2 | 0.63 (1) | 10.00 |
| AB-Q  | 0 / 3905 | -18.2 | -18.2 | 0.63 (1) | 10.00 |
| Q-AC  | 0 / 4400 | -18.2 | -18.2 | 0.65 (1) | 10.00 |
| AC-AD | 0 / 4400 | -18.2 | -18.2 | 0.65 (1) | 10.00 |
| AD-P  | 0 / 4400 | -18.2 | -18.2 | 0.65 (1) | 10.00 |
| P-AE  | 0 / 6122 | -18.2 | -18.2 | 0.91 (1) | 10.00 |
| AE-O  | 0 / 6122 | -18.2 | -18.2 | 0.91 (1) | 10.00 |
| O-AF  | 0 / 6122 | -18.2 | -18.2 | 0.91 (1) | 10.00 |
| AF-N  | 0 / 6122 | -18.2 | -18.2 | 0.91 (1) | 10.00 |
| N-AG  | 0 / 4399 | -18.2 | -18.2 | 0.63 (1) | 10.00 |
| AG-AH | 0 / 4399 | -18.2 | -18.2 | 0.63 (1) | 10.00 |
| AH-M  | 0 / 4399 | -18.2 | -18.2 | 0.63 (1) | 10.00 |
| M-AI  | 0 / 3906 | -18.2 | -18.2 | 0.62 (1) | 10.00 |
| AI-L  | 0 / 3906 | -18.2 | -18.2 | 0.62 (1) | 10.00 |
| L-AJ  | 0 / 0    | -18.2 | -18.2 | 0.12 (1) | 10.00 |
| AJ-K  | 0 / 0    | -18.2 | -18.2 | 0.12 (1) | 10.00 |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1  | MAX. | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|------|------|------|-------|------|-------|------|-------|
| D  | 6-0-0   | -418 | -418 | —    | FRONT | VERT | TOTAL | —    | C1    |
| G  | 21-1-0  | -418 | -418 | —    | FRONT | VERT | TOTAL | —    | C1    |
| M  | 21-0-0  | -22  | -22  | —    | FRONT | VERT | TOTAL | —    | C1    |
| O  | 13-6-8  | -22  | -22  | —    | FRONT | VERT | TOTAL | —    | C1    |
| Q  | 6-0-12  | -22  | -22  | —    | FRONT | VERT | TOTAL | —    | C1    |
| T  | 8-0-12  | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| U  | 10-0-12 | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| V  | 12-0-12 | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| W  | 13-6-8  | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| X  | 15-0-4  | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| Y  | 17-0-4  | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |
| Z  | 19-0-4  | -102 | -102 | —    | FRONT | VERT | TOTAL | —    | C1    |

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

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

**SPACING = 24.0 IN. C/C**LOADING IN FLAT SECTION BASED ON A SLOPE OF  
2.00/12 MINIMUM\*\*\* NON STANDARD GIRDER \*\*\*  
ADDTL USER-DEFINED LOADS APPLIED TO ALL LOAD  
CASES.THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL  
BUILDING REQUIREMENTS OF PART 9, NBCC 2015THIS DESIGN COMPLIES WITH:  
- PART 9 OF CBC 2018, NBC-2019AE  
- PART 9 OF OBC 2012 (2019 AMENDMENT)  
- CSA 086-14  
- TPIC 2014(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.22")  
ALLOWABLE DEFL.(TL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/842 (0.39")CSI: TC=0.59/0.97 (D-E-1), BC=0.91/0.97 (N-P-1),  
WB=0.71/0.97 (L-I-1), SSI=0.37/1.00 (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 HEELS OFF

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= 0.90 (L) (INPUT = 0.90)  
JSI METAL = 0.97 (O) (INPUT = 1.00)

CONTINUED ON PAGE 2



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. |
| NE0723-123 | G01        | 1        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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MHP 23037

| SPECIFIED CONCENTRATED LOADS (LBS) |        |    |            | OSHAWA |      |       |      |
|------------------------------------|--------|----|------------|--------|------|-------|------|
| JT                                 | LOC.   | LC | TRUCK COPY | FACE   | DIR. | TYPE  | HEEL |
| AA                                 | 2-0-12 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AB                                 | 2-0-12 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AC                                 | 2-0-12 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AD                                 | 2-0-12 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AE                                 | 2-0-12 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AF                                 | 5-0-4  | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AG                                 | 7-0-4  | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AH                                 | 9-0-4  | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AI                                 | 13-0-4 | 22 | 22         | FRONT  | VERT | TOTAL | —    |
| AJ                                 | 15-0-4 | 22 | 22         | FRONT  | VERT | TOTAL | —    |

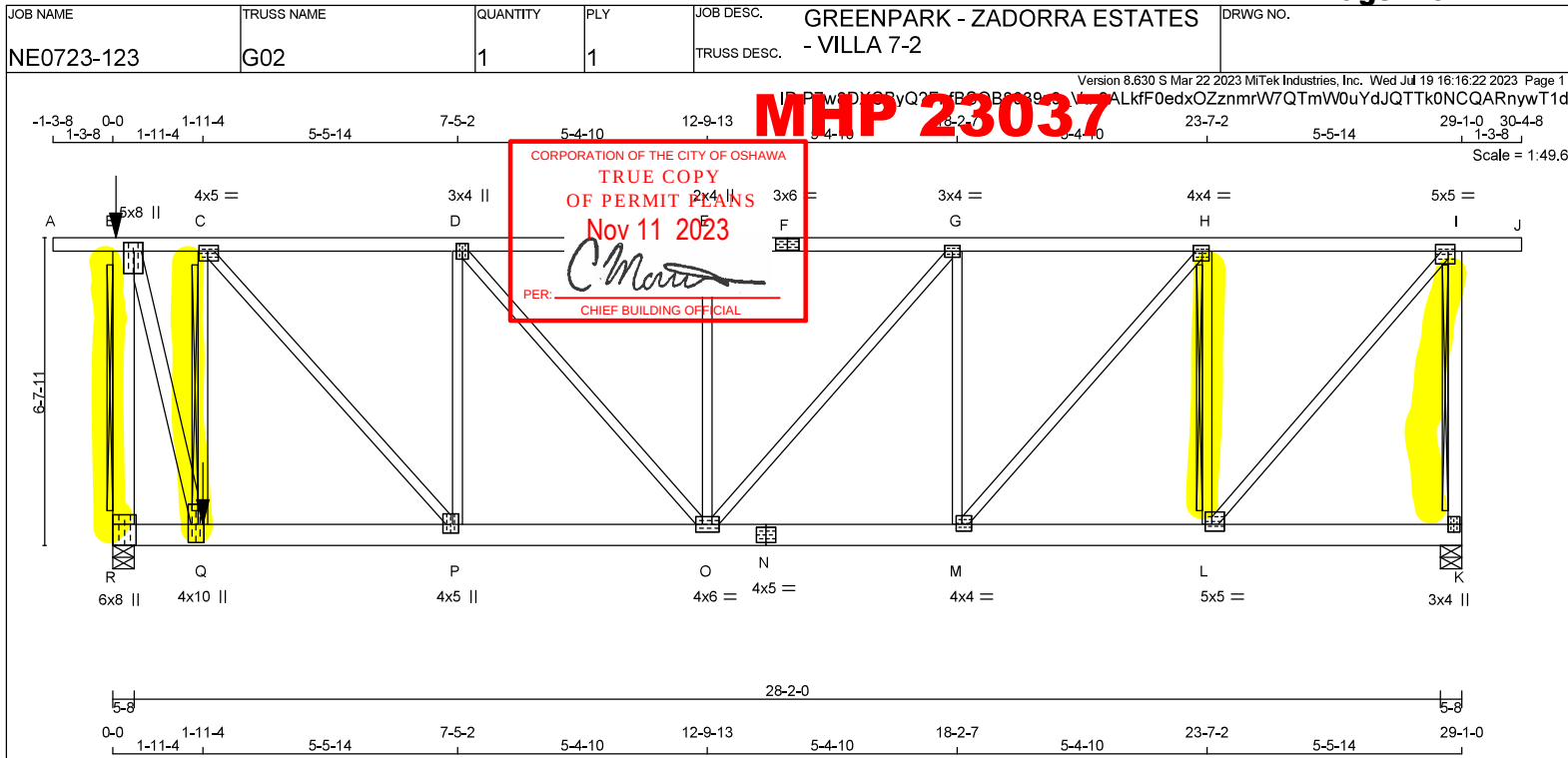
**CONNECTION REQUIREMENTS**

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



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





**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|-------------------|--------|------|--------|
| R - B             | 2x6    | DRY  | No.2   |
| C - TMVW+P        | 2x4    | DRY  | No.2   |
| A - F             | 2x4    | DRY  | No.2   |
| K - I             | 2x4    | DRY  | No.2   |
| R - N             | 2x6    | DRY  | No.2   |
| N - K             | 2x6    | DRY  | No.2   |

ALL WEBS 2x3 DRY No.2  
EXCEPT  
B - Q 2x4 DRY No.2

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN  | Y    | X    |
|----|--------|--------|-----|------|------|------|
| B  | TMVW+P | MT20   | 5.0 | 8.0  | 2.25 | 2.25 |
| C  | TMVW+H | MT20   | 4.0 | 5.0  | 1.50 | 2.25 |
| D  | TMVW+H | MT20   | 3.0 | 4.0  |      |      |
| E  | TMVW+H | MT20   | 2.0 | 4.0  |      |      |
| F  | TS+I   | MT20   | 3.0 | 6.0  |      |      |
| G  | TMVW+H | MT20   | 3.0 | 4.0  |      |      |
| H  | TMVW+H | MT20   | 4.0 | 4.0  | 1.50 | 1.75 |
| I  | TMVW+H | MT20   | 5.0 | 5.0  | 1.75 | 1.75 |
| K  | BMV1+P | MT20   | 3.0 | 4.0  | 2.00 |      |
| L  | BMVW+H | MT20   | 5.0 | 5.0  | 1.75 | 1.75 |
| M  | BMVW+H | MT20   | 4.0 | 4.0  | 1.75 | 1.50 |
| N  | BS+I   | MT20   | 4.0 | 5.0  |      |      |
| O  | BMVW+H | MT20   | 4.0 | 6.0  |      |      |
| P  | BMVW+H | MT20   | 4.0 | 5.0  | 2.25 | 1.50 |
| Q  | BMVW+H | MT20   | 4.0 | 10.0 | 4.75 | 1.50 |
| R  | BMV1+H | MT20   | 6.0 | 8.0  | 5.50 |      |

**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     |
| R  | 4262                    | 0                               | 4262      | 0        |
| K  | 2306                    | 0                               | 2306      | 0        |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----|----------|-------------------------------|
| JT | COMBINED | SNOW                          |
| R  | 2974     | 2177 / 0                      |
| K  | 1609     | 1179 / 0                      |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.36 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT B-R, I-K, C-Q, H-L

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) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |  |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |  |
| R-B    | -4165 / 0                 | 0.0 0.0 0.73 (1)          | 7.81                      | B-Q   | 0 / 4160                  | 0.74 (1)                  |  |
| A-B    | 0 / 0                     | -119.4 -119.4 0.15 (1)    | 10.00                     | Q-C   | -1784 / 0                 | 0.55 (1)                  |  |
| B-C    | -1229 / 0                 | -119.4 -119.4 0.30 (1)    | 5.33                      | C-P   | 0 / 1690                  | 0.42 (1)                  |  |
| C-D    | -2343 / 0                 | -119.4 -119.4 0.66 (1)    | 3.65                      | P-D   | -1116 / 0                 | 0.78 (1)                  |  |
| D-E    | -2717 / 0                 | -119.4 -119.4 0.71 (1)    | 3.36                      | D-O   | 0 / 573                   | 0.14 (1)                  |  |
| E-F    | -2717 / 0                 | -119.4 -119.4 0.63 (1)    | 3.50                      | O-E   | -637 / 0                  | 0.44 (1)                  |  |
| F-G    | -2717 / 0                 | -119.4 -119.4 0.63 (1)    | 3.50                      | O-G   | 0 / 365                   | 0.09 (1)                  |  |
| G-H    | -2479 / 0                 | -119.4 -119.4 0.76 (1)    | 3.36                      | M-G   | -899 / 0                  | 0.62 (1)                  |  |
| H-I    | -1617 / 0                 | -119.4 -119.4 0.65 (1)    | 4.20                      | M-H   | 0 / 1322                  | 0.33 (1)                  |  |
| I-J    | 0 / 0                     | -119.4 -119.4 0.15 (1)    | 10.00                     | L-H   | -1737 / 0                 | 0.54 (1)                  |  |
| K-I    | -2260 / 0                 | 0.0 0.0 0.54 (1)          | 7.81                      | L-I   | 0 / 2453                  | 0.61 (1)                  |  |
| R-Q    | 0 / 0                     | -18.2 -18.2 0.11 (1)      | 10.00                     |       |                           |                           |  |
| Q-P    | 0 / 1229                  | -18.2 -18.2 0.28 (1)      | 10.00                     |       |                           |                           |  |
| P-O    | 0 / 2343                  | -18.2 -18.2 0.35 (1)      | 10.00                     |       |                           |                           |  |
| O-N    | 0 / 2479                  | -18.2 -18.2 0.38 (1)      | 10.00                     |       |                           |                           |  |
| N-M    | 0 / 2479                  | -18.2 -18.2 0.38 (1)      | 10.00                     |       |                           |                           |  |
| M-L    | 0 / 1617                  | -18.2 -18.2 0.25 (1)      | 10.00                     |       |                           |                           |  |
| L-K    | 0 / 0                     | -18.2 -18.2 0.06 (4)      | 10.00                     |       |                           |                           |  |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1   | MAX.  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|-------|------|-------|------|-------|
| B  | 0-12   | -11   | -11   | -    | TOP   | VERT | TOTAL | -    | C1    |
| Q  | 1-11.4 | -1562 | -1562 | -    | 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:**

|            |    |      |      |     |
|------------|----|------|------|-----|
| TOT CH.    | LL | =    | 34.8 | PSF |
|            | DL | =    | 6.0  | PSF |
| BOT CH.    | LL | =    | 0.0  | PSF |
|            | DL | =    | 7.3  | PSF |
| TOTAL LOAD | =  | 48.1 | PSF  |     |

SPACING = 24.0 IN. C/C

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

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

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.15")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.25")

CSI: TC=0.78/0.97 (G-H-1), BC=0.38/0.97 (M-O-1),  
WB=0.78/0.97 (D-P-1), SSI=0.34/1.0 (H-I-1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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 (N) (INPUT = 1.00)

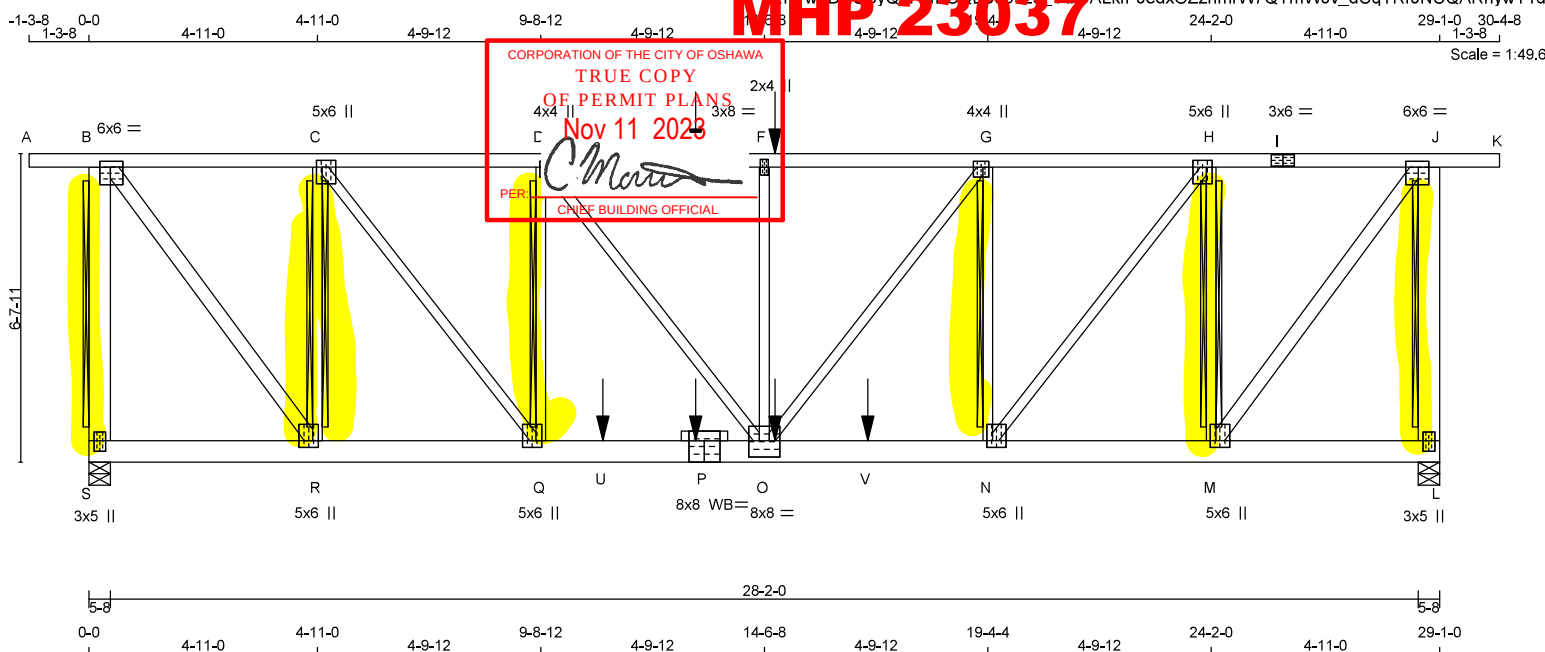


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | G03        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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TOTAL WEIGHT = 175 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     | DESCR. |
|-------------------|--------|------|------------|--------|
| S - B             | 2x6    | DRY  | No.2       | SPF    |
| A - E             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| E - I             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| I - K             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| L - J             | 2x6    | DRY  | No.2       | SPF    |
| S - P             | 2x6    | DRY  | 2100F 1.8E | SPF    |
| P - L             | 2x6    | DRY  | 2100F 1.8E | SPF    |
| ALL WEBS EXCEPT   | 2x4    | DRY  | No.2       | SPF    |
| B - R             | 2x4    | DRY  | No.2       | SPF    |
| M - J             | 2x4    | DRY  | No.2       | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT TYPE    | PLATES | W    | LEN | Y   | X         |
|------------|--------|------|-----|-----|-----------|
| B          | TMVW-4 | MT20 | 6.0 | 6.0 | 1.50 2.75 |
| C          | TMVW-4 | MT20 | 5.0 | 6.0 | 1.75 1.50 |
| D          | TMVW-4 | MT20 | 4.0 | 4.0 | 1.50 1.50 |
| E          | TS-4   | MT20 | 3.0 | 8.0 |           |
| F          | TMVW-4 | MT20 | 2.0 | 4.0 |           |
| G          | TMVW-4 | MT20 | 4.0 | 4.0 | 1.50 1.50 |
| H          | TMVW-4 | MT20 | 5.0 | 6.0 | 1.75 1.50 |
| I          | TS-4   | MT20 | 3.0 | 6.0 |           |
| J          | TMVW-4 | MT20 | 6.0 | 6.0 | 1.50 2.75 |
| L          | BMV1+p | MT20 | 3.0 | 5.0 | 2.75 1.50 |
| M, N, Q, R |        |      |     |     |           |
| M          | BMVW-4 | MT20 | 5.0 | 6.0 | 1.75 1.50 |
| O          | BMVW-4 | MT20 | 8.0 | 8.0 | 4.25 4.00 |
| P          | BS-4   | MT20 | 8.0 | 8.0 |           |
| S          | BMV1+p | MT20 | 3.0 | 5.0 | 2.75 1.50 |

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 | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| S  | 3804                    | 0                               | 3804      | 0         |
| L  | 3745                    | 0                               | 3745      | 0         |

**UNFACTORED REACTIONS**

|    | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|----|-----------|-------------------------------|-------|------------|-------|---------|-------|
| JT | COMBINED  | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| S  | 2652      | 1955 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 698 / 0 | 0 / 0 |
| L  | 2611      | 1924 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 688 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.30 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT B-S, J-L, D-Q, G-N  
2x4 DRY SPF No.2 I-BRACE AT C-R, I-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)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) | MAX. FACTORED VERT. LOAD (LBS) |
|-------|---------------------------|---------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| FR-TO |                           |                           |                                |                                |                                |                                |                                |
| S-B   | -3762 / 0                 | 0.0                       | 0.0                            | 0.66 (1)                       | 7.81                           | B-R                            | 0 / 4287                       |
| A-B   | 0 / 0                     | -119.4                    | -119.4                         | 0.10 (1)                       | 10.00                          | R-C                            | -3325 / 0                      |
| B-C   | -2647 / 0                 | -119.4                    | -119.4                         | 0.35 (1)                       | 4.69                           | C-Q                            | 0 / 3372                       |
| C-D   | -4701 / 0                 | -119.4                    | -119.4                         | 0.47 (1)                       | 3.59                           | Q-D                            | -1761 / 0                      |
| D-T   | -5592 / 0                 | -119.4                    | -119.4                         | 0.50 (1)                       | 3.30                           | D-O                            | 0 / 1461                       |
| T-E   | -5592 / 0                 | -119.4                    | -119.4                         | 0.50 (1)                       | 3.30                           | O-F                            | -851 / 0                       |
| E-F   | -5592 / 0                 | -119.4                    | -119.4                         | 0.50 (1)                       | 3.30                           | F-G                            | 0 / 1568                       |
| F-G   | -5592 / 0                 | -119.4                    | -119.4                         | 0.50 (1)                       | 3.30                           | G-H                            | -1775 / 0                      |
| G-H   | -4636 / 0                 | -119.4                    | -119.4                         | 0.48 (1)                       | 3.59                           | H-I                            | 0 / 3352                       |
| H-I   | -2594 / 0                 | -119.4                    | -119.4                         | 0.36 (1)                       | 4.71                           | I-J                            | -3325 / 0                      |
| I-J   | -2594 / 0                 | -119.4                    | -119.4                         | 0.36 (1)                       | 4.71                           | J-K                            | 0 / 4201                       |
| J-K   | 0 / 0                     | -119.4                    | -119.4                         | 0.10 (1)                       | 10.00                          | K-L                            |                                |
| L-J   | -3692 / 0                 | 0.0                       | 0.0                            | 0.65 (1)                       | 7.81                           |                                |                                |

|     |          |       |       |          |       |
|-----|----------|-------|-------|----------|-------|
| S-R | 0 / 0    | -18.2 | -18.2 | 0.03 (4) | 10.00 |
| R-Q | 0 / 2647 | -18.2 | -18.2 | 0.23 (1) | 10.00 |
| Q-U | 0 / 4701 | -18.2 | -18.2 | 0.59 (1) | 10.00 |
| U-P | 0 / 4701 | -18.2 | -18.2 | 0.59 (1) | 10.00 |
| P-O | 0 / 4701 | -18.2 | -18.2 | 0.59 (1) | 10.00 |
| O-V | 0 / 4636 | -18.2 | -18.2 | 0.80 (1) | 10.00 |
| V-N | 0 / 4636 | -18.2 | -18.2 | 0.80 (1) | 10.00 |
| N-M | 0 / 2594 | -18.2 | -18.2 | 0.32 (1) | 10.00 |
| M-L | 0 / 0    | -18.2 | -18.2 | 0.03 (1) | 10.00 |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.    | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|---------|-------|-------|------|-------|------|-------|------|-------|
| F  | 14-9.4  | -102  | -102  | —    | FRONT | VERT | TOTAL | —    | C1    |
| O  | 14-9.4  | -23   | -23   | —    | FRONT | VERT | TOTAL | —    | C1    |
| P  | 13-0-12 | -23   | -23   | —    | FRONT | VERT | TOTAL | —    | C1    |
| T  | 13-0-12 | -102  | -102  | —    | FRONT | VERT | TOTAL | —    | C1    |
| U  | 11-0-12 | -857  | -857  | —    | FRONT | VERT | TOTAL | —    | C1    |
| V  | 16-9.4  | -1149 | -1149 | —    | FRONT | VERT | TOTAL | —    | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

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

SPACING = 24.0 IN. C/C

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

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.26")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/783 (0.45")

CSI: TC=0.68/0.97 (B-S-1), BC=0.80/0.97 (N-O-1),  
WB=0.91/0.97 (H-M-1), SS=0.66/1.00 (N-O-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     |
| MT20  | 650       | 371   | 1747    |
|       | 788       | 1987  | 1873    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (M) (INPUT = 0.90)  
JSI METAL = 0.93 (R) (INPUT = 1.00)



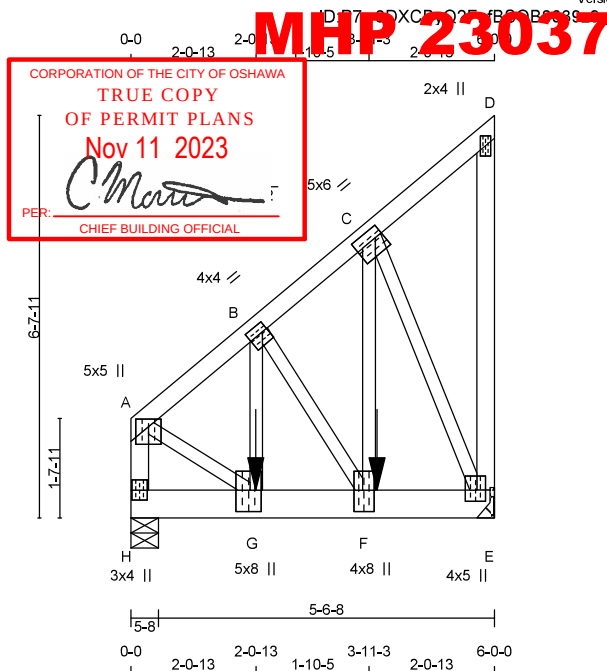
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IN THE DESIGN OF THIS COMPONENT.





|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | G04        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:38.0

TOTAL WEIGHT = 41 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-------------------|--------|------|--------|--------|
| A - D             | 2x4    | DRY  | No.2   | SPF    |
| E - D             | 2x4    | DRY  | No.2   | SPF    |
| H - A             | 2x4    | DRY  | No.2   | SPF    |
| H - E             | 2x6    | DRY  | No.2   | SPF    |
| ALL WEBS EXCEPT   | 2x3    | DRY  | No.2   | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| A  | TMVW+p  | MT20   | 5.0 | 5.0 | 1.50 | 2.50 |
| B  | TMWW-i  | MT20   | 4.0 | 4.0 | 1.75 | 1.00 |
| C  | TMWW-i  | MT20   | 5.0 | 6.0 | 2.00 | 1.50 |
| D  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| E  | BMVW1+p | MT20   | 4.0 | 5.0 | 2.25 | 1.75 |
| F  | BMWW-i  | MT20   | 4.0 | 8.0 | 4.25 | 1.75 |
| G  | BMWW-i  | MT20   | 5.0 | 8.0 | 4.25 | 2.25 |
| H  | BMV1+p  | MT20   | 3.0 | 4.0 |      |      |

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

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
|----|------|------|------|------|--------|------------|-------|
| E  | 2259 | 0    | 2259 | 0    | 0      | MECHANICAL |       |
| H  | 2259 | 0    | 2259 | 0    | 0      | 5-8        | 3-14  |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT E. MINIMUM BEARING LENGTH AT JOINT E = 2-8.

**UNFACTORED REACTIONS**

| 1ST LCASE |          | MAX. MIN. COMPONENT REACTIONS |       |            |       |         |       |
|-----------|----------|-------------------------------|-------|------------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
| E         | 1577     | 1152 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 425 / 0 | 0 / 0 |
| H         | 1577     | 1152 / 0                      | 0 / 0 | 0 / 0      | 0 / 0 | 425 / 0 | 0 / 0 |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.72 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) | MAX. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           | FROM TO                   |               | FR-TO              |       |                           |               |          |
| A-B    | -1851 / 0                 | -119.4                    | -119.4        | 0.16 (1)           | 4.72  | G-B                       | 0 / 1002      | 0.25 (1) |
| B-C    | -1180 / 0                 | -119.4                    | -119.4        | 0.11 (1)           | 5.70  | B-F                       | -920 / 0      | 0.21 (1) |
| C-D    | -18 / 0                   | -119.4                    | -119.4        | 0.09 (1)           | 6.25  | F-C                       | 0 / 2480      | 0.61 (1) |
| E-D    | -95 / 0                   | 0.0                       | 0.0           | 0.08 (1)           | 7.81  | C-E                       | -2216 / 0     | 0.88 (1) |
| H-A    | -2150 / 0                 | 0.0                       | 0.0           | 0.25 (1)           | 5.66  | A-G                       | 0 / 1646      | 0.41 (1) |
| H-G    | 0 / 0                     | -18.2                     | -18.2         | 0.14 (1)           | 10.00 |                           |               |          |
| G-F    | 0 / 1418                  | -18.2                     | -18.2         | 0.39 (1)           | 10.00 |                           |               |          |
| F-E    | 0 / 927                   | -18.2                     | -18.2         | 0.32 (1)           | 10.00 |                           |               |          |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1   | MAX-  | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|-------|-------|------|-------|------|-------|------|-------|
| F  | 4-0-12 | -1288 | -1288 |      | FRONT | VERT | TOTAL |      | C1    |
| G  | 2-0-12 | -1288 | -1288 |      | FRONT | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

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

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

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

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

**THIS DESIGN COMPLIES WITH:**

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

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

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

CSI: TC=0.25/0.97 (A-H:1), BC=0.39/0.97 (F-G:1),  
WB=0.88/0.97 (C-E:1), SS=0.10/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE   | GRIP(DRY) | SHEAR    | SECTION   |
|---------|-----------|----------|-----------|
| (PSI)   | (PLI)     | (PLI)    |           |
| 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 (A) (INPUT = 0.90)  
JSI METAL = 0.51 (G) (INPUT = 1.00)

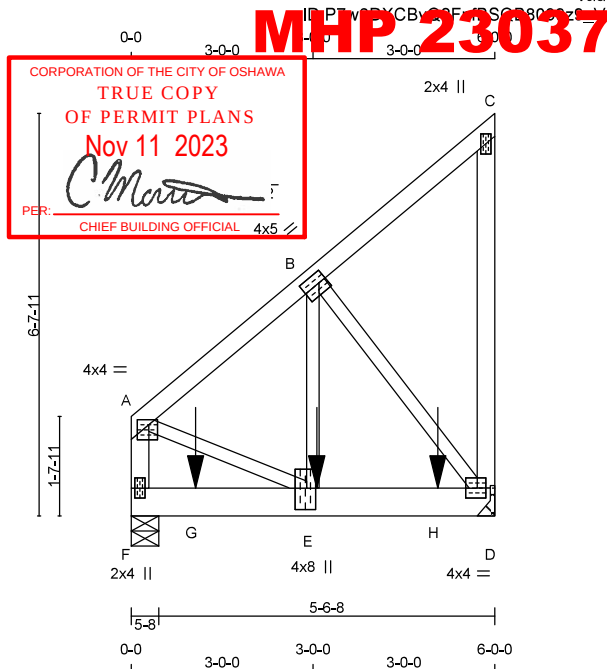


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|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | G05        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:38.0

TOTAL WEIGHT = 36 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-------------------|--------|------|--------|--------|
| A - C             | 2x4    | DRY  | No.2   | SPF    |
| D - C             | 2x4    | DRY  | No.2   | SPF    |
| F - A             | 2x4    | DRY  | No.2   | SPF    |
| F - D             | 2x6    | DRY  | No.2   | SPF    |
| ALL WEBS EXCEPT   | 2x3    | DRY  | No.2   | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW-p | MT20   | 4.0 | 4.0 | 1.00 | 2.25 |
| B  | TMVW-H | MT20   | 4.0 | 5.0 | 2.00 | 1.50 |
| C  | TMV-p  | MT20   | 2.0 | 4.0 |      |      |
| D  | BMVW14 | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| E  | BMVW14 | MT20   | 4.0 | 8.0 | 4.25 | 1.75 |
| F  | BMV1-p | MT20   | 2.0 | 4.0 |      |      |

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

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
|----|------|------|------|------|--------|------------|-------|
| D  | 1668 | 0    | 1668 | 0    | 0      | MECHANICAL |       |
| F  | 1633 | 0    | 1633 | 0    | 0      | 5-8        | 1-13  |

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT D. MINIMUM BEARING LENGTH AT JOINT D = 1-13.

**UNFACTORED REACTIONS**

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|-----------|----------|-------------------------------|-------|-----------|-------|---------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| D         | 1163     | 857 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 306 / 0 | 0 / 0 |
| F         | 1139     | 840 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 299 / 0 | 0 / 0 |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 5.85 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. CS1 (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | WEBS      | MAX. FACTORED FORCE (LBS) | MAX. CS1 (LC) |
|-------|-----------|---------------------------|---------------------------|---------------|----------------------------|-------|-----------|---------------------------|---------------|
| FR-TO |           |                           |                           |               |                            | FR-TO |           |                           |               |
| A-B   | -1039 / 0 | -119.4                    | -119.4                    | 0.20 (1)      | 5.85                       | E-B   | 0 / 1256  | 0.31 (1)                  |               |
| B-C   | -26 / 0   | -119.4                    | -119.4                    | 0.18 (1)      | 6.25                       | B-D   | -1302 / 0 | 0.47 (1)                  |               |
| D-C   | -139 / 0  | 0.0                       | 0.0                       | 0.12 (1)      | 7.81                       | A-E   | 0 / 883   | 0.22 (1)                  |               |
| F-A   | -1153 / 0 | 0.0                       | 0.0                       | 0.13 (1)      | 7.29                       |       |           |                           |               |
| F-G   | 0 / 0     | -18.2                     | -18.2                     | 0.37 (1)      | 10.00                      |       |           |                           |               |
| G-E   | 0 / 0     | -18.2                     | -18.2                     | 0.37 (1)      | 10.00                      |       |           |                           |               |
| E-H   | 0 / 818   | -18.2                     | -18.2                     | 0.46 (1)      | 10.00                      |       |           |                           |               |
| H-D   | 0 / 818   | -18.2                     | -18.2                     | 0.46 (1)      | 10.00                      |       |           |                           |               |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE  | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|-------|------|-------|------|-------|
| E  | 3-0-12 | -575 | -575 | —    | FRONT | VERT | TOTAL | —    | C1    |
| G  | 1-0-12 | -575 | -575 | —    | FRONT | VERT | TOTAL | —    | C1    |
| H  | 5-0-12 | -575 | -575 | —    | FRONT | VERT | TOTAL | —    | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

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

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

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

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

**THIS DESIGN COMPLIES WITH:**

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL)= L/360 (0.20")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.03")

CSI: TC=0.20/0.97 (A-B:1), BC=0.46/0.97 (D-E:1),  
WB=0.47/0.97 (B-D:1), SSI=0.34/1.00 (D-E:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (A) (INPUT = 0.90)  
JSI METAL= 0.37 (E) (INPUT = 1.00)

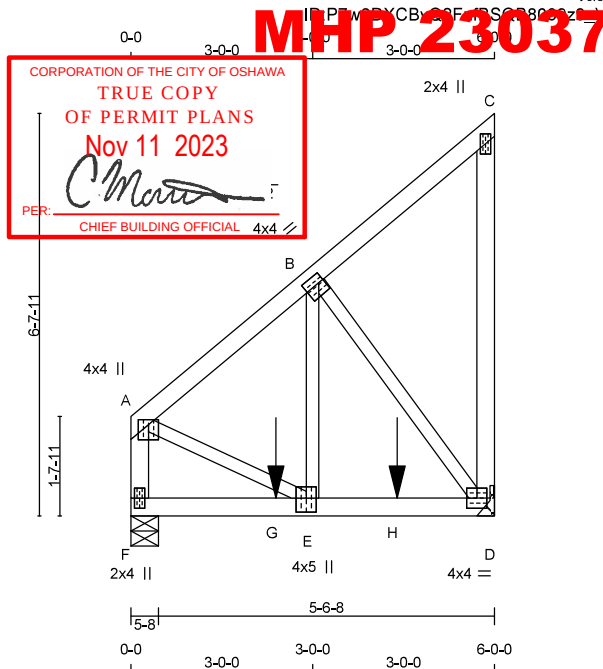


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | G06        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:38.0

TOTAL WEIGHT = 33 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| A  | TMVW+p | MT20   | 4.0 | 4.0 | 1.00 | 2.00 |
| B  | TMWW-t | MT20   | 4.0 | 4.0 | 1.75 | 1.00 |
| C  | TMV+p  | MT20   | 2.0 | 4.0 |      |      |
| D  | BMVW-t | MT20   | 4.0 | 4.0 |      |      |
| E  | BMWW-t | MT20   | 4.0 | 5.0 | 2.75 | 2.00 |
| F  | 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      | REQD      |
|----|-------------------------|---------------------------------|------------|-----------|
| D  | VERT 1250               | DOWN 1250                       | BRG 0/0    | BRG 0/0   |
| F  | HORZ 1054               | HORZ 1054                       | UPLIFT 0/0 | IN-SX 5-8 |

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

**UNFACTORED REACTIONS**

| JT | 1ST LOASE | MAX./MIN. COMPONENT REACTIONS | WIND | DEAD  | SOIL |
|----|-----------|-------------------------------|------|-------|------|
| D  | COMBINED  | SNOW 642/0                    | 0/0  | 229/0 | 0/0  |
| F  |           | LIVE 541/0                    | 0/0  | 194/0 | 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 = 6.25 FT. MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. FACTORED VERT. LOAD (LC) | MAX. FACTORED VERT. LOAD (LC) | MEMB. | WEBS    | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (LC) |
|-------|--------|---------------------------|--------------------------|-------------------------------|-------------------------------|-------|---------|---------------------------|-------------------------------|
| FR-TO |        |                           | FROM                     | TO                            | LENGTH                        | FR-TO |         |                           |                               |
| A-B   | -857/0 | -119.4                    | -119.4                   | 0.20 (1)                      | 6.25                          | E-B   | 0/985   | 0.24 (1)                  |                               |
| B-C   | -26/0  | -119.4                    | -119.4                   | 0.18 (1)                      | 6.25                          | B-D   | -1096/0 | 0.42 (1)                  |                               |
| D-C   | -138/0 | 0.0                       | 0.0                      | 0.12 (1)                      | 7.81                          | A-E   | 0/740   | 0.18 (1)                  |                               |
| F-A   | -998/0 | 0.0                       | 0.0                      | 0.12 (1)                      | 7.71                          |       |         |                           |                               |
| F-G   | 0/0    | -18.2                     | -18.2                    | 0.54 (1)                      | 10.00                         |       |         |                           |                               |
| G-E   | 0/0    | -18.2                     | -18.2                    | 0.54 (1)                      | 10.00                         |       |         |                           |                               |
| E-H   | 0/678  | -18.2                     | -18.2                    | 0.69 (1)                      | 10.00                         |       |         |                           |                               |
| H-D   | 0/678  | -18.2                     | -18.2                    | 0.69 (1)                      | 10.00                         |       |         |                           |                               |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1  | MAX- | MAX+ | FACE | DIR. | TYPE  | HEEL | CONN. |
|----|--------|------|------|------|------|------|-------|------|-------|
| G  | 2-4-12 | -515 | -515 |      | BACK | VERT | TOTAL |      | C1    |
| H  | 4-4-12 | -515 | -515 |      | BACK | VERT | TOTAL |      | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

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

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

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

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

THIS DESIGN COMPLIES WITH:

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

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

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

CSI: TC=0.20/0.97 (A-B:1), BC=0.69/0.97 (D-E:1),  
WB=0.42/0.97 (B-D:1), SS=0.63/1.00 (E-F:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.87 (A) (INPUT = 0.90)  
JSI METAL= 0.31 (E) (INPUT = 1.00)

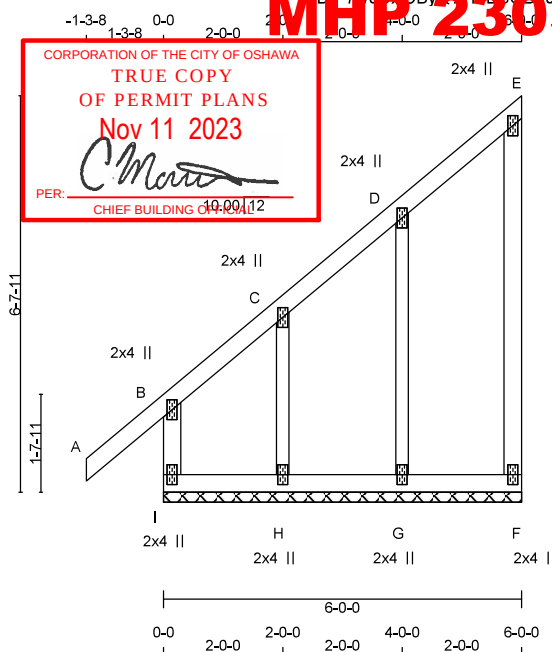


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|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | GE01       | 1        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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Scale = 1:38.6

TOTAL WEIGHT = 32 lb

| LUMBER                           |      |        |        | DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING |  |
|----------------------------------|------|--------|--------|--------------------------------------------------------------------------------------|--|
| N. L. G. A. RULES                |      |        |        | DESIGNER                                                                             |  |
| CHORDS                           | SIZE | LUMBER | DESCR. | BEARINGS                                                                             |  |
| I - B                            | 2x4  | DRY    | No.2   | SPF                                                                                  |  |
| A - E                            | 2x4  | DRY    | No.2   | SPF                                                                                  |  |
| F - E                            | 2x4  | DRY    | No.2   | SPF                                                                                  |  |
| I - F                            | 2x4  | DRY    | No.2   | SPF                                                                                  |  |
| ALL WEBS                         | 2x3  | DRY    | No.2   | SPF                                                                                  |  |
| ALL GABLE WEBS                   | 2x3  | DRY    | No.2   | SPF                                                                                  |  |
| DRY: SEASONED LUMBER.            |      |        |        |                                                                                      |  |
| GABLE STUDS SPACED AT 2'-0" O.C. |      |        |        |                                                                                      |  |

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y | X |
|----|--------|--------|-----|-----|---|---|
| B  | TMV+p  | MT20   | 2.0 | 4.0 |   |   |
| C  | TMV+w  | MT20   | 2.0 | 4.0 |   |   |
| D  | TMV+w  | MT20   | 2.0 | 4.0 |   |   |
| E  | TMV+p  | MT20   | 2.0 | 4.0 |   |   |
| F  | BMV1+p | MT20   | 2.0 | 4.0 |   |   |
| G  | BMV1+w | MT20   | 2.0 | 4.0 |   |   |
| H  | BMV1+w | MT20   | 2.0 | 4.0 |   |   |
| I  | BMV1+p | MT20   | 2.0 | 4.0 |   |   |

| 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 |                           |                           |  |
| I-B    | -332 / 0                  | 0.0 0.0 0.05 (1)          | 7.81                      | G-D   | -272 / 0                  | 0.10 (1)                  |  |
| A-B    | 0 / 53                    | -119.4 -119.4 0.16 (1)    | 10.00                     | H-C   | -173 / 0                  | 0.03 (1)                  |  |
| B-C    | -44 / 0                   | -119.4 -119.4 0.14 (1)    | 6.25                      |       |                           |                           |  |
| C-D    | -1 / 0                    | -119.4 -119.4 0.07 (1)    | 10.00                     |       |                           |                           |  |
| D-E    | -15 / 0                   | -119.4 -119.4 0.07 (1)    | 6.25                      |       |                           |                           |  |
| F-E    | -105 / 0                  | 0.0 0.0 0.03 (1)          | 7.81                      |       |                           |                           |  |
| I-H    | 0 / 14                    | -18.2 -18.2 0.05 (1)      | 10.00                     |       |                           |                           |  |
| H-G    | 0 / 8                     | -18.2 -18.2 0.02 (4)      | 10.00                     |       |                           |                           |  |
| G-F    | 0 / 3                     | -18.2 -18.2 0.02 (4)      | 10.00                     |       |                           |                           |  |

**LOADING**  
TOTAL LOAD CASES: (4)**DESIGN CRITERIA**

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

**SPACING = 24.0 IN./C**

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

CSI: TC=0.16/0.97 (A-B:1) , BC=0.05/0.97 (H-I:1) ,  
 WB=0.10/0.97 (D-G:1) , 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= 0.24 (B) (INPUT = 0.90 )  
 JSI METAL= 0.19 (B) (INPUT = 1.00 )

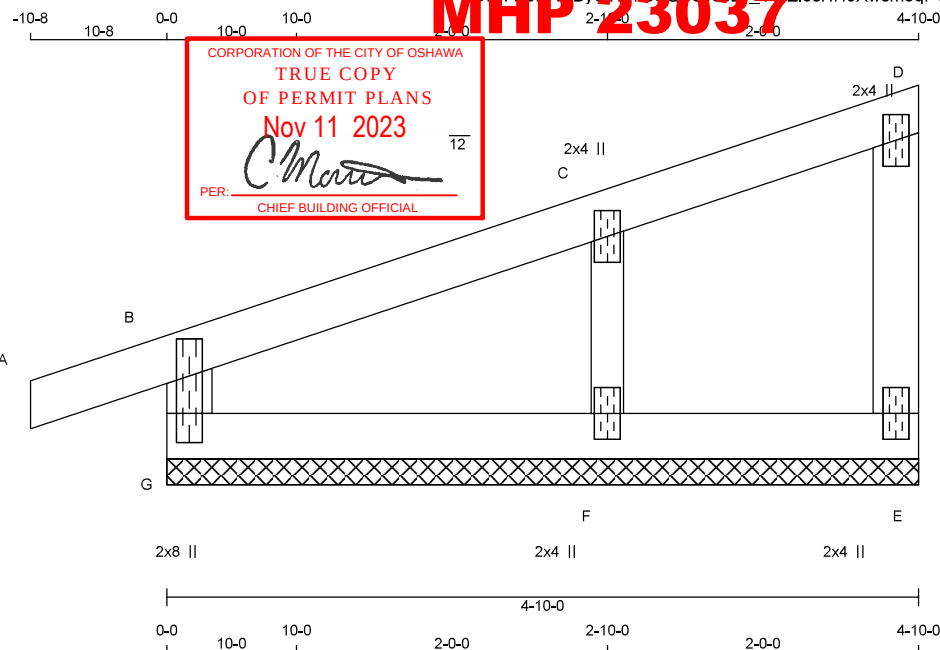


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|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | GE02       | 1        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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TOTAL WEIGHT = 16 lb

**LUMBER**

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

|                                  |     |     |      |
|----------------------------------|-----|-----|------|
| ALL WEBS                         | 2x3 | DRY | No.2 |
| ALL GABLE WEBS                   | 2x3 | DRY | No.2 |
| DRY: SEASONED LUMBER.            |     |     |      |
| GABLE STUDS SPACED AT 2'-0" O.C. |     |     |      |

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

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

**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)

**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y | X |
|----|----------|--------|-----|-----|---|---|
| B  |          |        |     |     |   |   |
| C  | TMV+w    | MT20   | 2.0 | 4.0 |   |   |
| D  | TMV+p    | MT20   | 2.0 | 4.0 |   |   |
| E  | BMV1+p   | MT20   | 2.0 | 4.0 |   |   |
| F  | BMV1+w   | MT20   | 2.0 | 4.0 |   |   |
| G  |          |        |     |     |   |   |
| G  | TMBMV1+p | MT20   | 2.0 | 8.0 |   |   |

**CHORDS**

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1    | MAX      | UNBRAC LENGTH | FR-TO | MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 | MAX | UNBRAC LENGTH | FR-TO |
|-------|---------------------------|---------------------------|--------|----------|---------------|-------|-------|---------------------------|---------------------------|-----|-----|---------------|-------|
| G-B   | -291 / 0                  | 0.0                       | 0.0    | 0.02 (4) | 7.81          |       | F-C   | -300 / 0                  | 0.04 (1)                  |     |     |               |       |
| A-B   | 0 / 17                    | -119.4                    | -119.4 | 0.07 (1) | 10.00         |       |       |                           |                           |     |     |               |       |
| B-C   | -25 / 0                   | -119.4                    | -119.4 | 0.12 (1) | 6.25          |       |       |                           |                           |     |     |               |       |
| C-D   | -19 / 0                   | -119.4                    | -119.4 | 0.09 (1) | 6.25          |       |       |                           |                           |     |     |               |       |
| E-D   | -96 / 0                   | 0.0                       | 0.0    | 0.02 (1) | 7.81          |       |       |                           |                           |     |     |               |       |
| G-F   | 0 / 21                    | -18.2                     | -18.2  | 0.03 (4) | 10.00         |       |       |                           |                           |     |     |               |       |
| F-E   | 0 / 11                    | -18.2                     | -18.2  | 0.03 (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 LOADCSI: TC=0.12/0.97 (B-C:1), BC=0.03/0.97 (F-G:4),  
WB=0.04/0.97 (C-F:1), SSI=0.13/1.00 (B-C:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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= 0.16 (C) (INPUT = 0.90 )  
JSI METAL= 0.10 (G) (INPUT = 1.00 )

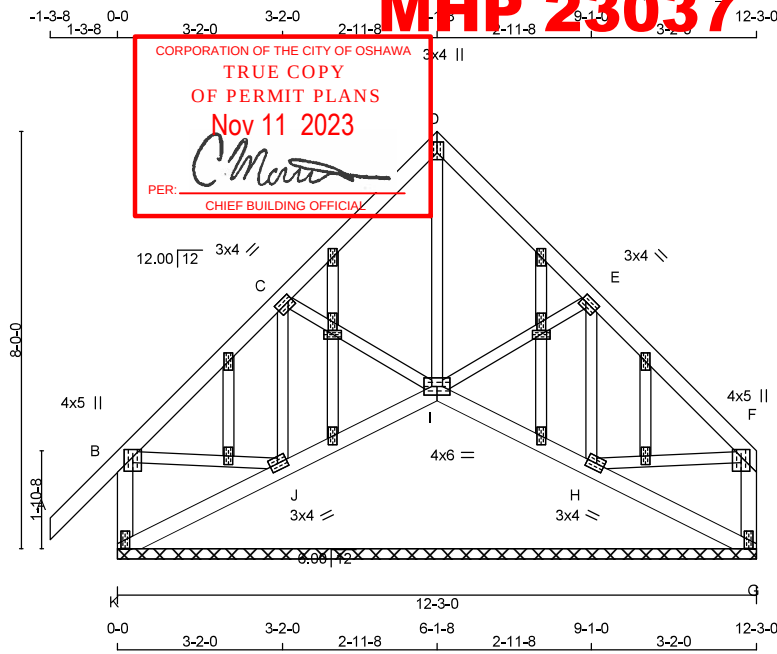
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | GES01      | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:44.2

TOTAL WEIGHT = 69 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|-------------------|--------|------|--------|
| A - D             | 2x4    | DRY  | No.2   |
| D - F             | 2x4    | DRY  | No.2   |
| K - B             | 2x4    | DRY  | No.2   |
| G - F             | 2x4    | DRY  | No.2   |
| K - I             | 2x4    | DRY  | No.2   |
| I - G             | 2x4    | DRY  | No.2   |

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

GABLE STUDS SPACED AT 24-0 OC.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| C  | TMVW+1  | MT20   | 3.0 | 4.0 | 1.50 | 1.00 |
| D  | TTW+p   | MT20   | 3.0 | 4.0 | Edge |      |
| E  | TMVW+1  | MT20   | 3.0 | 4.0 | 1.50 | 1.00 |
| F  | TMVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| G  | BMV1+p  | MT20   | 2.0 | 4.0 |      |      |
| H  | BMVW1-t | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| I  | BMVW1-p | MT20   | 4.0 | 6.0 |      |      |
| J  | BMVW1-t | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| K  | BMV1+p  | MT20   | 2.0 | 4.0 |      |      |
| L  | NP-p    | MT20   | 2.0 | 4.0 | 1.00 | 2.00 |
| L  | NP-w    | MT20   | 2.0 | 4.0 |      |      |
| S  | NP-p    | MT20   | 2.0 | 4.0 | 1.00 | 2.00 |

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

| JT | VERT | HORZ | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG           | REQD BRG |
|----|------|------|-------------------------|---------------------------------|---------------------|----------|
| K  | 413  | 0    | 413                     | 0                               | 12-3-0 (5-8-0) JI-8 |          |
| I  | 508  | 0    | 508                     | 0                               | 12-3-0 (5-8-0) JI-8 |          |
| G  | 254  | 0    | 254                     | 0                               | 12-3-0 (5-8-0) JI-8 |          |
| H  | 330  | 0    | 330                     | 0                               | 12-3-0 (5-8-0) JI-8 |          |
| J  | 348  | 0    | 348                     | 0                               | 12-3-0 (5-8-0) JI-8 |          |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED | MAX./MIN. SNOW | LIVE  | PERM. LIVE | WIND  | DEAD   | SOIL  |
|----|--------------------|----------------|-------|------------|-------|--------|-------|
| K  | 285                | 227 / 0        | 0 / 0 | 0 / 0      | 0 / 0 | 57 / 0 | 0 / 0 |
| I  | 352                | 273 / 0        | 0 / 0 | 0 / 0      | 0 / 0 | 79 / 0 | 0 / 0 |
| G  | 176                | 135 / 0        | 0 / 0 | 0 / 0      | 0 / 0 | 41 / 0 | 0 / 0 |
| H  | 234                | 152 / 0        | 0 / 0 | 0 / 0      | 0 / 0 | 62 / 0 | 0 / 0 |
| J  | 246                | 162 / 0        | 0 / 0 | 0 / 0      | 0 / 0 | 83 / 0 | 0 / 0 |

BEARING MATERIAL TO BE SPF NO.2 OR BETTER AT JOINT(S) K, I, G, H, J

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | LC1 MAX. (LC) | MAX. UNBRACED LENGTH | MEMB. MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
|-------|----------------------------------|---------------------------|---------------|----------------------|---------------------------------|---------------------------|
| FR-TO |                                  | FROM                      | TO            |                      | FR-TO                           |                           |
| A-B   | 0 / 59                           | -119.4                    | -119.4        | 0.17 (1)             | 10.00                           | I-D -278 / 0              |
| B-C   | -76 / 0                          | -119.4                    | -119.4        | 0.19 (1)             | 6.25                            | I-E -110 / 0              |
| C-D   | -20 / 0                          | -119.4                    | -119.4        | 0.19 (1)             | 6.25                            | H-E -306 / 0              |
| D-E   | -20 / 0                          | -119.4                    | -119.4        | 0.19 (1)             | 6.25                            | C-I -101 / 0              |
| E-F   | -87 / 0                          | -119.4                    | -119.4        | 0.19 (1)             | 6.25                            | J-C -319 / 0              |
| K-B   | -391 / 0                         | 0.0                       | 0.0           | 0.05 (1)             | 7.81                            | B-J 0 / 76                |
| G-F   | -232 / 0                         | 0.0                       | 0.0           | 0.03 (1)             | 7.81                            | H-F 0 / 84                |
| K-J   | 0 / 3                            | -18.3                     | -18.3         | 0.05 (4)             | 10.00                           |                           |
| J-I   | 0 / 81                           | -18.2                     | -18.2         | 0.05 (4)             | 10.00                           |                           |
| I-H   | 0 / 90                           | -18.3                     | -18.3         | 0.05 (4)             | 10.00                           |                           |
| H-G   | 0 / 3                            | -18.2                     | -18.2         | 0.05 (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 LOADCSI: TC=0.19/0.97 (B-C-1), BC=0.05/0.97 (H-4),  
WB=0.11/0.97 (D-1), SSI=0.13/1.00 (B-C-1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

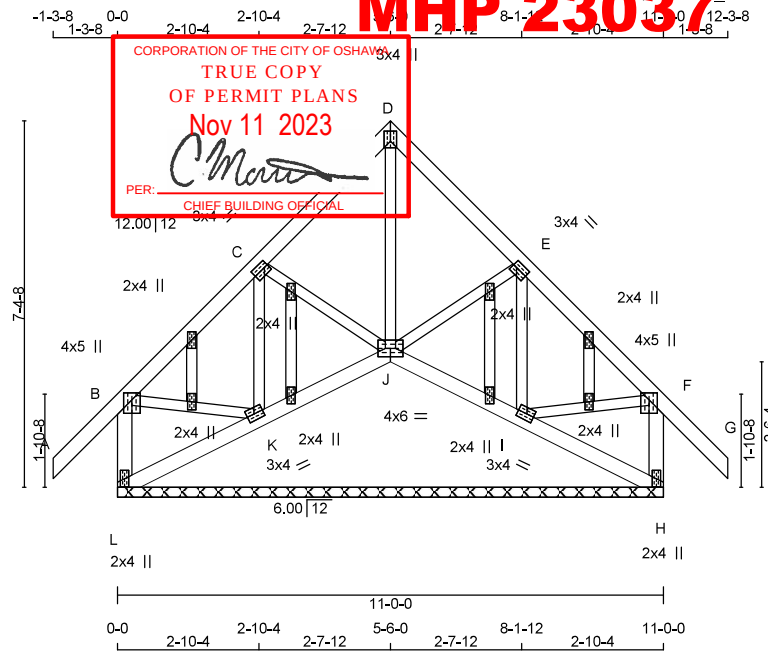
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (D) (INPUT = 0.90)  
JSI METAL= 0.17 (I) (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.





Scale = 1:46.4

TOTAL WEIGHT = 63 lb

| <b>LUMBER</b>                   |      |     |        |             |
|---------------------------------|------|-----|--------|-------------|
| N. L. G. A. RULES               |      |     |        |             |
| CHORDS                          | SIZE |     | LUMBER | DESCRIPTION |
| A - D                           | 2x4  | DRY | No.2   | SPF         |
| D - G                           | 2x4  | DRY | No.2   | SPF         |
| L - B                           | 2x4  | DRY | No.2   | SPF         |
| H - F                           | 2x4  | DRY | No.2   | SPF         |
| L - J                           | 2x4  | DRY | No.2   | SPF         |
| J - H                           | 2x4  | DRY | No.2   | SPF         |
| ALL WEBS<br>EXCEPT              | 2x3  | DRY | No.2   | SPF         |
| ALL GABLE WEBS                  |      |     |        |             |
|                                 | 2x3  | DRY | No.2   | SPF         |
| DRY: SEASONED LUMBER.           |      |     |        |             |
| GABLE STUDS SPACED AT 2-0-0 OC. |      |     |        |             |

| JT                     | TYPE     | PLATES | W   | LEN | Y    | X    |
|------------------------|----------|--------|-----|-----|------|------|
| B                      | TMVVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| C                      | CTMWW-t  | MT20   | 3.0 | 4.0 | 1.50 | 1.00 |
| D                      | TTW+p    | MT20   | 3.0 | 4.0 | Edge |      |
| E                      | TMVVW-t  | MT20   | 3.0 | 4.0 | 1.50 | 1.00 |
| F                      | TMVVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| H                      | BMV1+p   | MT20   | 2.0 | 4.0 |      |      |
| I                      | BMVVW-t  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| J                      | BBWWW1+p | MT20   | 4.0 | 6.0 |      |      |
| K                      | BMVVW-t  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| L                      | BMV1+p   | MT20   | 2.0 | 4.0 |      |      |
| M, N, O, P, Q, R, S, T |          |        |     |     |      |      |
| M                      | NP+W     | MT20   | 2.0 | 4.0 |      |      |

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

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

|    | FACTORED<br>GROSS REACTION |      | MAXIMUM FACTORED<br>GROSS REACTION |      | INPUT<br>BRG | REQ'D<br>BRG |
|----|----------------------------|------|------------------------------------|------|--------------|--------------|
|    | VERT                       | HORZ | DOWN                               | HORZ |              |              |
| JT |                            |      |                                    |      | IN-SX        | IN-SX        |
| L  | 389                        | 0    | 389                                | 0    | 11-00        | 5-0-8        |
| J  | 467                        | 0    | 467                                | 0    | 11-00        | 5-0-8        |
| H  | 389                        | 0    | 389                                | 0    | 11-00        | 5-0-8        |
| I  | 302                        | 0    | 302                                | 0    | 11-00        | 5-0-8        |
| K  | 302                        | 0    | 302                                | 0    | 11-00        | 5-0-8        |

VALUE IN PARENTHESIS INDICATES EFFECTIVE BEARING LENGTH

| UNFACTORED REACTIONS |         |                               |       |           |       |        |       |
|----------------------|---------|-------------------------------|-------|-----------|-------|--------|-------|
| 1ST LCASE            |         | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
| JT                   | COMBRED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| L                    | 268     | 215 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 53 / 0 | 0 / 0 |
| J                    | 323     | 251 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 72 / 0 | 0 / 0 |
| H                    | 268     | 215 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 53 / 0 | 0 / 0 |
| I                    | 213     | 140 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 74 / 0 | 0 / 0 |
| K                    | 213     | 140 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 74 / 0 | 0 / 0 |

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

## BRACING

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

ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED

## LOADING

**TOTAL LOAD CASES: (4)**

| CHORDS        |        |            |          | WEBS          |       |       |          |          |
|---------------|--------|------------|----------|---------------|-------|-------|----------|----------|
| MAX. FACTORED |        | FACTORED   |          | MAX. FACTORED |       |       |          |          |
| MEMB.         | FORCE  | VERT. LOAD | MAX      | MAX.          | MEMB. | FORCE | MAX      |          |
|               | (LBS)  | (PLF)      | CSI (LC) | UNBRAC        |       | (LBS) | CSI (LC) |          |
| FR-TO         |        | FROM       | TO       | LENGTH        | FR-TO |       |          |          |
| A-B           | 0/59   | -119.4     | -119.4   | 0.17 (1)      | 10.00 | J-D   | -258/0   | 0.09 (1) |
| B-C           | -63/0  | -119.4     | -119.4   | 0.15 (1)      | 6.25  | J-E   | -95/0    | 0.02 (1) |
| C-D           | -11/0  | -119.4     | -119.4   | 0.15 (1)      | 6.25  | I-E   | -278/0   | 0.06 (1) |
| D-E           | -11/0  | -119.4     | -119.4   | 0.15 (1)      | 6.25  | C-J   | -95/0    | 0.02 (1) |
| E-F           | -63/0  | -119.4     | -119.4   | 0.15 (1)      | 6.25  | K-C   | -278/0   | 0.06 (1) |
| F-G           | 0/59   | -119.4     | -119.4   | 0.17 (1)      | 10.00 | B-K   | 0/65     | 0.01 (1) |
| L-B           | -369/0 | 0.0        | 0.0      | 0.04 (1)      | 7.81  | I-F   | 0/65     | 0.01 (1) |
| H-F           | -369/0 | 0.0        | 0.0      | 0.04 (1)      | 7.81  |       |          |          |
| L-K           | 0/3    | -18.2      | -18.2    | 0.04 (4)      | 10.00 |       |          |          |
| K-J           | 0/69   | -18.3      | -18.3    | 0.04 (4)      | 10.00 |       |          |          |
| J-I           | 0/69   | -18.3      | -18.3    | 0.04 (4)      | 10.00 |       |          |          |
| I-H           | 0/3    | -18.2      | -18.2    | 0.04 (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

CSI: TC=0.17/0.97 (F-G:1), BC=0.04/0.97 (I-J:4), WB=0.09/0.97 (D-J:1), SSI=0.12/1.00 (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= 0.39 (D) (INPUT = 0.90 )  
JSI METAL= 0.16 (J) (INPUT = 1.00 )

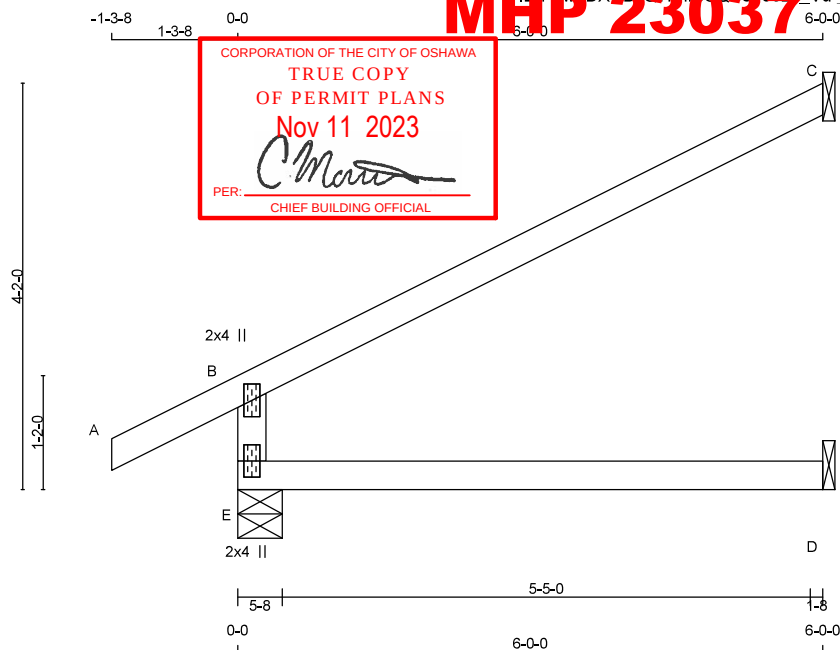


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IS AN INTEGRAL PART OF THIS DRAWING AS IT  
CONTAINS SPECIFICATIONS AND CRITERIA USED  
IN THE DESIGN OF THIS COMPONENT.**



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | J01        | 9        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:23.6

TOTAL WEIGHT = 9 X 17 = 154 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

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

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

**UNFACTORED REACTIONS**

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

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED | FACTORED | VERT. LOAD LC1 | MAX. (PLF) | MAX. (PLF) | MEMB. FORCE (LBS) | MAX. FACTORED | MAX. (LBS) |
|--------|---------------|----------|----------------|------------|------------|-------------------|---------------|------------|
| FR-TO  |               |          |                |            |            |                   |               |            |
| E-B    | -610 / 0      | 0.0      | 0.0            | 0.13 (4)   | 7.81       |                   |               |            |
| A-B    | 0 / 36        | -119.4   | -119.4         | 0.16 (1)   | 10.00      |                   |               |            |
| B-C    | -40 / 0       | -119.4   | -119.4         | 0.73 (1)   | 6.25       |                   |               |            |
| E-D    | 0 / 0         | -18.2    | -18.2          | 0.13 (4)   | 10.00      |                   |               |            |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

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

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

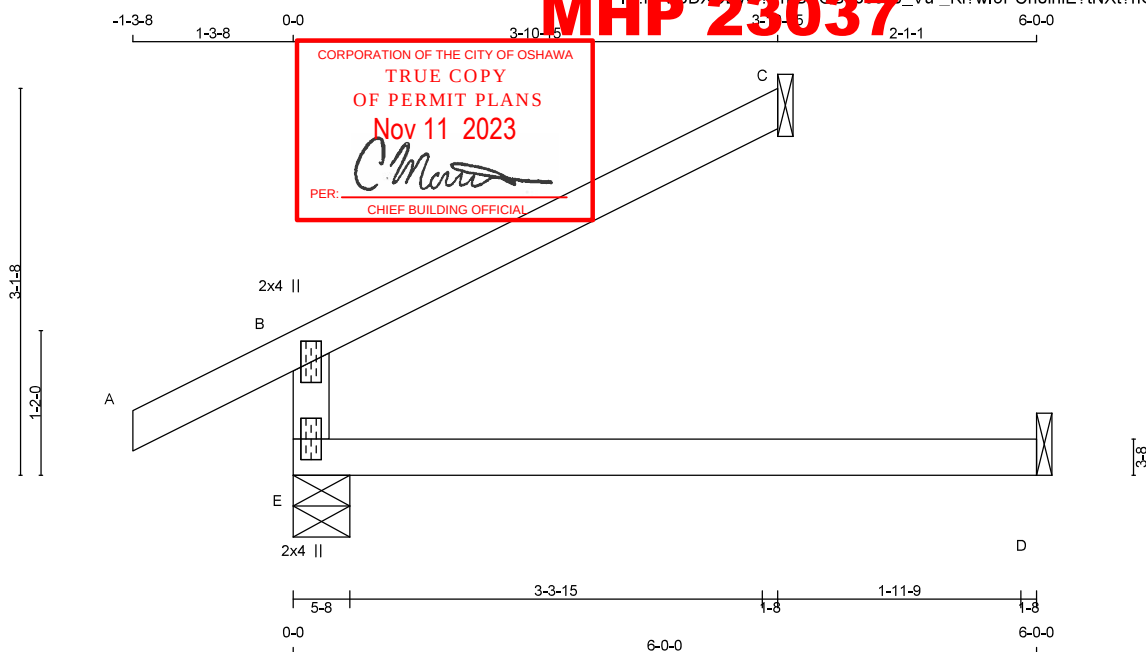


READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
 IS AN INTEGRAL PART OF THIS DRAWING AS IT  
 CONTAINS SPECIFICATIONS AND CRITERIA USED  
 IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | J02        | 2        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:18.6

TOTAL WEIGHT = 2 X 14 = 29 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | REQD |
|----|------|------|------|------|--------|-------|------|
| E  | 518  | 0    | 518  | 0    | 0      | 5-8   | 1-8  |
| C  | 175  | 0    | 175  | 0    | 0      | 1-8   | 1-8  |
| D  | 45   | 0    | 51   | 0    | 0      | 1-8   | 1-8  |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX./MIN. COMPONENT REACTIONS | SNOW  | LIVE  | PERM. LIVE | WIND   | DEAD  | SOIL  |
|----|----------|-------------------------------|-------|-------|------------|--------|-------|-------|
| E  | 362      | 265 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 97 / 0 | 0 / 0 | 0 / 0 |
| C  | 120      | 102 / 0                       | 0 / 0 | 0 / 0 | 0 / 0      | 18 / 0 | 0 / 0 | 0 / 0 |
| D  | 36       | 0 / 0                         | 0 / 0 | 0 / 0 | 0 / 0      | 36 / 0 | 0 / 0 | 0 / 0 |

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

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LOAD (LBS) | MAX. HORIZ. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. HORIZ. LOAD (LBS) |
|-------|---------------------------|---------------------------|-----------------------|------------------------|-------|---------------------------|------------------------|
| FR-TO |                           |                           |                       |                        | FR-TO |                           |                        |
| E-B   | -454 / 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   | -26 / 0                   | -119.4                    | -119.4                | 0.31 (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 LOADALLOWABLE 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=0.31/0.97 (B-C:1) , BC=0.13/0.97 (D-E:4) ,  
WB=0.00/0.97 (n/a:0) , SSH=0.20/1.00 (B-C:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

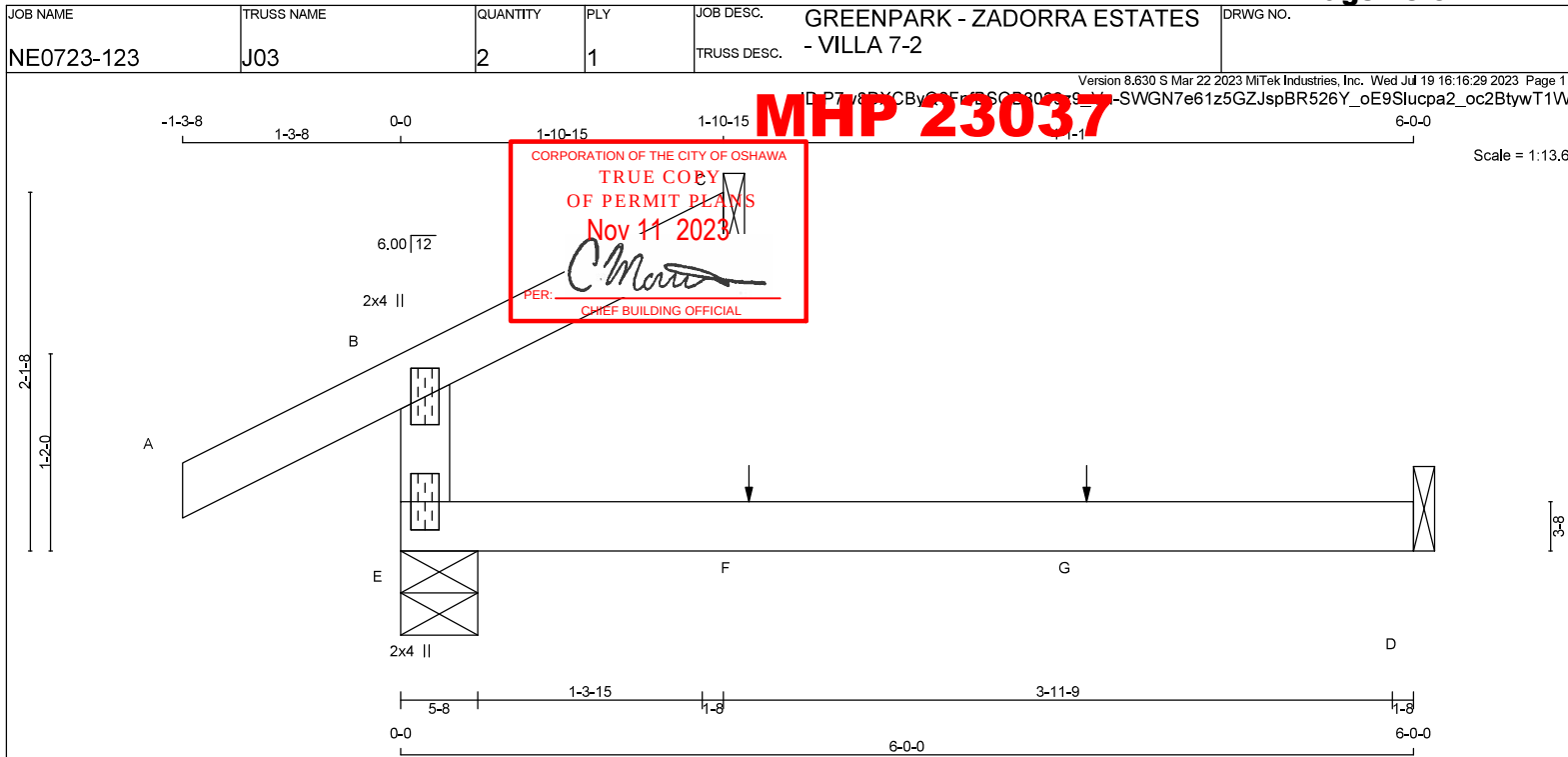
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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



**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

| JT | FACTORED GROSS REACTION |      | MAXIMUM FACTORED GROSS REACTION |      | INPUT BRG | REQRD BRG |
|----|-------------------------|------|---------------------------------|------|-----------|-----------|
|    | VERT                    | HORZ | DOWN                            | HORZ | IN-SX     | IN-SX     |
| E  | 368                     | 0    | 368                             | 0    | 5-8       | 1-8       |
| C  | 86                      | 0    | 86                              | 0    | 1-8       | 1-8       |
| D  | 45                      | 0    | 51                              | 0    | 1-8       | 1-8       |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE COMBINED |         | MAX./MIN. COMPONENT REACTIONS |       | WIND  | DEAD   | SOIL  |
|----|--------------------|---------|-------------------------------|-------|-------|--------|-------|
|    | SNOW               | LIVE    | PERM.                         | LIVE  | WIND  | DEAD   | SOIL  |
| E  | 259                | 177 / 0 | 0 / 0                         | 0 / 0 | 0 / 0 | 82 / 0 | 0 / 0 |
| C  | 59                 | 50 / 0  | 0 / 0                         | 0 / 0 | 0 / 0 | 9 / 0  | 0 / 0 |
| D  | 36                 | 0 / 0   | 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)

| MEMB. | CHORDS                    |                           | WEBS                      |                           |
|-------|---------------------------|---------------------------|---------------------------|---------------------------|
|       | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. FACTORED FORCE (LBS) | MAX. FACTORED FORCE (LBS) |
| FR-TO |                           | FROM TO                   |                           | LENGTH FR-TO              |
| E-B   | -304 / 0                  | 0.0                       | 0.0                       | 13 (4)                    |
| A-B   | 0 / 36                    | -119.4                    | -119.4                    | 0.16 (1)                  |
| B-C   | -12 / 0                   | -119.4                    | -119.4                    | 0.07 (1)                  |
| E-F   | 0 / 0                     | -18.2                     | -18.2                     | 0.13 (4)                  |
| F-G   | 0 / 0                     | -18.2                     | -18.2                     | 0.13 (4)                  |
| G-D   | 0 / 0                     | -18.2                     | -18.2                     | 0.13 (4)                  |

**SPECIFIED CONCENTRATED LOADS (LBS)**

| JT | LOC.   | LC1 | MAX. | FACE | DIR. | TYPE | HEEL  | CONN. |
|----|--------|-----|------|------|------|------|-------|-------|
| F  | 2-0-12 | 1   | 1    | —    | BACK | VERT | TOTAL | C1    |
| G  | 4-0-12 | 1   | 1    | —    | BACK | VERT | TOTAL | C1    |

**CONNECTION REQUIREMENTS**

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

**DESIGN CRITERIA**

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

**SPECIFIED LOADS:**

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

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

\*\*\* 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

**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) | SHEAR | SECTION |
|-------|------------|-------|---------|
| (PSI) | (PLI)      | (PLI) | (PLI)   |
| MAX   | MIN        | MAX   | MIN     |
| MT20  | 650        | 371   | 1747    |
|       |            | 788   | 1987    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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



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



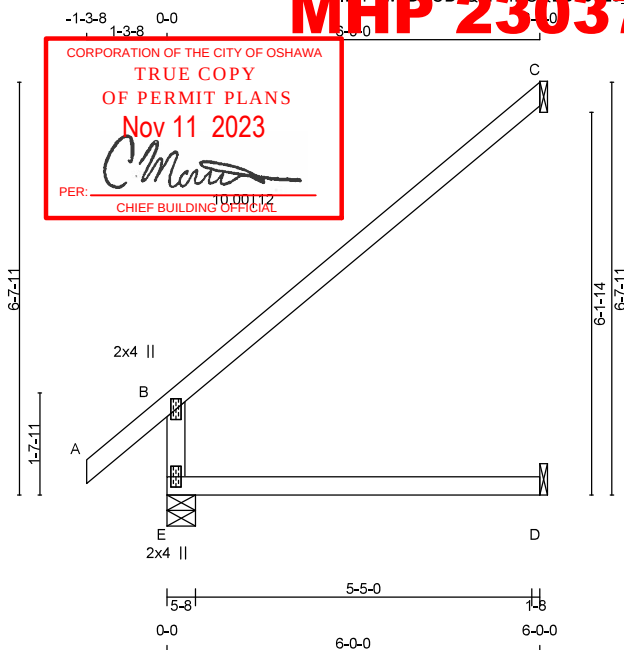






|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | J06        | 2        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:37.1

TOTAL WEIGHT = 2 X 19 = 39 lb

**LUMBER**

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

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

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

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

| JT | VERT | HORZ | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|------|------|-------------------------|---------------------------------|-----------|-----------|
| E  | 676  | 0    | 676                     | 0                               | 5-8       | 1-8       |
| C  | 269  | 0    | 269                     | 0                               | 1-8       | 1-8       |
| D  | 46   | 0    | 52                      | 0                               | 1-8       | 1-8       |

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

**UNFACTORED REACTIONS**

| JT | 1ST CASE COMBINED | MAX. MIN. SNOW | MAX. MIN. LIVE | MAX. MIN. PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|-------------------|----------------|----------------|----------------------|-------|---------|-------|
| E  | 469               | 357 / 0        | 0 / 0          | 0 / 0                | 0 / 0 | 112 / 0 | 0 / 0 |
| C  | 184               | 157 / 0        | 0 / 0          | 0 / 0                | 0 / 0 | 27 / 0  | 0 / 0 |
| D  | 37                | 0 / 0          | 0 / 0          | 0 / 0                | 0 / 0 | 37 / 0  | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD LC1 (PLF) | MAX. CSI (LC) | MAX. UNBRACED LENGTH FR-TO | MEMB. | WEBS MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------------------------------|-------------------------------|---------------|----------------------------|-------|--------------------------------|---------------|
| FR-TO |                                  |                               |               |                            | FR-TO |                                |               |
| E-B   | -613 / 0                         | 0.0                           | 0.0           | 0.12 (4)                   | 7.81  |                                |               |
| A-B   | 0 / 53                           | -119.4                        | -119.4        | 0.16 (1)                   | 10.00 |                                |               |
| B-C   | -57 / 0                          | -119.4                        | -119.4        | 0.74 (1)                   | 6.25  |                                |               |
| E-D   | 0 / 0                            | -18.2                         | -18.2         | 0.14 (4)                   | 10.00 |                                |               |

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

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

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

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

THIS DESIGN COMPLIES WITH:

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

**DESIGN ASSUMPTIONS**

-OVERHANG NOT TO BE ALTERED OR CUT OFF.

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

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

CSI: TC=0.74/0.97 (B-C:1) , BC=0.14/0.97 (D-E:4) ,  
 WB=0.00/0.97 (n/a:0) , SSH=0.27/1.00 (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)              |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.42 (B) (INPUT = 0.90 )  
 JSI METAL = 0.33 (B) (INPUT = 1.00 )

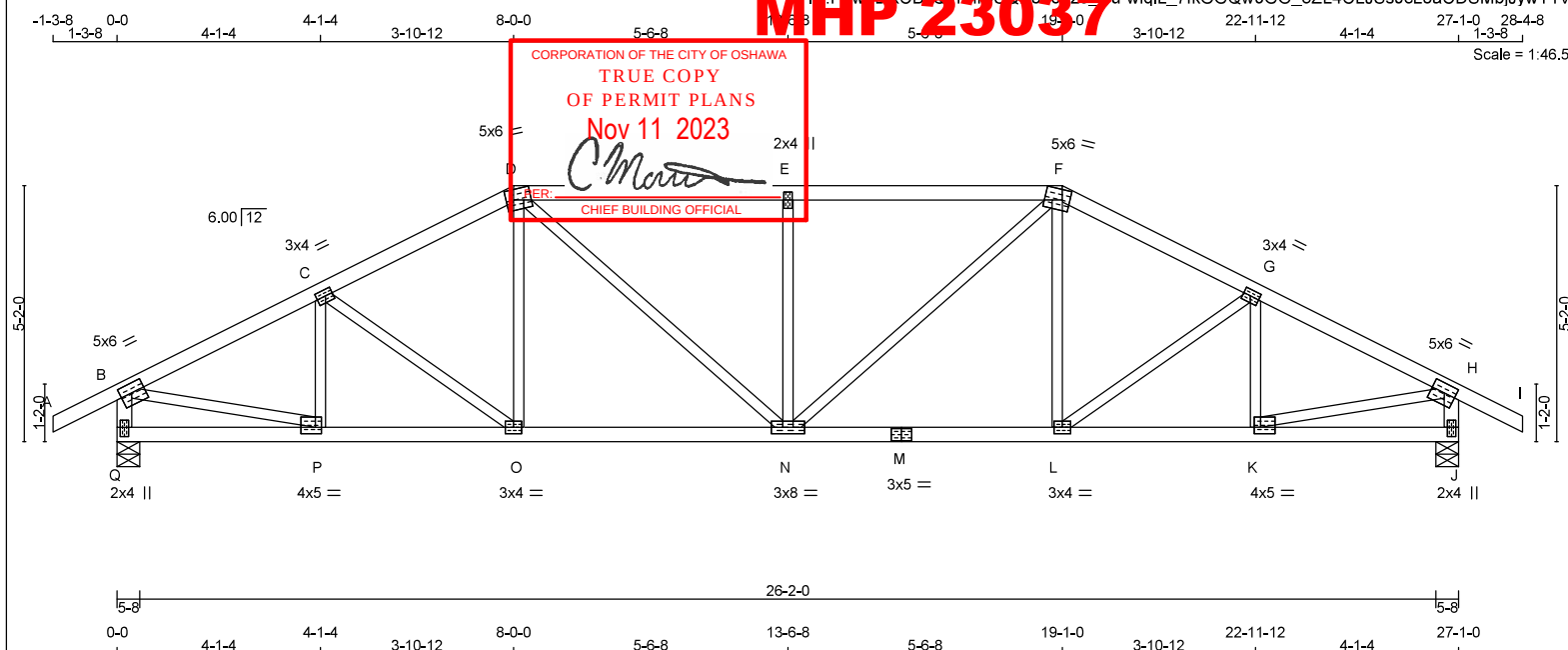


READ ALL NOTES ON THIS PAGE AND ON THE  
 ENGINEERING NOTES: TRUSSES. THE NOTE PAGE  
 IS AN INTEGRAL PART OF THIS DRAWING AS IT  
 CONTAINS SPECIFICATIONS AND CRITERIA USED  
 IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T01        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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TOTAL WEIGHT = 110 lb

**LUMBER**

## N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - D  | 2x4  | DRY No.2 |
| D - F  | 2x4  | DRY No.2 |
| F - I  | 2x4  | DRY No.2 |
| Q - B  | 2x4  | DRY No.2 |
| J - H  | 2x4  | DRY No.2 |
| Q - M  | 2x4  | DRY No.2 |
| M - J  | 2x4  | DRY No.2 |

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| C  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| D  | TMVW4  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| E  | TMVW4  | MT20   | 2.0 | 4.0 |      |      |
| F  | TMVW4  | MT20   | 5.0 | 6.0 | 2.50 | 1.75 |
| G  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| H  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| J  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| K  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| L  | BMVW4  | MT20   | 3.0 | 4.0 |      |      |
| M  | BS4    | MT20   | 3.0 | 5.0 |      |      |
| N  | BMVW4  | MT20   | 3.0 | 8.0 |      |      |
| O  | BMVW4  | MT20   | 3.0 | 4.0 |      |      |
| P  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| Q  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| Q  | 2026           | 0                | 2026  | 0    |
| J  | 2026           | 0                | 2026  | 0    |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS            |
|----|----------|------------------------------------------|
| JT | COMBINED | SNOW LIVE PERM. LIVE WIND DEAD SOIL      |
| Q  | 1414     | 1037 / 0 0 / 0 0 / 0 0 / 0 376 / 0 0 / 0 |
| J  | 1414     | 1037 / 0 0 / 0 0 / 0 0 / 0 376 / 0 0 / 0 |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.58 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. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC)   | MEMB. | MAX. FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC) |
| FR-TO  |                  |                           |                 | FR-TO |                  |                           |               |
| A-B    | 0 / 36           | -119.4                    | -119.4 0.16 (1) | P-C   | -419 / 0         | 0.08 (1)                  |               |
| B-C    | -2549 / 0        | -119.4                    | -119.4 0.30 (1) | C-O   | -168 / 0         | 0.07 (1)                  |               |
| C-D    | -2446 / 0        | -119.4                    | -119.4 0.29 (1) | O-D   | 0 / 198          | 0.04 (1)                  |               |
| D-E    | -2685 / 0        | -119.4                    | -119.4 0.57 (1) | D-N   | 0 / 687          | 0.15 (1)                  |               |
| E-F    | -2685 / 0        | -119.4                    | -119.4 0.57 (1) | N-E   | -811 / 0         | 0.32 (1)                  |               |
| F-G    | -2446 / 0        | -119.4                    | -119.4 0.29 (1) | N-F   | 0 / 687          | 0.15 (1)                  |               |
| G-H    | -2549 / 0        | -119.4                    | -119.4 0.30 (1) | L-F   | 0 / 198          | 0.04 (1)                  |               |
| H-I    | 0 / 36           | -119.4                    | -119.4 0.16 (1) | L-G   | -168 / 0         | 0.07 (1)                  |               |
| Q-B    | -1988 / 0        | 0.0                       | 0.0 0.20 (1)    | K-G   | -419 / 0         | 0.08 (1)                  |               |
| J-H    | -1988 / 0        | 0.0                       | 0.0 0.20 (1)    | B-P   | 0 / 2350         | 0.53 (1)                  |               |
|        |                  |                           |                 | K-H   | 0 / 2350         | 0.53 (1)                  |               |
| Q-P    | 0 / 0            | -18.2                     | -18.2 0.07 (4)  |       |                  |                           |               |
| P-O    | 0 / 2301         | -18.2                     | -18.2 0.42 (1)  |       |                  |                           |               |
| O-N    | 0 / 2169         | -18.2                     | -18.2 0.40 (1)  |       |                  |                           |               |
| N-M    | 0 / 2169         | -18.2                     | -18.2 0.40 (1)  |       |                  |                           |               |
| M-L    | 0 / 2169         | -18.2                     | -18.2 0.40 (1)  |       |                  |                           |               |
| L-K    | 0 / 2301         | -18.2                     | -18.2 0.42 (1)  |       |                  |                           |               |
| K-J    | 0 / 0            | -18.2                     | -18.2 0.07 (4)  |       |                  |                           |               |

**DESIGN CRITERIA**

## SPECIFIED LOADS:

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

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

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

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

THIS DESIGN COMPLIES WITH:

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

(55% OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")CSI: TC=0.57/0.97 (D-E:1), BC=0.42/0.97 (K-L:1),  
WB=0.53/0.97 (H-K:1), SS=0.32/1.00 (D-E:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PS)  | (PL)      | (PS)  | (PL)    |
| MT20  | 650       | 371   | 1747    |

MAX MIN MAX MIN MAX MIN  
1788 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP = 0.88 (P) (INPUT = 0.90)

JSI METAL = 0.69 (M) (INPUT = 1.00)

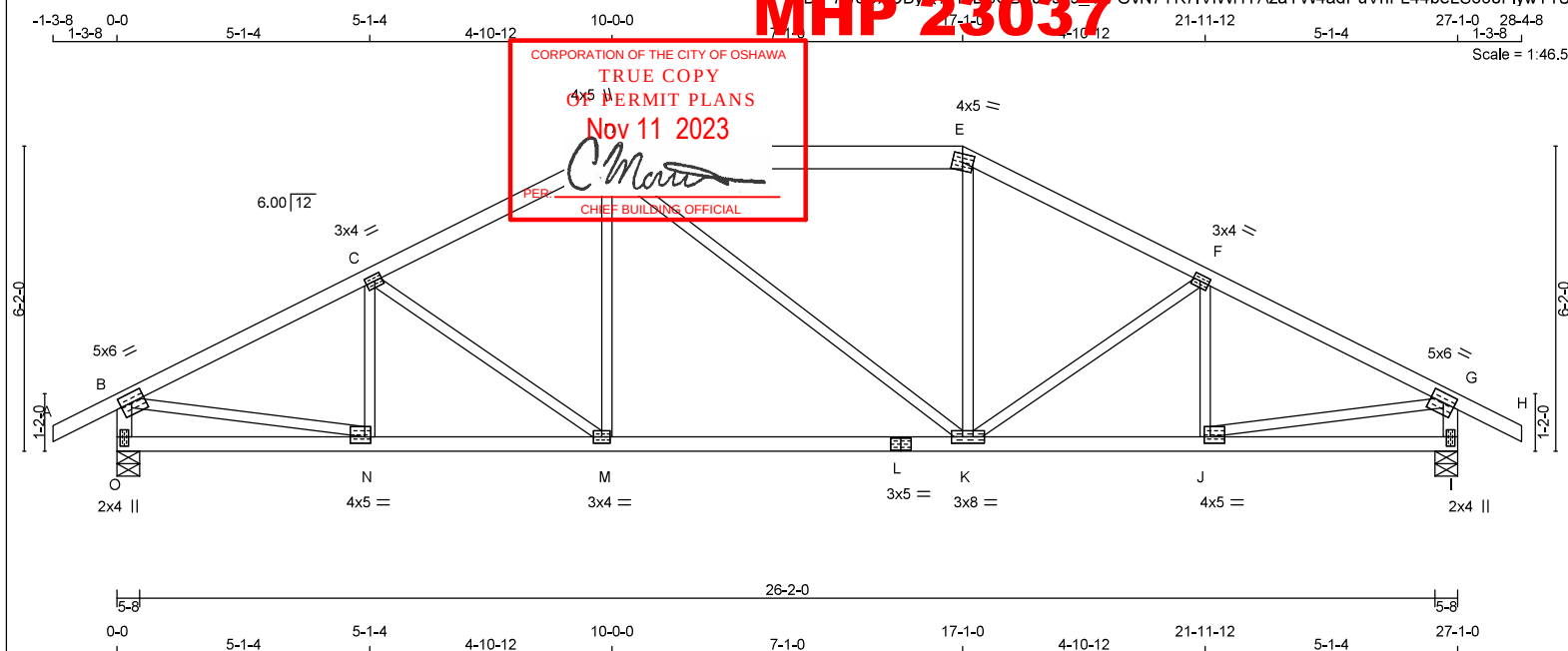


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T02        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER | DESCR. |
|-------------------|--------|------|--------|--------|
| A - D             | 2x4    | DRY  | No.2   | SPF    |
| D - E             | 2x6    | DRY  | No.2   | SPF    |
| E - H             | 2x4    | DRY  | No.2   | SPF    |
| O - B             | 2x4    | DRY  | No.2   | SPF    |
| I - G             | 2x4    | DRY  | No.2   | SPF    |
| O - L             | 2x4    | DRY  | No.2   | SPF    |
| L - 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  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| C  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| D  | TTWV+m | MT20   | 4.0 | 5.0 | 2.00 | 1.75 |
| E  | TTWV-m | MT20   | 4.0 | 5.0 |      |      |
| F  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| G  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| I  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| J  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| K  | BMVW4  | MT20   | 3.0 | 8.0 |      |      |
| L  | BS4    | MT20   | 3.0 | 5.0 |      |      |
| M  | BMVW4  | MT20   | 3.0 | 4.0 |      |      |
| N  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| O  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

|    | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|----|-------------------------|---------------------------------|-----------|-----------|
| JT | VERT                    | HORZ                            | DOWN      | HORZ      |
| O  | 2026                    | 0                               | 2026      | 0         |
| I  | 2026                    | 0                               | 2026      | 0         |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | MAX. MIN. COMPONENT REACTIONS | WIND  | DEAD    | SOIL  |
|----|----------|-------------------------------|-------|---------|-------|
| O  | 1414     | 1037 / 0                      | 0 / 0 | 376 / 0 | 0 / 0 |
| I  | 1414     | 1037 / 0                      | 0 / 0 | 376 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 3.78 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS    | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1      | MAX. UNBRACED LENGTH | MEMB. | WEBS     | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|-----------|---------------------------|------------------|----------|----------------------|-------|----------|---------------------------|---------------|
| FR-TO |           |                           |                  |          |                      | FR-TO |          |                           |               |
| A-B   | 0 / 36    | -119.4                    | -119.4           | 0.16 (1) | 10.00                | N-C   | -317 / 0 | 0.07 (1)                  |               |
| B-C   | -2618 / 0 | -119.4                    | -119.4           | 0.47 (1) | 3.78                 | C-M   | -410 / 0 | 0.24 (1)                  |               |
| C-D   | -2300 / 0 | -119.4                    | -119.4           | 0.44 (1) | 4.03                 | M-D   | 0 / 358  | 0.08 (1)                  |               |
| D-E   | -2029 / 0 | -119.4                    | -119.4           | 0.40 (1) | 5.14                 | D-K   | 0 / 0    | 0.00 (1)                  |               |
| E-F   | -2301 / 0 | -119.4                    | -119.4           | 0.44 (1) | 4.03                 | K-E   | 0 / 359  | 0.08 (1)                  |               |
| F-G   | -2618 / 0 | -119.4                    | -119.4           | 0.47 (1) | 3.78                 | K-F   | -408 / 0 | 0.24 (1)                  |               |
| G-H   | 0 / 36    | -119.4                    | -119.4           | 0.16 (1) | 10.00                | J-F   | -318 / 0 | 0.07 (1)                  |               |
| O-B   | -1982 / 0 | 0.0                       | 0.0              | 0.20 (1) | 5.91                 | B-N   | 0 / 2402 | 0.54 (1)                  |               |
| I-G   | -1982 / 0 | 0.0                       | 0.0              | 0.20 (1) | 5.91                 | J-G   | 0 / 2402 | 0.54 (1)                  |               |
| O-N   | 0 / 0     | -18.2                     | -18.2            | 0.10 (4) | 10.00                |       |          |                           |               |
| N-M   | 0 / 2369  | -18.2                     | -18.2            | 0.47 (1) | 10.00                |       |          |                           |               |
| M-L   | 0 / 2029  | -18.2                     | -18.2            | 0.42 (1) | 10.00                |       |          |                           |               |
| L-K   | 0 / 2029  | -18.2                     | -18.2            | 0.42 (1) | 10.00                |       |          |                           |               |
| K-J   | 0 / 2369  | -18.2                     | -18.2            | 0.47 (1) | 10.00                |       |          |                           |               |
| J-I   | 0 / 0     | -18.2                     | -18.2            | 0.10 (4) | 10.00                |       |          |                           |               |

**DESIGN CRITERIA**

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

**SPACING = 24.0 IN./C**

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL)= L/360 (0.90")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.10")  
 ALLOWABLE DEFL.(TL)= L/360 (0.90")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.21")

CSI: TC=0.47/0.97 (B-C:1) , BC=0.47/0.97 (J-K:1) ,  
 WB=0.54/0.97 (B-N:1) , SS=0.26/1.00 (F-G: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)  
 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 (D) (INPUT = 0.90 )  
 JSI METAL = 0.68 (N) (INPUT = 1.00 )

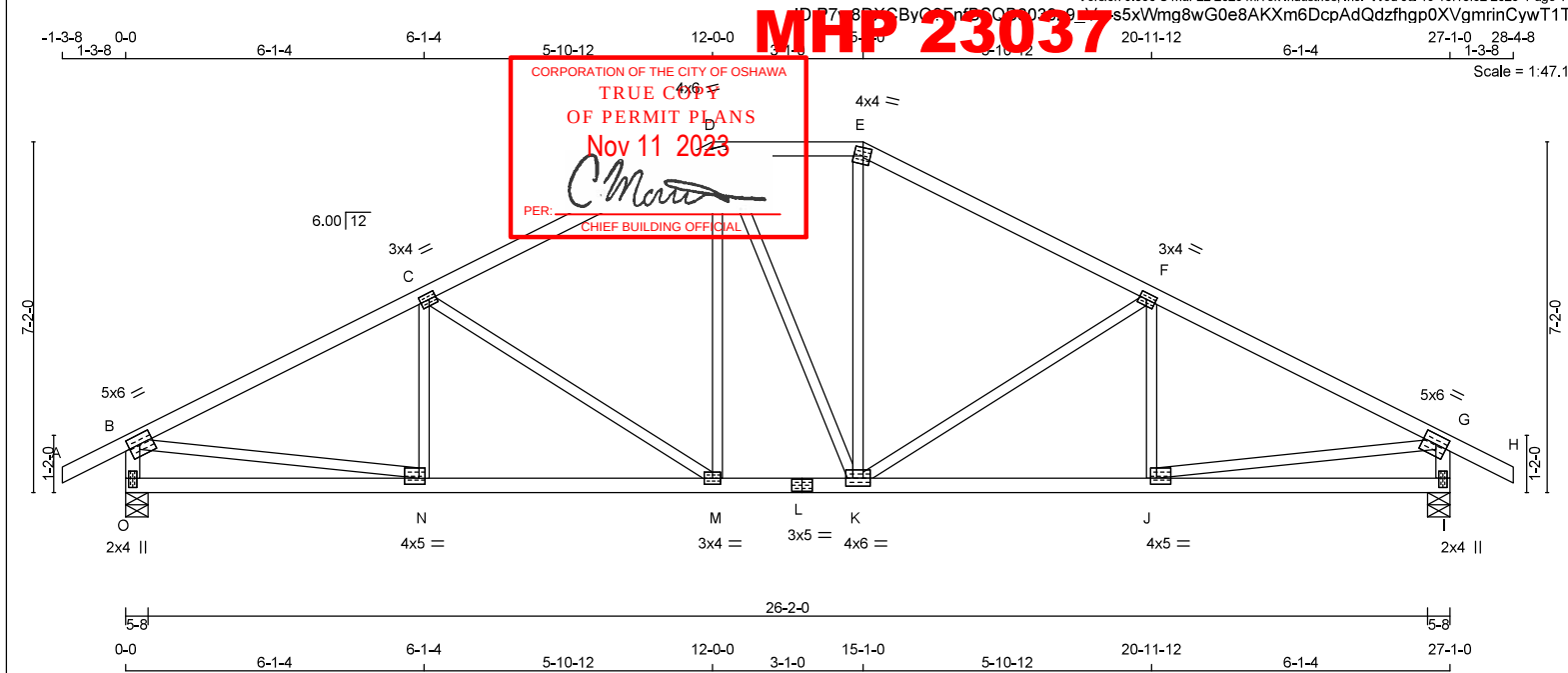


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 CONTAINS SPECIFICATIONS AND CRITERIA USED  
 IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T03        | 1        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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|                       |      |        |        |                                                                                             |  |  |  |                                                                                            |  |  |  |
|-----------------------|------|--------|--------|---------------------------------------------------------------------------------------------|--|--|--|--------------------------------------------------------------------------------------------|--|--|--|
| <b>LUMBER</b>         |      |        |        | <b>DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING</b> |  |  |  | <b>DESIGN CRITERIA</b>                                                                     |  |  |  |
| N. L. G. A. RULES     |      |        |        | <b>DESIGNER</b>                                                                             |  |  |  | SPECIFIED LOADS:                                                                           |  |  |  |
| CHORDS                | SIZE | LUMBER | DESCR. | <b>BEARINGS</b>                                                                             |  |  |  | TOP CH. LL = 34.8 PSF                                                                      |  |  |  |
| A - D                 | 2x4  | DRY    | No.2   | FACTORED                                                                                    |  |  |  | DL = 6.0 PSF                                                                               |  |  |  |
| D - E                 | 2x4  | DRY    | No.2   | GROSS REACTION                                                                              |  |  |  | BOT CH. LL = 0.0 PSF                                                                       |  |  |  |
| E - H                 | 2x4  | DRY    | No.2   | JT VERT                                                                                     |  |  |  | DL = 7.3 PSF                                                                               |  |  |  |
| O - B                 | 2x4  | DRY    | No.2   | O 2026 0 2026 0 0 5-8 3-1                                                                   |  |  |  | TOTAL LOAD = 48.1 PSF                                                                      |  |  |  |
| I - G                 | 2x4  | DRY    | No.2   | I 2026 0 2026 0 0 5-8 3-1                                                                   |  |  |  | <b>SPACING = 24.0 IN./C</b>                                                                |  |  |  |
| O - L                 | 2x4  | DRY    | No.2   | <b>UNFACTORED REACTIONS</b>                                                                 |  |  |  | LOADING IN FLAT SECTION BASED ON A SLOPE OF 2.00/12 MINIMUM                                |  |  |  |
| L - I                 | 2x4  | DRY    | No.2   | 1ST CASE MAX. MIN. COMPONENT REACTIONS                                                      |  |  |  | THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, NBCC 2015 |  |  |  |
| ALL WEBS              | 2x3  | DRY    | No.2   | JT COMBINED SNOW LIVE PERM. LIVE WIND DEAD SOIL                                             |  |  |  | THIS DESIGN COMPLIES WITH:                                                                 |  |  |  |
| EXCEPT                |      |        |        | I 1414 1037 / 0 0 / 0 0 / 0 376 / 0 0 / 0                                                   |  |  |  | - PART 9 OF CBC 2018, NBC-2019AE                                                           |  |  |  |
| DRY: SEASONED LUMBER. |      |        |        | I 1414 1037 / 0 0 / 0 0 / 0 376 / 0 0 / 0                                                   |  |  |  | - PART 9 OF OBC 2012 (2019 AMENDMENT)                                                      |  |  |  |

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| C  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| D  | TTWV-m | MT20   | 4.0 | 6.0 | 1.75 | 2.25 |
| E  | TTWV-m | MT20   | 4.0 | 4.0 | 2.00 | 1.75 |
| F  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| G  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| I  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| J  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| K  | BMVW4  | MT20   | 4.0 | 6.0 |      |      |
| L  | BS4    | MT20   | 3.0 | 5.0 |      |      |
| M  | BMVW4  | MT20   | 3.0 | 4.0 |      |      |
| N  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| O  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

| FR-TO | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1    | MAX. UNBRACED LENGTH | FR-TO | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |          |
|-------|---------------------------|------------------|--------|----------------------|-------|---------------------------|----------------------|----------|
| A-B   | 0 / 36                    | -119.4           | -119.4 | 0.16 (1)             | 10.00 | N-C                       | -216 / 53            | 0.06 (1) |
| B-C   | -2643 / 0                 | -119.4           | -119.4 | 0.69 (1)             | 3.43  | C-M                       | -698 / 0             | 0.69 (1) |
| C-D   | -2066 / 0                 | -119.4           | -119.4 | 0.62 (1)             | 3.92  | M-D                       | 0 / 456              | 0.10 (1) |
| D-E   | -1821 / 0                 | -119.4           | -119.4 | 0.18 (1)             | 4.77  | D-K                       | 0 / 4                | 0.00 (1) |
| E-F   | -2068 / 0                 | -119.4           | -119.4 | 0.62 (1)             | 3.92  | K-E                       | 0 / 460              | 0.10 (1) |
| F-G   | -2642 / 0                 | -119.4           | -119.4 | 0.69 (1)             | 3.43  | K-F                       | -696 / 0             | 0.69 (1) |
| G-H   | 0 / 36                    | -119.4           | -119.4 | 0.16 (1)             | 10.00 | J-F                       | -218 / 52            | 0.06 (1) |
| O-B   | -1979 / 0                 | 0.0              | 0.0    | 0.20 (1)             | 5.92  | B-N                       | 0 / 2421             | 0.54 (1) |
| I-G   | -1978 / 0                 | 0.0              | 0.0    | 0.20 (1)             | 5.92  | J-G                       | 0 / 2421             | 0.54 (1) |

| FR-TO | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1   | MAX. UNBRACED LENGTH | FR-TO | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH |
|-------|---------------------------|------------------|-------|----------------------|-------|---------------------------|----------------------|
| O-N   | 0 / 0                     | -18.2            | -18.2 | 0.16 (4)             | 10.00 |                           |                      |
| N-M   | 0 / 2398                  | -18.2            | -18.2 | 0.45 (1)             | 10.00 |                           |                      |
| M-L   | 0 / 1819                  | -18.2            | -18.2 | 0.35 (1)             | 10.00 |                           |                      |
| L-K   | 0 / 1819                  | -18.2            | -18.2 | 0.35 (1)             | 10.00 |                           |                      |
| K-J   | 0 / 2397                  | -18.2            | -18.2 | 0.45 (1)             | 10.00 |                           |                      |
| J-I   | 0 / 0                     | -18.2            | -18.2 | 0.16 (4)             | 10.00 |                           |                      |



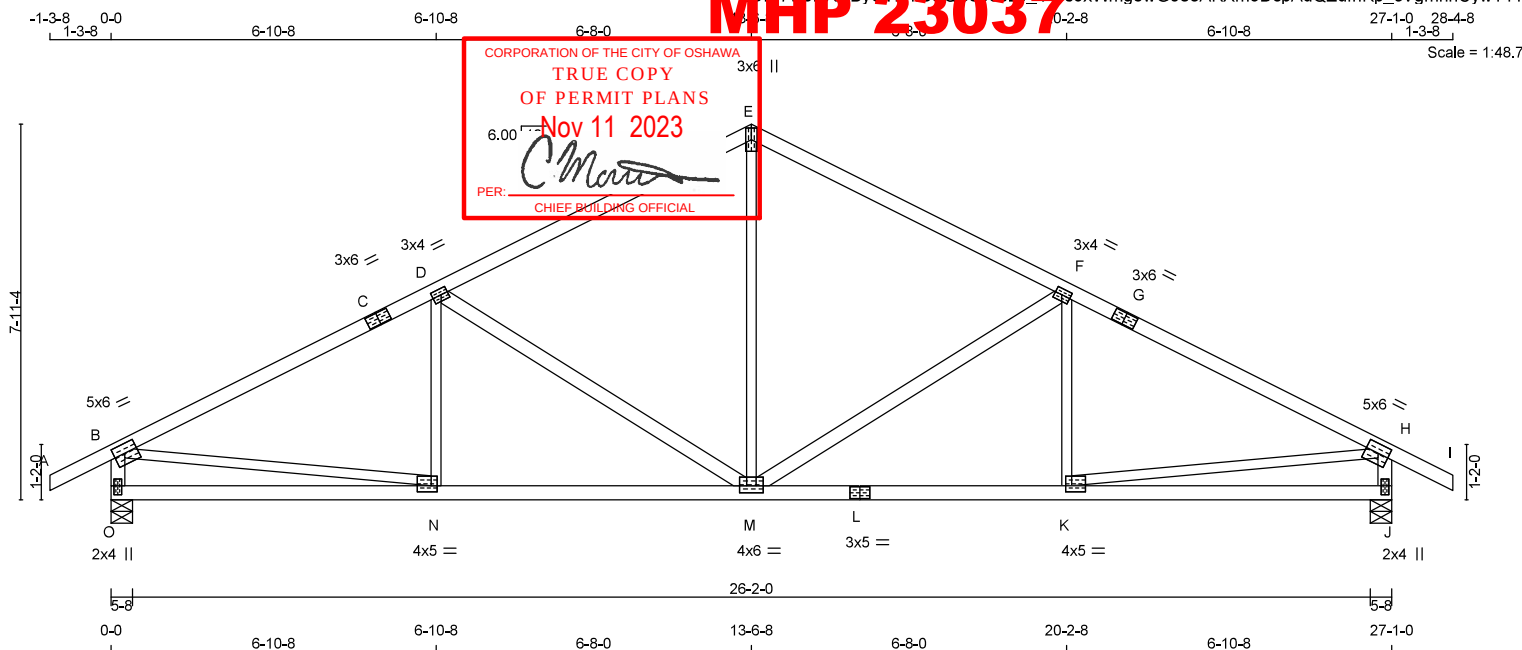
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | T04        | 8        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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MHP 23037



TOTAL WEIGHT = 8 X 111 = 889 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|-------------------|--------|------|--------|
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| G - I             | 2x4    | DRY  | No.2   |
| O - B             | 2x4    | DRY  | No.2   |
| J - H             | 2x4    | DRY  | No.2   |
| O - L             | 2x4    | DRY  | No.2   |
| L - J             | 2x4    | DRY  | No.2   |

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x3 | DRY | No.2 |
| EXCEPT   |     |     |      |
| M - F    | 2x4 | DRY | No.2 |
| D - M    | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| C  | TS4    | MT20   | 3.0 | 6.0 |      |      |
| D  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| E  | TTW+p  | MT20   | 3.0 | 6.0 |      |      |
| F  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| G  | TS4    | MT20   | 3.0 | 6.0 |      |      |
| H  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| J  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| K  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| L  | BS4    | MT20   | 3.0 | 5.0 |      |      |
| M  | BMVW4  | MT20   | 4.0 | 6.0 | 1.75 | 3.00 |
| N  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| O  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

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

**UNFACTORED REACTIONS**

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

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 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) | VERT. LOAD (PLF) | MAX. CSI (LC)   | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |          |
| FR-TO  |                           |                  |                 | FR-TO |                           |               |          |
| A-B    | 0 / 36                    | -119.4           | -119.4 0.16 (1) | 10.00 | M-E                       | 0 / 1065      | 0.24 (1) |
| B-C    | -2635 / 0                 | -119.4           | -119.4 0.91 (1) | 2.95  | M-F                       | -871 / 0      | 0.81 (1) |
| C-D    | -2635 / 0                 | -119.4           | -119.4 0.91 (1) | 2.95  | K-F                       | -166 / 76     | 0.05 (1) |
| D-E    | -1904 / 0                 | -119.4           | -119.4 0.79 (1) | 3.65  | D-M                       | -871 / 0      | 0.81 (1) |
| E-F    | -1904 / 0                 | -119.4           | -119.4 0.79 (1) | 3.65  | N-D                       | -166 / 76     | 0.05 (1) |
| F-G    | -2635 / 0                 | -119.4           | -119.4 0.91 (1) | 2.95  | B-N                       | 0 / 2414      | 0.54 (1) |
| G-H    | -2635 / 0                 | -119.4           | -119.4 0.91 (1) | 2.95  | K-H                       | 0 / 2414      | 0.54 (1) |
| H-I    | 0 / 36                    | -119.4           | -119.4 0.16 (1) | 10.00 |                           |               |          |
| O-B    | -1973 / 0                 | 0.0              | 0.0 0.20 (1)    | 5.92  |                           |               |          |
| J-H    | -1973 / 0                 | 0.0              | 0.0 0.20 (1)    | 5.92  |                           |               |          |
| O-N    | 0 / 0                     | -18.2            | -18.2 0.20 (4)  | 10.00 |                           |               |          |
| N-M    | 0 / 2395                  | -18.2            | -18.2 0.47 (1)  | 10.00 |                           |               |          |
| M-L    | 0 / 2395                  | -18.2            | -18.2 0.47 (1)  | 10.00 |                           |               |          |
| L-K    | 0 / 2395                  | -18.2            | -18.2 0.47 (1)  | 10.00 |                           |               |          |
| K-J    | 0 / 0                     | -18.2            | -18.2 0.20 (4)  | 10.00 |                           |               |          |

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

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

**SPACING = 24.0 IN./C**

THIS TRUSS IS DESIGNED FOR RESIDENTIAL OR SMALL BUILDING REQUIREMENTS OF PART 9, 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 LOADALLOWABLE DEFL.(LL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL)= L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")CSI: TC=0.91/0.97 (F-H:1), BC=0.47/0.97 (K-M:1),  
WB=0.81/0.97 (F-M:1), SSI=0.35/1.00 (B-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

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

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

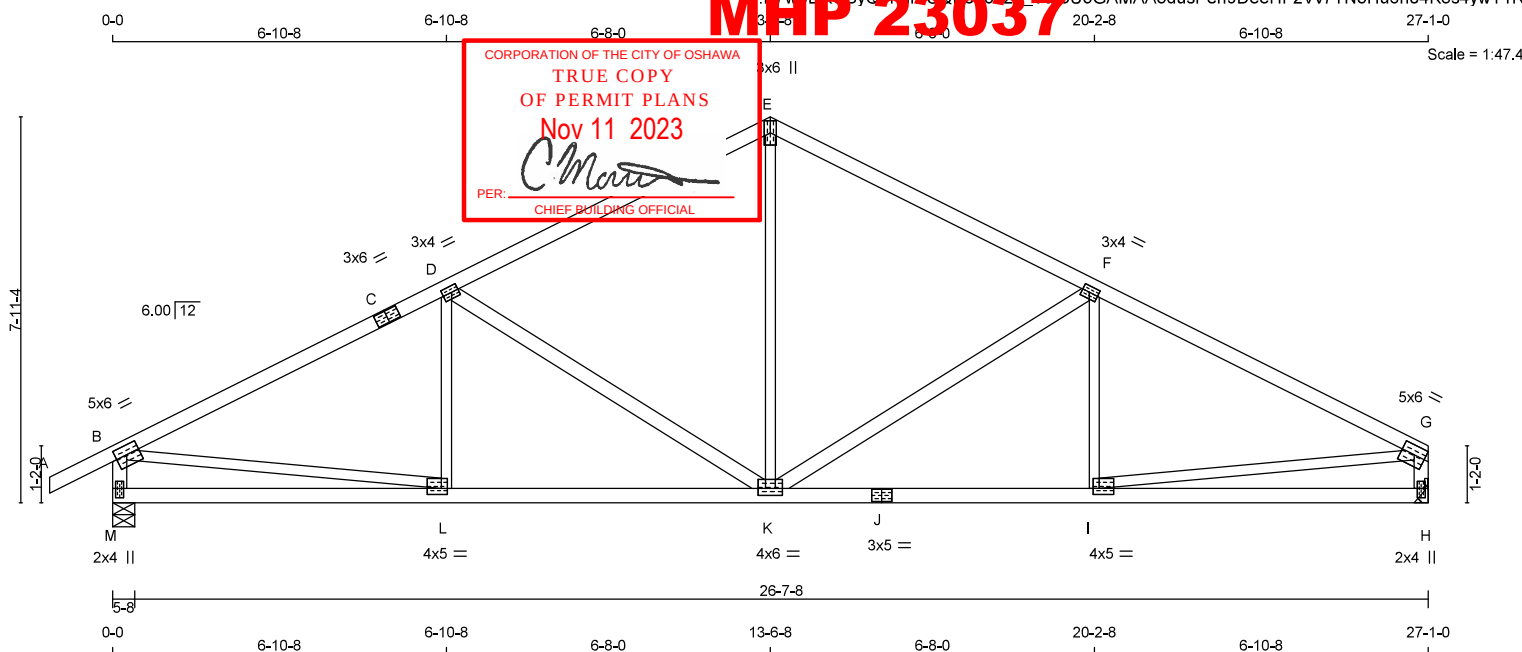






|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | T06        | 2        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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TOTAL WEIGHT = 2 X 110 = 219 lb

**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER |
|-------------------|--------|------|--------|
| A - C             | 2x4    | DRY  | No.2   |
| C - E             | 2x4    | DRY  | No.2   |
| E - G             | 2x4    | DRY  | No.2   |
| M - B             | 2x4    | DRY  | No.2   |
| H - G             | 2x4    | DRY  | No.2   |
| M - J             | 2x4    | DRY  | No.2   |
| J - H             | 2x4    | DRY  | No.2   |

|          |     |     |      |
|----------|-----|-----|------|
| ALL WEBS | 2x3 | DRY | No.2 |
| EXCEPT   |     |     |      |
| K - F    | 2x4 | DRY | No.2 |
| D - K    | 2x4 | DRY | No.2 |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | 2.75 |
| C  | TS4    | MT20   | 3.0 | 6.0 |      |      |
| D  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| E  | TTW+p  | MT20   | 3.0 | 6.0 |      |      |
| F  | TMVW4  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| G  | TMVW4  | MT20   | 5.0 | 6.0 | 2.25 | Edge |
| H  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| I  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| J  | BS4    | MT20   | 3.0 | 5.0 |      |      |
| K  | BMVW4  | MT20   | 4.0 | 6.0 | 1.75 | 3.00 |
| L  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.50 |
| M  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

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

A SUITABLE HANGER/MECHANICAL CONNECTION IS REQUIRED AT JOINT H. MINIMUM BEARING LENGTH AT JOINT H = 2-9.

**UNFACTORED REACTIONS**

|   | 1ST LOASE | MAX./MIN. COMPONENT REACTIONS |       |           |       |         |       |
|---|-----------|-------------------------------|-------|-----------|-------|---------|-------|
|   | COMBINED  | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
| M | 1414      | 1037 / 0                      | 0 / 0 | 0 / 0     | 0 / 0 | 376 / 0 | 0 / 0 |
| H | 1303      | 943 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 360 / 0 | 0 / 0 |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 2.95 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 LC1 (PLF) | MAX. UNBRACED LENGTH FR-TO (LC) | MEMB.   | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH FR-TO (LC) |          |
| FR-TO       |                           |                               |                                 | FR-TO   |                           |                                 |          |
| A-B         | 0 / 36                    | -119.4                        | -119.4 0.16 (1)                 | 10.00   | K-E                       | 0 / 1065                        | 0.24 (1) |
| B-C         | -2635 / 0                 | -119.4                        | -119.4 0.91 (1)                 | 2.95    | K-F                       | -871 / 0                        | 0.81 (1) |
| C-D         | -2635 / 0                 | -119.4                        | -119.4 0.91 (1)                 | 2.95    | I-F                       | -166 / 76                       | 0.05 (1) |
| D-E         | -1904 / 0                 | -119.4                        | -119.4 0.79 (1)                 | 3.65    | D-K                       | -871 / 0                        | 0.81 (1) |
| E-F         | -1904 / 0                 | -119.4                        | -119.4 0.79 (1)                 | 3.65    | L-D                       | -166 / 76                       | 0.05 (1) |
| F-G         | -2635 / 0                 | -119.4                        | -119.4 0.91 (1)                 | 2.95    | B-L                       | 0 / 2414                        | 0.54 (1) |
| M-B         | -1973 / 0                 | 0.0                           | 0.0 0.20 (1)                    | 5.92    | I-G                       | 0 / 2414                        | 0.54 (1) |
| H-G         | -1811 / 0                 | 0.0                           | 0.0 0.18 (1)                    | 6.13    |                           |                                 |          |
| M-L         | 0 / 0                     | -18.2                         | -18.2 0.20 (4)                  | 10.00   |                           |                                 |          |
| L-K         | 0 / 2395                  | -18.2                         | -18.2 0.47 (1)                  | 10.00   |                           |                                 |          |
| K-J         | 0 / 2395                  | -18.2                         | -18.2 0.47 (1)                  | 10.00   |                           |                                 |          |
| J-I         | 0 / 2395                  | -18.2                         | -18.2 0.47 (1)                  | 10.00   |                           |                                 |          |
| I-H         | 0 / 0                     | -18.2                         | -18.2 0.20 (4)                  | 10.00   |                           |                                 |          |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.12")  
ALLOWABLE DEFL.(TL) = L/360 (0.90")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.21")CSI: TC=0.91/0.97 (F-G:1), BC=0.47/0.97 (I-K:1),  
WB=0.81/0.97 (F-K:1), SSI=0.35/1.00 (B-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

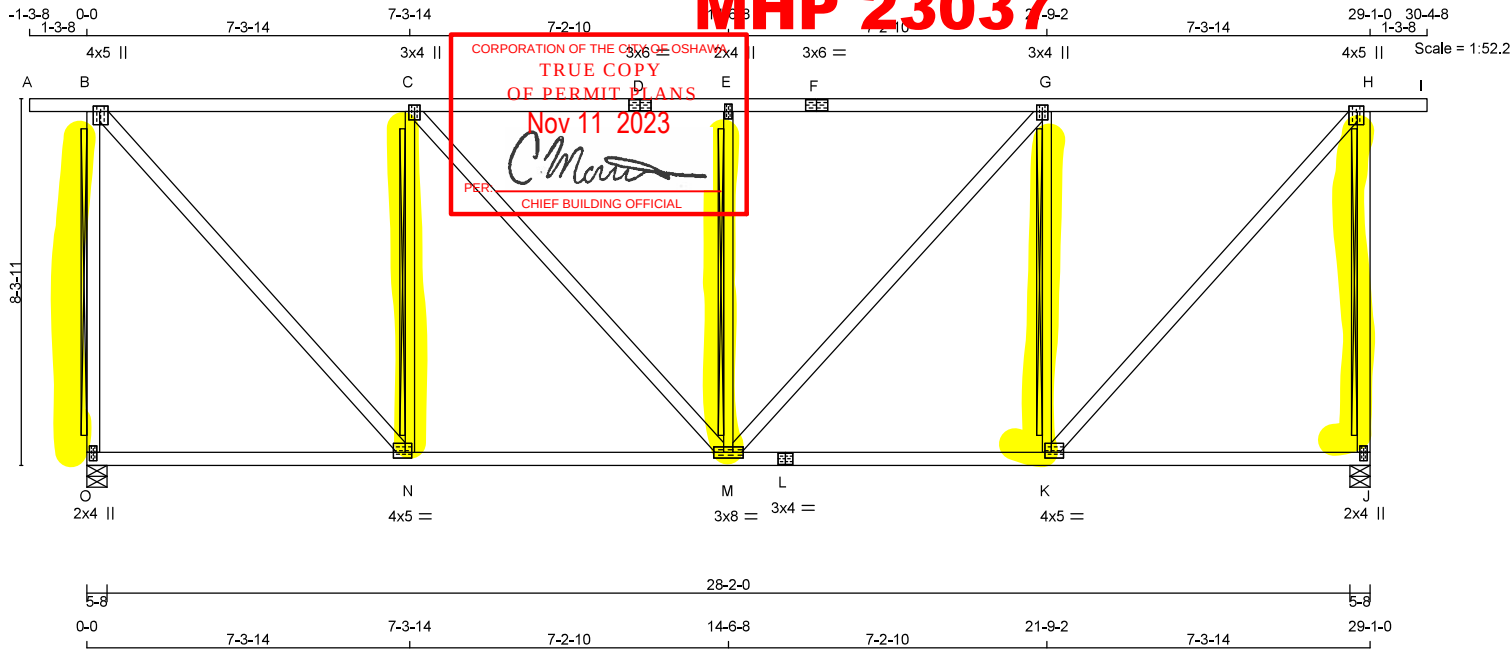
JSI GRIP= 0.89 (B) (INPUT = 0.90)  
JSI METAL = 0.74 (J) (INPUT = 1.00)

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



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T07        | 2        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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TOTAL WEIGHT = 2 X 153 = 306 lb

**LUMBER**

## N. L. G. A. RULES

| CHORDS | SIZE | LUMBER         |
|--------|------|----------------|
| O - B  | 2x4  | DRY No.2       |
| A - D  | 2x4  | DRY 2100F 1.8E |
| D - F  | 2x4  | DRY 2100F 1.8E |
| F - I  | 2x4  | DRY 2100F 1.8E |
| J - H  | 2x4  | DRY No.2       |
| O - L  | 2x4  | DRY No.2       |
| L - J  | 2x4  | DRY No.2       |

| ALL WEBS | EXCEPT | SIZE | LUMBER |
|----------|--------|------|--------|
| N - C    | 2x3    | DRY  | No.2   |
| M - E    | 2x3    | DRY  | No.2   |
| K - G    | 2x3    | DRY  | No.2   |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| C  | TMVW+t | MT20   | 3.0 | 4.0 | 1.75 | 1.50 |
| D  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| E  | TMVW+h | MT20   | 2.0 | 4.0 |      |      |
| F  | TS-t   | MT20   | 3.0 | 6.0 |      |      |
| G  | TMVW+t | MT20   | 3.0 | 4.0 | 1.75 | 1.50 |
| H  | TMVW+p | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| J  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| K  | BMVW-t | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| L  | BS-t   | MT20   | 3.0 | 4.0 |      |      |
| M  | BMVW+h | MT20   | 3.0 | 8.0 |      |      |
| N  | BMVW-t | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| O  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| O  | 2156           | 0                | 2156  | 0    |
| J  | 2156           | 0                | 2156  | 0    |

**UNFACTORED REACTIONS**

|    | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----|----------|-------------------------------|
|    | COMBINED | SNOW                          |
| JT | 1505     | 1102 / 0                      |
| O  | 1505     | 1102 / 0                      |
| J  | 1505     | 1102 / 0                      |

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

**BRACING**TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.70 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

2x4 DRY SPF No.2 T-BRACE AT B-O, H-J, C-N, E-M, G-K

FASTEN T AND I-BRACES TO NARROW EDGE OF WEB WITH ONE ROW PER PLY OF 3" COMMON WIRE NAILS @ 6" O.C. WITH 3" MINIMUM END DISTANCE. BRACE MUST COVER 90% OF WEB LENGTH.

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

**LOADING**

TOTAL LOAD CASES: (4)

|     | CHORDS            | WEBS                   |
|-----|-------------------|------------------------|
|     | MAX. FACTORED     | MAX. FACTORED          |
|     | MEMB. FORCE (LBS) | MEMB. FORCE (LBS)      |
|     | VERT. LOAD        | VERT. LOAD             |
|     | FROM TO           | FROM TO                |
| Q-B | -2103 / 0         | 0.0 0.0 0.83 (1)       |
| A-B | 0 / 0             | -119.4 -119.4 0.09 (1) |
| B-C | -1465 / 0         | -119.4 -119.4 0.69 (1) |
| C-D | -1877 / 0         | -119.4 -119.4 0.72 (1) |
| D-E | -1877 / 0         | -119.4 -119.4 0.72 (1) |
| E-F | -1877 / 0         | -119.4 -119.4 0.72 (1) |
| F-G | -1877 / 0         | -119.4 -119.4 0.72 (1) |
| G-H | -1465 / 0         | -119.4 -119.4 0.69 (1) |
| H-I | 0 / 0             | -119.4 -119.4 0.09 (1) |
| J-H | -2103 / 0         | 0.0 0.0 0.83 (1)       |

|     |          |                      |       |
|-----|----------|----------------------|-------|
| Q-N | 0 / 0    | -18.2 -18.2 0.24 (4) | 10.00 |
| N-M | 0 / 1465 | -18.2 -18.2 0.37 (1) | 10.00 |
| M-L | 0 / 1465 | -18.2 -18.2 0.37 (1) | 10.00 |
| L-K | 0 / 1465 | -18.2 -18.2 0.37 (1) | 10.00 |
| K-J | 0 / 0    | -18.2 -18.2 0.24 (4) | 10.00 |

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

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

**SPACING = 24.0 IN./C**

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

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F., G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.09")  
ALLOWABLE DEFL.(TL) = L/360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.17")CSI: TC=0.83/0.97 (B-O:1), BC=0.37/0.97 (M-N:1),  
WB=0.71/0.97 (G-K:1), SSI=0.41/1.00 (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)  
MAX MIN MAX MIN MAX MIN  
MT20 650 371 1747 788 1987 1873

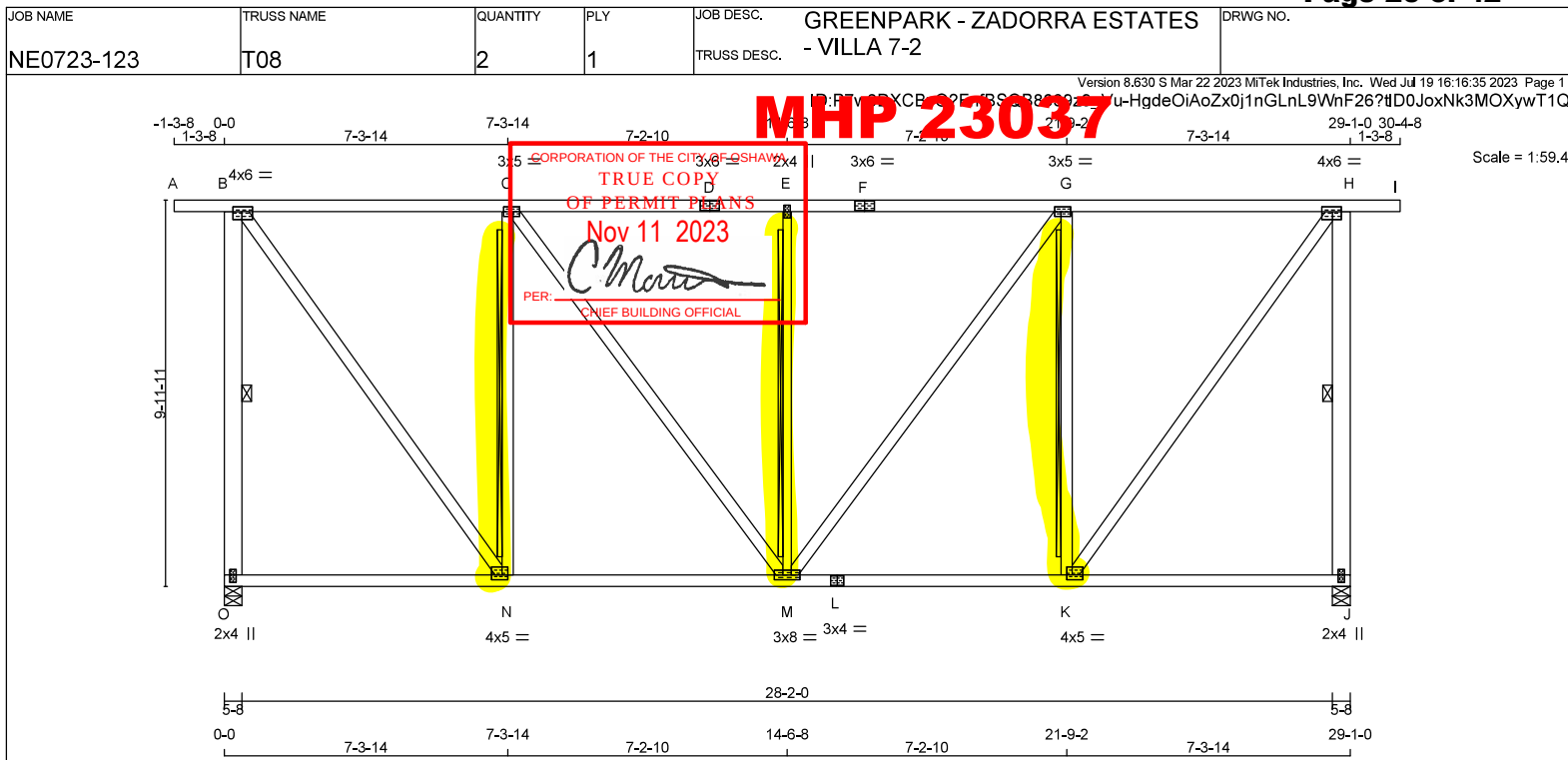
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (O) (INPUT = 0.90 )  
JSI METAL = 0.64 (B) (INPUT = 1.00 )

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



**LUMBER**

| N. L. G. A. RULES | CHORDS | SIZE | LUMBER     | DESCR. |
|-------------------|--------|------|------------|--------|
| O - B             | 2x6    | DRY  | No.2       | SPF    |
| A - D             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| D - F             | 2x4    | DRY  | No.2       | SPF    |
| F - I             | 2x4    | DRY  | 2100F 1.8E | SPF    |
| J - H             | 2x6    | DRY  | No.2       | SPF    |
| O - L             | 2x4    | DRY  | No.2       | SPF    |
| L - J             | 2x4    | DRY  | No.2       | SPF    |
| ALL WEBS          | 2x4    | DRY  | No.2       | SPF    |
| EXCEPT            |        |      |            |        |
| M - E             | 2x3    | DRY  | No.2       | SPF    |

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW4  | MT20   | 4.0 | 6.0 | 1.50 | 2.75 |
| C  | TMVW4  | MT20   | 3.0 | 5.0 | 1.50 | 2.00 |
| D  | TS4    | MT20   | 3.0 | 6.0 |      |      |
| E  | TMVW4  | MT20   | 2.0 | 4.0 |      |      |
| F  | TS4    | MT20   | 3.0 | 6.0 |      |      |
| G  | TMVW4  | MT20   | 3.0 | 5.0 | 1.50 | 2.00 |
| H  | TMVW4  | MT20   | 4.0 | 6.0 | 1.50 | 2.75 |
| J  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |
| K  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| L  | BS4    | MT20   | 3.0 | 4.0 |      |      |
| M  | BMVW4  | MT20   | 3.0 | 8.0 |      |      |
| N  | BMVW4  | MT20   | 4.0 | 5.0 | 1.50 | 1.75 |
| O  | BMV1+p | MT20   | 2.0 | 4.0 | 2.25 | 1.00 |

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

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| O  | 2156           | 0                | 2156  | 0    |
| J  | 2156           | 0                | 2156  | 0    |

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW     | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|----------|-------|------------|-------|---------|-------|
| O  | 1505     | 1102 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 402 / 0 | 0 / 0 |
| J  | 1505     | 1102 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 402 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.32 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF B-O, H-J, DBS = 14-0-0. CBF = 184 LBS.  
2x4 DRY SPF No.2 T-BRACE AT C-N, E-M, G-K

DBS = DIAGONAL BRACE SPACING (MAX), CBF = CUMULATIVE BRACING FORCE (PER BRACE), FASTEN LATERAL BRACE(S) USING (0.122"x3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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 | FACTORED   |          |          | MEMB. | MAX. FACTORED |           |
|        | FORCE         | VERT. LOAD | MAX      | MAX.     |       | FORCE         | MAX       |
|        | (LBS)         | LC1        | CSI (LC) | UNBRAC   |       | (LBS)         | CSI (LC)  |
| FR-TO  |               | FROM TO    |          | LENGTH   | FR-TO |               |           |
| O-B    | -2103 / 0     | 0.0        | 0.0      | 0.65 (1) | 5.54  | B-N           | 0 / 2012  |
| A-B    | 0 / 0         | -119.4     | -119.4   | 0.09 (1) | 10.00 | N-C           | -1452 / 0 |
| B-C    | -1214 / 0     | -119.4     | -119.4   | 0.68 (1) | 5.58  | C-M           | 0 / 564   |
| C-D    | -1551 / 0     | -119.4     | -119.4   | 0.71 (1) | 4.32  | M-E           | -785 / 0  |
| D-E    | -1551 / 0     | -119.4     | -119.4   | 0.71 (1) | 4.32  | M-G           | 0 / 564   |
| E-F    | -1551 / 0     | -119.4     | -119.4   | 0.71 (1) | 4.32  | K-G           | -1452 / 0 |
| F-G    | -1551 / 0     | -119.4     | -119.4   | 0.71 (1) | 4.32  | K-H           | 0 / 2012  |
| G-H    | -1214 / 0     | -119.4     | -119.4   | 0.68 (1) | 5.58  |               |           |
| H-I    | 0 / 0         | -119.4     | -119.4   | 0.09 (1) | 10.00 |               |           |
| J-H    | -2103 / 0     | 0.0        | 0.0      | 0.65 (1) | 5.54  |               |           |
| O-N    | 0 / 0         | -18.2      | -18.2    | 0.24 (4) | 10.00 |               |           |
| N-M    | 0 / 1214      | -18.2      | -18.2    | 0.33 (1) | 10.00 |               |           |
| M-L    | 0 / 1214      | -18.2      | -18.2    | 0.33 (1) | 10.00 |               |           |
| L-K    | 0 / 1214      | -18.2      | -18.2    | 0.33 (1) | 10.00 |               |           |
| K-J    | 0 / 0         | -18.2      | -18.2    | 0.24 (4) | 10.00 |               |           |

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

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

**SPACING = 24.0 IN./C**

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

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) = L / 360 (0.97")  
CALCULATED VERT. DEFL.(LL) = L / 999 (0.08")  
ALLOWABLE DEFL.(TL) = L / 360 (0.97")  
CALCULATED VERT. DEFL.(TL) = L / 999 (0.14")

CSI: TC=0.71/0.97 (E-G:1), BC=0.33/0.97 (M-N:1), WB=0.91/0.97 (G-K:1), SSI=0.41/1.00 (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)     | (PSI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |
|       |           | 788   | 1987    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (O) (INPUT = 0.90)  
JSI METAL = 0.44 (O) (INPUT = 1.00)

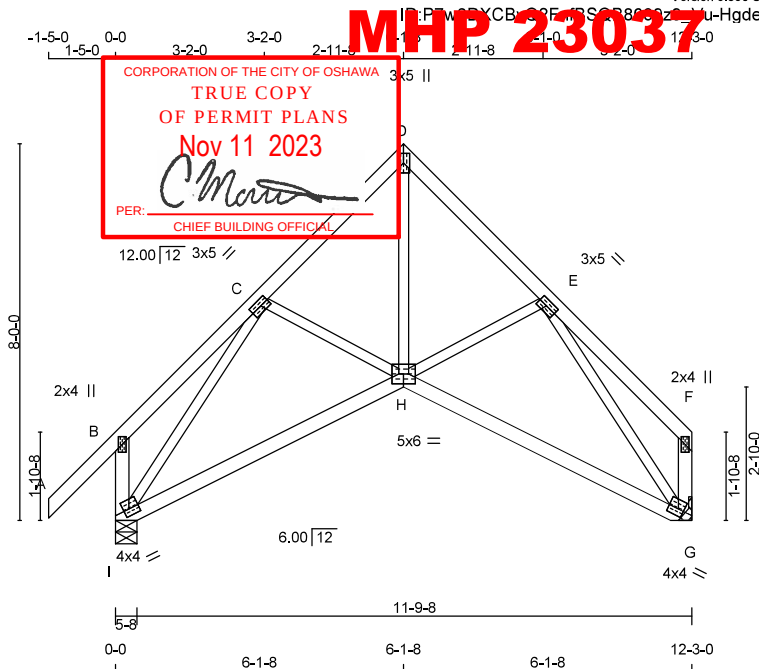


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T09        | 2        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:48.9

TOTAL WEIGHT = 2 X 60 = 119 lb

**LUMBER**

| N. L. G. A. RULES | SIZE | LUMBER   |
|-------------------|------|----------|
| CHORDS            |      |          |
| A - D             | 2x4  | DRY No.2 |
| D - F             | 2x4  | DRY No.2 |
| I - B             | 2x4  | DRY No.2 |
| G - F             | 2x4  | DRY No.2 |
| I - H             | 2x4  | DRY No.2 |
| H - G             | 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  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| C  | TMWW-H  | MT20   | 3.0 | 5.0 | 1.50 | 2.25 |
| D  | TTW+p   | MT20   | 3.0 | 5.0 |      |      |
| E  | TMWW-H  | MT20   | 3.0 | 5.0 | 1.50 | 2.25 |
| F  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| G  | BMVW14  | MT20   | 4.0 | 4.0 | 1.75 | 1.50 |
| H  | BBWWW-p | MT20   | 5.0 | 6.0 |      |      |
| I  | BMVW14  | MT20   | 4.0 | 4.0 | 1.75 | 1.50 |

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

| FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|-------------------------|---------------------------------|-----------|-----------|
| JT VERT                 | HORZ                            | DOWN      | HORZ      |
| I 1025                  | 0                               | 1025      | 0         |
| G 843                   | 0                               | 843       | 0         |

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

**UNFACTORED REACTIONS**

| 1ST LOASE   | MAX./MIN. COMPONENT REACTIONS           |
|-------------|-----------------------------------------|
| JT COMBINED | SNOW LIVE PERM.LIVE WIND DEAD SOIL      |
| I 713       | 532 / 0 0 / 0 0 / 0 0 / 0 181 / 0 0 / 0 |
| G 589       | 426 / 0 0 / 0 0 / 0 0 / 0 163 / 0 0 / 0 |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MEMB.    | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | WEBS  | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |
|--------|----------|---------------------------|---------------------------|---------------------------|-------|-------|---------------------------|---------------------------|
| FR-TO  |          |                           |                           |                           | FR-TO |       |                           |                           |
| A-B    | 0 / 64   | -119.4                    | -119.4                    | 0.20 (1)                  | 10.00 | H-D   | 0 / 783                   | 0.18 (1)                  |
| B-C    | 0 / 27   | -119.4                    | -119.4                    | 0.16 (1)                  | 10.00 | H-E   | -72 / 12                  | 0.02 (1)                  |
| C-D    | -788 / 0 | -119.4                    | -119.4                    | 0.13 (1)                  | 6.25  | C-H   | -72 / 12                  | 0.02 (1)                  |
| D-E    | -788 / 0 | -119.4                    | -119.4                    | 0.13 (1)                  | 6.25  | I-C   | -1121 / 0                 | 0.56 (1)                  |
| E-F    | 0 / 27   | -119.4                    | -119.4                    | 0.16 (1)                  | 10.00 | E-G   | -1121 / 0                 | 0.56 (1)                  |
| I-B    | -324 / 0 | 0.0                       | 0.0                       | 0.04 (1)                  | 7.81  |       |                           |                           |
| G-F    | -142 / 0 | 0.0                       | 0.0                       | 0.02 (1)                  | 7.81  |       |                           |                           |
| I-H    | 0 / 673  | -18.3                     | -18.3                     | 0.24 (4)                  | 10.00 |       |                           |                           |
| H-G    | 0 / 673  | -18.3                     | -18.3                     | 0.24 (4)                  | 10.00 |       |                           |                           |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.41")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.41")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.10")CSI: TC=0.20/0.97 (A-B:1), BC=0.24/0.97 (H-I:4),  
WB=0.56/0.97 (C-I:1), SSI=0.12/1.00 (C-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS=1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (E) (INPUT = 0.90)  
JSI METAL= 0.38 (I) (INPUT = 1.00)

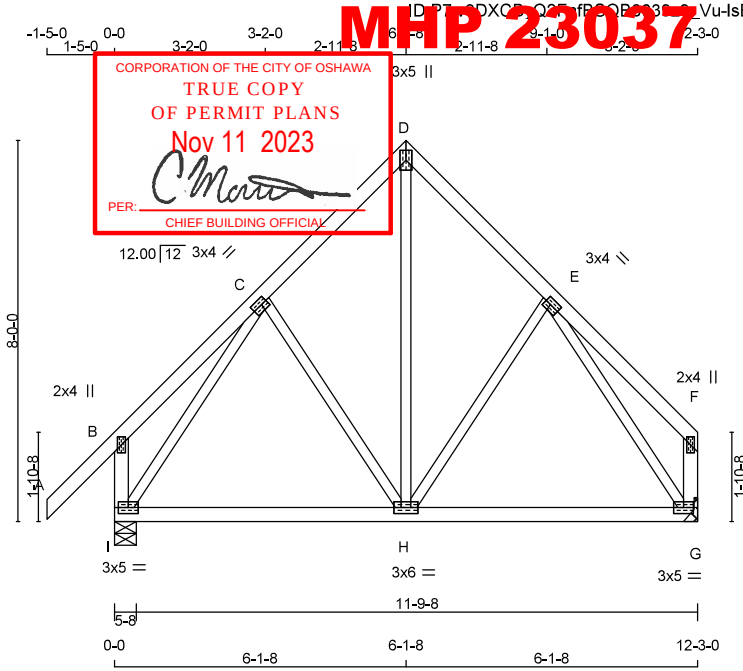
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|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | T10        | 1        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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Scale: 1/4"=1'

TOTAL WEIGHT = 63 lb

**LUMBER**

N. L. G. A. RULES

| CHORDS | SIZE | LUMBER   |
|--------|------|----------|
| A - D  | 2x4  | DRY No.2 |
| D - F  | 2x4  | DRY No.2 |
| I - B  | 2x4  | DRY No.2 |
| G - F  | 2x4  | DRY No.2 |
| I - G  | 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  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| C  | TMVW-H  | MT20   | 3.0 | 4.0 | 1.50 | 1.50 |
| D  | TTV+p   | MT20   | 3.0 | 5.0 |      |      |
| E  | TMVW-H  | MT20   | 3.0 | 4.0 | 1.50 | 1.50 |
| F  | TMV+p   | MT20   | 2.0 | 4.0 |      |      |
| G  | BMVW1-H | MT20   | 3.0 | 5.0 |      |      |
| H  | BMVW1-H | MT20   | 3.0 | 6.0 |      |      |
| I  | BMVW1-H | MT20   | 3.0 | 5.0 |      |      |

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

**DESIGNER BEARINGS**

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
|----|------|------|------|------|--------|------------|-------|
| I  | 1025 | 0    | 1025 | 0    | 0      | 5-8        | 1-8   |
| G  | 843  | 0    | 843  | 0    | 0      | MECHANICAL |       |

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

**UNFACTORED REACTIONS**

| JT | COMBINED | SNOW    | LIVE  | PERM.LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| I  | 713      | 532 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 181 / 0 | 0 / 0 |
| G  | 589      | 426 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 163 / 0 | 0 / 0 |

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

**BRACING**

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS  |                           |                           |          |
|--------|---------------------------|---------------------------|---------------------------|-------|---------------------------|---------------------------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |
| FR-TO  |                           | FROM TO                   |                           | FR-TO |                           |                           |          |
| A-B    | 0 / 64                    | -119.4 -119.4             | 0.20 (1)                  | 10.00 | H-D                       | 0 / 416                   | 0.09 (1) |
| B-C    | 0 / 29                    | -119.4 -119.4             | 0.18 (1)                  | 10.00 | H-E                       | -167 / 0                  | 0.09 (1) |
| C-D    | -521 / 0                  | -119.4 -119.4             | 0.14 (1)                  | 6.25  | C-H                       | -167 / 0                  | 0.09 (1) |
| D-E    | -521 / 0                  | -119.4 -119.4             | 0.14 (1)                  | 6.25  | I-C                       | -791 / 0                  | 0.39 (1) |
| E-F    | 0 / 29                    | -119.4 -119.4             | 0.18 (1)                  | 10.00 | E-G                       | -790 / 0                  | 0.39 (1) |
| I-B    | -325 / 0                  | 0.0 0.0                   | 0.04 (1)                  | 7.81  |                           |                           |          |
| G-F    | -143 / 0                  | 0.0 0.0                   | 0.02 (1)                  | 7.81  |                           |                           |          |
| I-H    | 0 / 440                   | -18.2 -18.2               | 0.22 (4)                  | 10.00 |                           |                           |          |
| H-G    | 0 / 440                   | -18.2 -18.2               | 0.22 (4)                  | 10.00 |                           |                           |          |

**DESIGN CRITERIA**

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

**SPACING = 24.0 IN./C**

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

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

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

ALLOWABLE DEFL.(LL) = L/360 (0.41")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.01")  
ALLOWABLE DEFL.(TL) = L/360 (0.41")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.04")

CSI: TC=0.20/0.97 (A-B:1) , BC=0.22/0.97 (H-I:4) ,  
WB=0.39/0.97 (C-I:1) , SSI=0.12/1.00 (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)              |
| MT20  | 650       | 371   | 1747 788 1987 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

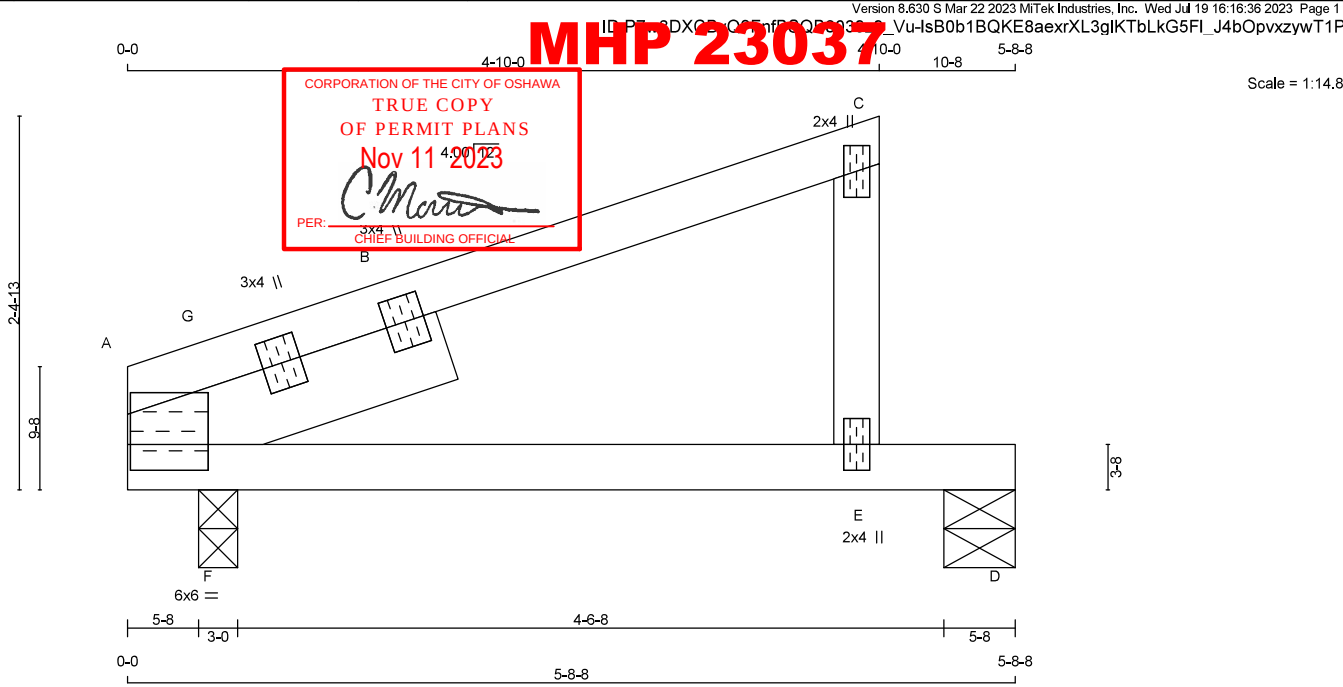
JSI GRIP= 0.89 (I) (INPUT = 0.90 )  
JSI METAL= 0.28 (C) (INPUT = 1.00 )



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







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

|                     |     |     |      |
|---------------------|-----|-----|------|
| REINFORCING MEMBERS |     |     |      |
| HW1                 | 2x6 | DRY | No.2 |

DRY: SEASONED LUMBER.

| PLATES (table is in inches) |          |        |     | W   | LEN  | Y    | X |
|-----------------------------|----------|--------|-----|-----|------|------|---|
| JT                          | TYPE     | PLATES |     |     |      |      |   |
| A                           | TMBMR1-I | MT20   | 6.0 | 6.0 | 2.00 | 0.25 |   |
| A                           | RT+t     | MT20   | 3.0 | 4.0 |      |      |   |
| A                           | RT+t     | MT20   | 3.0 | 4.0 |      |      |   |
| C                           | TMV+p    | MT20   | 2.0 | 4.0 |      |      |   |
| E                           | BMV+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 IN-SX | REQD BRG IN-SX |
|                   | VERT                    | HORZ | DOWN                            | HORZ | UPLIFT |                 |                |
| JT                | 385                     | 0    | 385                             | 0    | 0      | 3-0             | 1-8            |
| A                 | 296                     | 0    | 296                             | 0    | 0      | 5-8             | 1-8            |

| UNFACTORED REACTIONS |          |                               |       |           |       |        |       |
|----------------------|----------|-------------------------------|-------|-----------|-------|--------|-------|
| 1ST LCASE            |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
| JT                   | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| A                    | 269      | 194 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 75 / 0 | 0 / 0 |
| D                    | 209      | 142 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 66 / 0 | 0 / 0 |

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

## 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. UNBRAC LENGTH | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
| FR-TO       |                           | FROM TO                   |               |                    | FR-TO |                           |               |
| A-G         | -286 / 0                  | -119.4                    | -119.4        | 0.07 (1)           | 6.25  | F-G                       | -339 / 0      |
| G-B         | -147 / 0                  | -119.4                    | -119.4        | 0.45 (1)           | 6.25  | F-B                       | 0 / 342       |
| B-C         | -147 / 0                  | -119.4                    | -119.4        | 0.45 (1)           | 6.25  |                           | 0.04 (1)      |
| E-C         | -275 / 0                  | 0,0                       | 0,0           | 0.03 (1)           | 7.81  |                           |               |
| A-F         | 0 / 247                   | -18.2                     | -18.2         | 0.20 (1)           | 10.00 |                           |               |
| F-E         | 0 / 0                     | -18.2                     | -18.2         | 0.34 (1)           | 10.00 |                           |               |
| E-D         | 0 / 0                     | -18.2                     | -18.2         | 0.34 (1)           | 10.00 |                           |               |

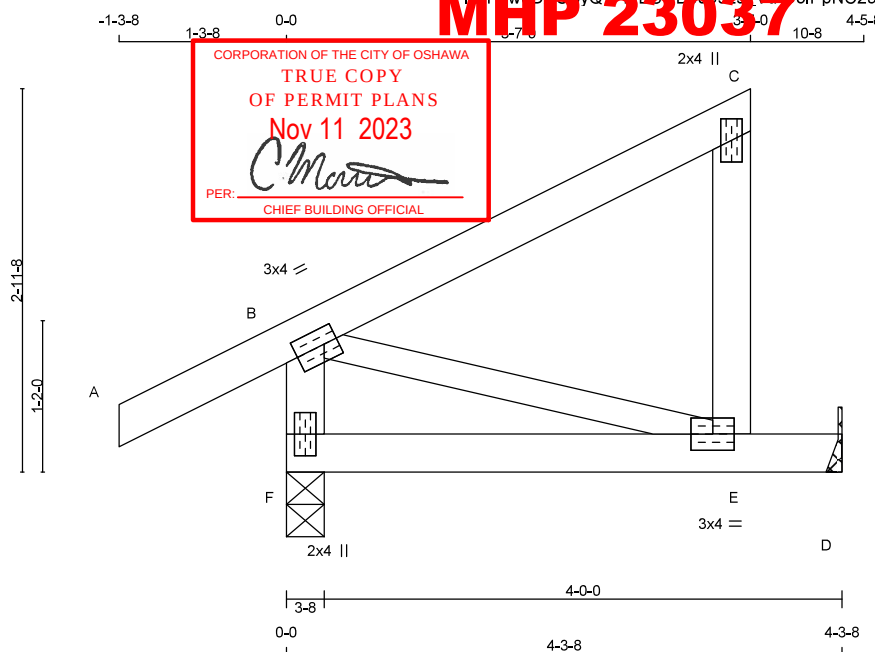


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IN THE DESIGN OF THIS COMPONENT.**



|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T12        | 3        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:17.8

TOTAL WEIGHT = 3 X 17 = 52 lb

**LUMBER**

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

ALL WEBS 2x3 DRY, SEASONED LUMBER.

DESCR.  
SPF  
SPF  
SPF  
SPF**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      |
| F  | 450                     | 0                               | 450       | 0         |
| D  | 218                     | 0                               | 218       | 0         |

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

**UNFACTORED REACTIONS**

| 1ST LCASE |          | MAX./MIN. COMPONENT REACTIONS |       |           |       |        |       |
|-----------|----------|-------------------------------|-------|-----------|-------|--------|-------|
| JT        | COMBINED | SNOW                          | LIVE  | PERM.LIVE | WIND  | DEAD   | SOIL  |
| F         | 312      | 240 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 73 / 0 | 0 / 0 |
| D         | 153      | 104 / 0                       | 0 / 0 | 0 / 0     | 0 / 0 | 49 / 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 = 10.00 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB. FROM TO | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED CSI (LC) |
|--------|---------------------------|---------------------------|---------------------------|---------------|-------|---------------------------|------------------------|
| FR-TO  |                           |                           |                           |               |       |                           |                        |
| A-B    | 0 / 36                    | -119.4                    | -119.4                    | 0.16 (1)      | 10.00 | B-E                       | 0 / 0                  |
| B-C    | 0 / 0                     | -119.4                    | -119.4                    | 0.26 (1)      | 10.00 |                           |                        |
| E-C    | -214 / 0                  | 0.0                       | 0.0                       | 0.03 (1)      | 7.81  |                           |                        |
| F-B    | -376 / 0                  | 0.0                       | 0.0                       | 0.04 (1)      | 7.81  |                           |                        |
| F-E    | 0 / 0                     | -18.2                     | -18.2                     | 0.20 (1)      | 10.00 |                           |                        |
| E-D    | 0 / 0                     | -18.2                     | -18.2                     | 0.20 (1)      | 10.00 |                           |                        |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.02")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.05")CSI: TC=0.26/0.97 (B-C:1), BC=0.20/0.97 (D-E:1),  
WB=0.00/0.97 (B-E:1), SSI=0.17/1.00 (D-E:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

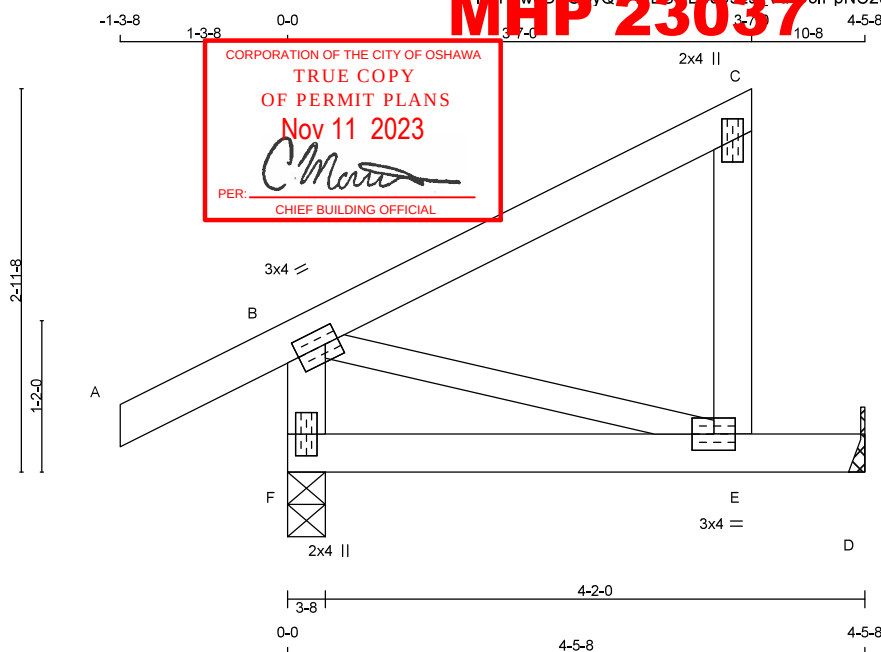
JSI GRIP= 0.33 (B) (INPUT = 0.90)  
JSI METAL= 0.09 (C) (INPUT = 1.00)

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|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T13        | 6        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:17.8

TOTAL WEIGHT = 6 X 17 = 105 lb

**LUMBER**

| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
|-----------------------|--------|------|--------|
| A - C                 | 2x4    | DRY  | No.2   |
| E - C                 | 2x4    | DRY  | No.2   |
| F - B                 | 2x4    | DRY  | No.2   |
| F - D                 | 2x4    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

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

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
|----|------|------|------|------|--------|------------|-------|
| F  | 459  | 0    | 459  | 0    | 0      | 3-8        | 1-8   |
| D  | 213  | 0    | 213  | 0    | 0      | MECHANICAL |       |

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

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX./MIN. COMPONENT REACTIONS          |
|----|-----------|----------------------------------------|
| F  | COMBINED  | SNOW LIVE PERM. LIVE WIND DEAD SOIL    |
| F  | 318       | 244 / 0 0 / 0 0 / 0 0 / 0 75 / 0 0 / 0 |
| D  | 150       | 100 / 0 0 / 0 0 / 0 0 / 0 50 / 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 = 10.00 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PL) | MAX. FACTORED VERT. LOAD (PL) | MAX. FACTORED VERT. LOAD (PL) | MEMB. | WEBS  | MAX. FACTORED FORCE (LBS) | MAX. FACTORED VERT. LOAD (PL) |
|-------|----------|---------------------------|--------------------------|-------------------------------|-------------------------------|-------|-------|---------------------------|-------------------------------|
| FR-TO |          |                           |                          |                               |                               | FR-TO |       |                           |                               |
| A-B   | 0 / 36   | -119.4                    | -119.4                   | 0.16 (1)                      | 10.00                         | B-E   | 0 / 0 | 0.00 (1)                  |                               |
| B-C   | 0 / 0    | -119.4                    | -119.4                   | 0.26 (1)                      | 10.00                         |       |       |                           |                               |
| E-C   | -214 / 0 | 0.0                       | 0.0                      | 0.03 (1)                      | 7.81                          |       |       |                           |                               |
| F-B   | -376 / 0 | 0.0                       | 0.0                      | 0.04 (1)                      | 7.81                          |       |       |                           |                               |
| F-E   | 0 / 0    | -18.2                     | -18.2                    | 0.24 (1)                      | 10.00                         |       |       |                           |                               |
| E-D   | 0 / 0    | -18.2                     | -18.2                    | 0.24 (1)                      | 10.00                         |       |       |                           |                               |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
ALLOWABLE DEFL.(TL) = L/360 (0.19")  
CALCULATED VERT. DEFL.(TL) = L/842 (0.06")CSI: TC=0.26/0.97 (B-C:1), BC=0.24/0.97 (E-F:1),  
WB=0.00/0.97 (B-E:1), SSI=0.17/1.00 (D-E:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

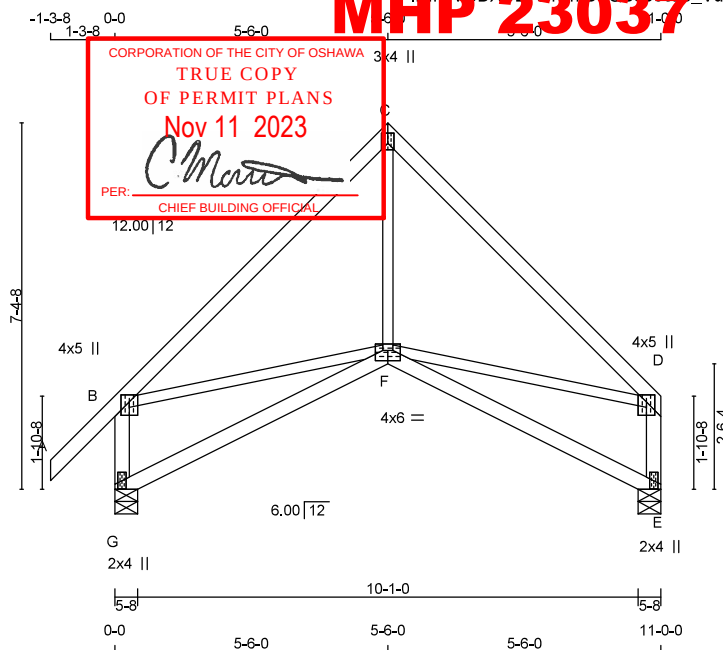
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|            |            |          |     |             |                             |          |
|------------|------------|----------|-----|-------------|-----------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.   | GREENPARK - ZADORRA ESTATES | DRWG NO. |
| NE0723-123 | T14        | 2        | 1   | TRUSS DESC. | - VILLA 7-2                 |          |

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Scale = 1:46.4

TOTAL WEIGHT = 2 X 50 = 101 lb

**LUMBER**

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

**DESCR.**

|     |
|-----|
| SPF |
| SPF |
| SPF |
| SPF |
| SPF |
| SPF |

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  | TMVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| C  | TTW+p   | MT20   | 3.0 | 4.0 | Edge |      |
| D  | TMVW+p  | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| E  | BMV1+p  | MT20   | 2.0 | 4.0 |      |      |
| F  | BBWWW+p | MT20   | 4.0 | 6.0 | 2.50 | 3.00 |
| G  | BMV1+p  | MT20   | 2.0 | 4.0 |      |      |

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

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

| JT   | FACTORED GROSS REACTION | MAXIMUM FACTORED GROSS REACTION | INPUT BRG | REQRD BRG |
|------|-------------------------|---------------------------------|-----------|-----------|
| VERT | HORZ                    | DOWN                            | HORZ      | UPLIFT    |
| G    | 924                     | 0                               | 924       | 0         |
| E    | 757                     | 0                               | 757       | 0         |

**UNFACTORED REACTIONS**

| JT       | 1ST CASE | MAX. MIN. COMPONENT REACTIONS |
|----------|----------|-------------------------------|
| COMBINED | SNOW     | LIVE                          |
| G        | 643      | 480 / 0                       |
| E        | 529      | 383 / 0                       |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
 MAX. UNBRACED BOTTOM CHORD LENGTH = 10.00 FT OR RIGID CEILING DIRECTLY APPLIED.  
 ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE Laterally RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS   | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. LC1 (LC) | MAX. UNBRACED LENGTH | MEMB. | WEBS    | MAX. FACTORED FORCE (LBS) | MAX. CSI (LC) |
|-------|----------|---------------------------|---------------------------|---------------|----------------------|-------|---------|---------------------------|---------------|
| FR-TO |          |                           |                           |               |                      | FR-TO |         |                           |               |
| A-B   | 0 / 59   | -119.4                    | -119.4                    | 0.11 (1)      | 10.00                | F-C   | 0 / 272 | 0.06 (1)                  |               |
| B-C   | -657 / 0 | -119.4                    | -119.4                    | 0.31 (1)      | 6.25                 | B-F   | 0 / 472 | 0.11 (1)                  |               |
| C-D   | -657 / 0 | -119.4                    | -119.4                    | 0.31 (1)      | 6.25                 | F-D   | 0 / 472 | 0.11 (1)                  |               |
| G-B   | -874 / 0 | 0.0                       | 0.0                       | 0.10 (1)      | 7.81                 |       |         |                           |               |
| E-D   | -707 / 0 | 0.0                       | 0.0                       | 0.08 (1)      | 7.81                 |       |         |                           |               |
| G-F   | 0 / 0    | -18.2                     | -18.2                     | 0.16 (4)      | 10.00                |       |         |                           |               |
| F-E   | 0 / 0    | -18.2                     | -18.2                     | 0.16 (4)      | 10.00                |       |         |                           |               |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

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

ALLOWABLE DEFL.(LL) =  $L/360$  (0.37")  
 CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.01")  
 ALLOWABLE DEFL.(TL) =  $L/360$  (0.37")  
 CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.06")

CSI: TC=0.31/0.97 (B-C:1) , BC=0.16/0.97 (F-G:4) ,  
 WB=0.11/0.97 (D-F:1) , SSI=0.18/1.00 (B-C:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (C) (INPUT = 0.90)  
 JSI METAL = 0.36 (G) (INPUT = 1.00)

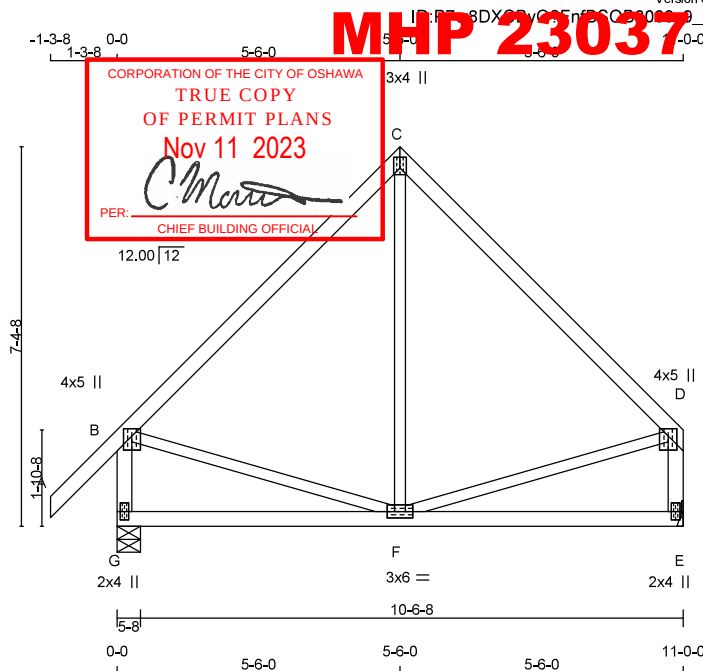


READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.



|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | T15        | 2        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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Scale = 1:44.8

TOTAL WEIGHT = 2 X 50 = 101 lb

**LUMBER**

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

ALL WEBS 2x3 DRY No.2 EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE   | PLATES | W   | LEN | Y    | X    |
|----|--------|--------|-----|-----|------|------|
| B  | TMVW+p | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| C  | TTW+p  | MT20   | 3.0 | 4.0 | Edge |      |
| D  | TMVW+p | MT20   | 4.0 | 5.0 | 1.75 | 2.00 |
| E  | BMV1+p | MT20   | 2.0 | 4.0 |      |      |
| F  | BMVWWH | MT20   | 3.0 | 6.0 |      |      |
| G  | 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**

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX      | IN-SX |
|----|------|------|------|------|--------|------------|-------|
| G  | 924  | 0    | 924  | 0    | 0      | 5-8        | 1-8   |
| E  | 757  | 0    | 757  | 0    | 0      | 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  |
|----|----------|---------|-------|-----------|-------|---------|-------|
| G  | 643      | 480 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 163 / 0 | 0 / 0 |
| E  | 529      | 383 / 0 | 0 / 0 | 0 / 0     | 0 / 0 | 146 / 0 | 0 / 0 |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. VERT. LOAD (LBS) | MAX. HORIZ. LOAD (LBS) | MEMB. | MAX. FACTORED FORCE (LBS) | MAX. HORIZ. LOAD (LBS) |
|-------|---------------------------|---------------------------|-----------------------|------------------------|-------|---------------------------|------------------------|
| FR-TO |                           | FROM                      | TO                    | LENGTH                 | FR-TO |                           |                        |
| A-B   | 0 / 59                    | -119.4                    | -119.4                | 0.11 (1)               | 10.00 | F-C                       | -45 / 90               |
| B-C   | -432 / 0                  | -119.4                    | -119.4                | 0.31 (1)               | 6.25  | B-F                       | 0 / 317                |
| C-D   | -432 / 0                  | -119.4                    | -119.4                | 0.31 (1)               | 6.25  | F-D                       | 0 / 317                |
| G-B   | -885 / 0                  | 0.0                       | 0.0                   | 0.10 (1)               | 7.81  |                           |                        |
| E-D   | -719 / 0                  | 0.0                       | 0.0                   | 0.08 (1)               | 7.81  |                           |                        |
| G-F   | 0 / 0                     | -18.2                     | -18.2                 | 0.16 (4)               | 10.00 |                           |                        |
| F-E   | 0 / 0                     | -18.2                     | -18.2                 | 0.16 (4)               | 10.00 |                           |                        |

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

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

**SPACING = 24.0 IN./C**

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

THIS DESIGN COMPLIES WITH:

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

(55 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD)  
EQUALS 34.8 P.S.F. SPECIFIED ROOF LIVE LOADALLOWABLE DEFL.(LL) = L/360 (0.37")  
CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
ALLOWABLE DEFL.(TL) = L/360 (0.37")  
CALCULATED VERT. DEFL.(TL) = L/999 (0.02")CSI: TC=0.31/0.97 (C-D:1), BC=0.16/0.97 (E-F:4),  
WB=0.07/0.97 (B-F:1), SSI=0.18/1.00 (C-D:1)DOL LUMBER=1.00 NAIL=1.00 LS BEND=1.10 COMP=1.10  
SHEAR=1.10 TENS= 1.10

COMPANION LIVE LOAD FACTOR = 1.00

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

**NAIL VALUES**

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

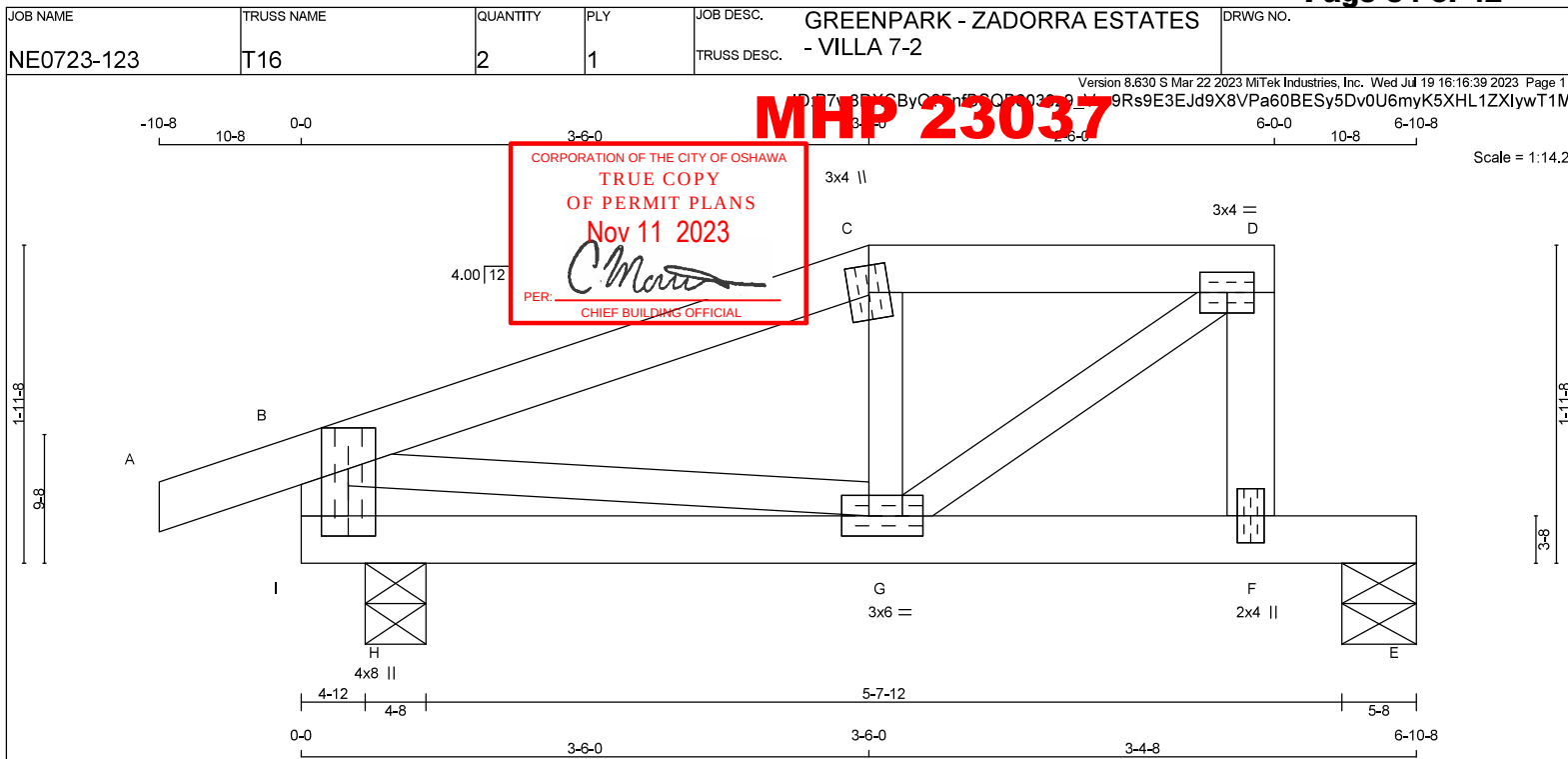
PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.59 (D) (INPUT = 0.90)  
JSI METAL= 0.26 (B) (INPUT = 1.00)

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



**LUMBER**

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

ALL WEBS 2x3 DRY No.2  
EXCEPT

DRY: SEASONED LUMBER.

**PLATES (table is in inches)**

| JT | TYPE    | PLATES | W   | LEN | Y    | X    |
|----|---------|--------|-----|-----|------|------|
| B  |         |        |     |     |      |      |
| C  | TTW+m   | MT20   | 3.0 | 4.0 |      |      |
| D  | TWVW4   | MT20   | 3.0 | 4.0 |      |      |
| F  | BMV+p   | MT20   | 2.0 | 4.0 |      |      |
| G  | BMWWH   | MT20   | 3.0 | 6.0 | 1.50 | 2.00 |
| I  |         |        |     |     |      |      |
| I  | TMBVW+p | MT20   | 4.0 | 8.0 | 5.00 | 2.00 |

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

|    | FACTORED       | MAXIMUM FACTORED | INPUT | REQD |
|----|----------------|------------------|-------|------|
|    | GROSS REACTION | GROSS REACTION   | BRG   | BRG  |
| JT | VERT           | HORZ             | DOWN  | HORZ |
| E  | 307            | 0                | 307   | 0    |
| H  | 645            | 0                | 645   | 0    |

**UNFACTORED REACTIONS**

| JT | 1ST CASE | SNOW    | LIVE  | PERM. LIVE | WIND  | DEAD    | SOIL  |
|----|----------|---------|-------|------------|-------|---------|-------|
| E  | 216      | 147 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 70 / 0  | 0 / 0 |
| H  | 449      | 335 / 0 | 0 / 0 | 0 / 0      | 0 / 0 | 114 / 0 | 0 / 0 |

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

**BRACING**

TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 6.25 FT.  
MAX. UNBRACED BOTTOM CHORD LENGTH = 6.25 FT. OR RIGID CEILING DIRECTLY APPLIED.  
ALL PITCH BREAKS AND PERIMETER CORNER JOINTS MUST BE LATERALLY RESTRAINED.

**LOADING**

TOTAL LOAD CASES: (4)

| CHORDS |                           |                           |                           | WEBS     |                           |                           |          |          |
|--------|---------------------------|---------------------------|---------------------------|----------|---------------------------|---------------------------|----------|----------|
| MEMB.  | MAX. FACTORED FORCE (LBS) | FACTORED VERT. LOAD (PLF) | MAX. UNBRACED LENGTH (LC) | MEMB.    | MAX. FACTORED FORCE (LBS) | MAX. UNBRACED LENGTH (LC) |          |          |
| FR-TO  |                           | FROM                      | TO                        | FR-TO    |                           | FROM                      | TO       |          |
| A-B    | 0 / 17                    | -119.4                    | -119.4                    | 0.07 (1) | 10.00                     | G-C                       | -203 / 0 | 0.03 (1) |
| B-C    | -397 / 0                  | -119.4                    | -119.4                    | 0.24 (1) | 6.25                      | G-D                       | 0 / 227  | 0.05 (1) |
| C-D    | -344 / 0                  | -119.4                    | -119.4                    | 0.11 (1) | 6.25                      | B-G                       | 0 / 560  | 0.13 (1) |
| F-D    | -286 / 0                  | 0.0                       | 0.0                       | 0.28 (1) | 7.81                      |                           |          |          |
| I-B    | -546 / 0                  | 0.0                       | 0.0                       | 0.24 (1) | 7.81                      |                           |          |          |
|        |                           |                           |                           |          |                           |                           |          |          |
| I-H    | -188 / 0                  | -18.2                     | -18.2                     | 0.23 (1) | 6.25                      |                           |          |          |
| H-G    | -188 / 0                  | -18.2                     | -18.2                     | 0.21 (1) | 6.25                      |                           |          |          |
| G-F    | 0 / 159                   | -18.2                     | -18.2                     | 0.13 (1) | 10.00                     |                           |          |          |
| F-E    | 0 / 0                     | -18.2                     | -18.2                     | 0.36 (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**

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

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

THIS DESIGN COMPLIES WITH:

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

**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) =  $L/360$  (0.21")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.02")  
ALLOWABLE DEFL.(TL) =  $L/360$  (0.21")  
CALCULATED VERT. DEFL.(TL) =  $L/999$  (0.04")

**CANTILEVER DEFLECTION:**

ALLOWABLE DEFL.(LL) =  $L/120$  (0.19")  
CALCULATED VERT. DEFL.(LL) =  $L/999$  (0.01")  
ALLOWABLE DEFL.(TL) =  $L/120$  (0.19")  
CALCULATED VERT. DEFL.(TL) =  $L/726$  (0.01")

CSI: TC=0.28/0.97 (D-F:1), BC=0.36/0.97 (E-F:1),  
WB=0.13/0.97 (B-G:1), SSI=0.43/1.00 (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

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

**NAIL VALUES**

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.83 (G) (INPUT = 0.90)  
JSI METAL = 0.23 (I) (INPUT = 1.00)



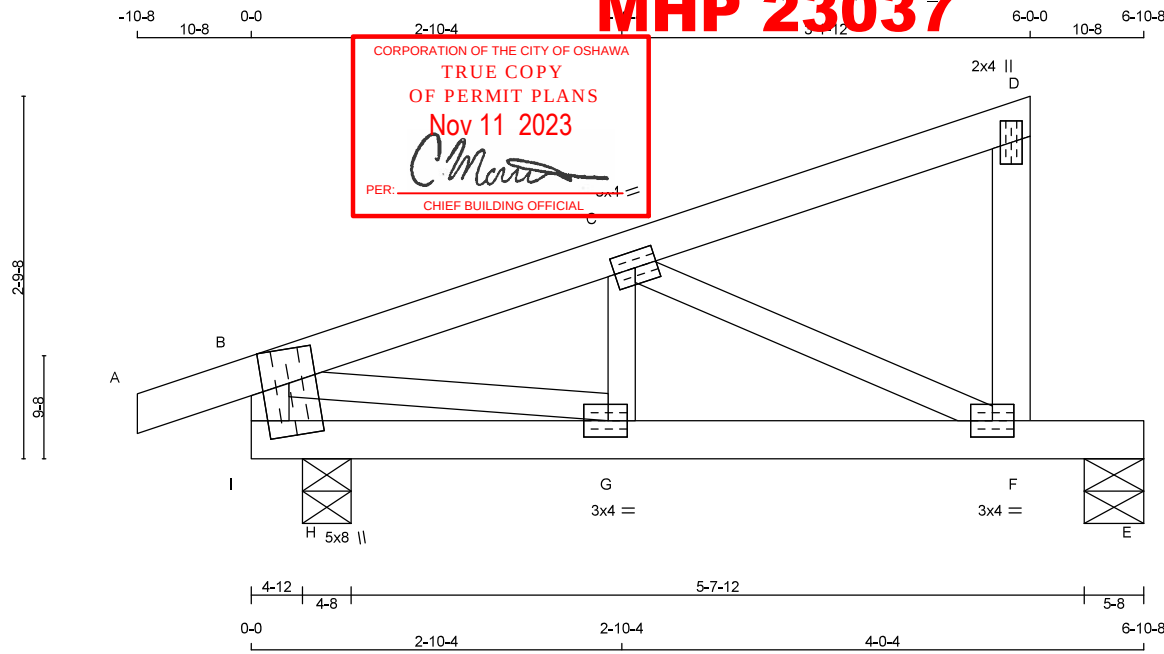
READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: TRUSSES. THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.





|            |            |          |     |                                            |          |
|------------|------------|----------|-----|--------------------------------------------|----------|
| JOB NAME   | TRUSS NAME | QUANTITY | PLY | JOB DESC.                                  | DRWG NO. |
| NE0723-123 | T17        | 2        | 1   | GREENPARK - ZADORRA ESTATES<br>- VILLA 7-2 |          |

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**LUMBER**

| N. L. G. A. RULES     | CHORDS | SIZE | LUMBER |
|-----------------------|--------|------|--------|
| A - D                 | 2x4    | DRY  | No.2   |
| F - D                 | 2x4    | DRY  | No.2   |
| I - B                 | 2x4    | DRY  | No.2   |
| I - E                 | 2x4    | DRY  | No.2   |
| ALL WEBS              | 2x3    | DRY  | No.2   |
| DRY: SEASONED LUMBER. |        |      |        |

**PLATES (table is in inches)**

| JT | TYPE     | PLATES | W   | LEN | Y    | X    |
|----|----------|--------|-----|-----|------|------|
| B  |          |        |     |     |      |      |
| C  | TMBWW-1  | MT20   | 3.0 | 4.0 |      |      |
| D  | TMBV+p   | MT20   | 2.0 | 4.0 |      |      |
| F  | TMBWW-1  | MT20   | 3.0 | 4.0 |      |      |
| G  | TMBWW-1  | MT20   | 3.0 | 4.0 | 1.50 | 1.75 |
| I  | TMBWW*+m | MT20   | 5.0 | 8.0 | Edge |      |

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

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

| JT | VERT | HORZ | DOWN | HORZ | UPLIFT | IN-SX | IN-SX |
|----|------|------|------|------|--------|-------|-------|
| E  | 304  | 0    | 304  | 0    | 0      | 5-8   | 1-8   |
| H  | 648  | 0    | 648  | 0    | 0      | 4-8   | 1-8   |

**UNFACTORED REACTIONS**

| JT | 1ST LCASE | MAX. MIN. COMPONENT REACTIONS |
|----|-----------|-------------------------------|
| E  | 214       | 146 / 0                       |
| H  | 451       | 336 / 0                       |

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

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

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

**LOADING**

TOTAL LOAD CASES: (4)

| MEMB. | CHORDS | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1    | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 | MAX. FACTORED FORCE (LBS) | VERT. LOAD (PLF) | LC1 |
|-------|--------|---------------------------|------------------|--------|---------------------------|------------------|-----|---------------------------|------------------|-----|
| FR-TO |        |                           |                  |        |                           |                  |     |                           |                  |     |
| A-B   |        | 0 / 17                    | -119.4           | -119.4 | 0.07 (1)                  | 10.00            |     |                           |                  |     |
| B-C   |        | -386 / 0                  | -119.4           | -119.4 | 0.13 (1)                  | 6.25             |     |                           |                  |     |
| C-D   |        | -121 / 0                  | -119.4           | -119.4 | 0.11 (1)                  | 6.25             |     |                           |                  |     |
| F-D   |        | -163 / 0                  | 0.0              | 0.0    | 0.20 (1)                  | 7.81             |     |                           |                  |     |
| I-B   |        | -535 / 0                  | 0.0              | 0.0    | 0.17 (1)                  | 7.81             |     |                           |                  |     |
| I-H   |        | -293 / 0                  | -18.2            | -18.2  | 0.17 (1)                  | 6.25             |     |                           |                  |     |
| H-G   |        | -293 / 0                  | -18.2            | -18.2  | 0.17 (1)                  | 6.25             |     |                           |                  |     |
| G-F   |        | 0 / 359                   | -18.2            | -18.2  | 0.16 (1)                  | 10.00            |     |                           |                  |     |
| F-E   |        | 0 / 0                     | -18.2            | -18.2  | 0.35 (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

**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 (0.21")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.03")  
 ALLOWABLE DEFL.(TL) = L/360 (0.21")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.05")

**CANTILEVER DEFLECTION:**

ALLOWABLE DEFL.(LL) = L/120 (0.18")  
 CALCULATED VERT. DEFL.(LL) = L/999 (0.00")  
 ALLOWABLE DEFL.(TL) = L/120 (0.18")  
 CALCULATED VERT. DEFL.(TL) = L/999 (0.01")

CSI: TC=0.20/0.97 (D-F:1), BC=0.35/0.97 (E-F:1), WB=0.15/0.97 (B-G:1), SSI=0.43/1.00 (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 LEFT HEEL ONLY

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

**NAIL VALUES**

| PLATE | GRIP(DRY) | SHEAR | SECTION |
|-------|-----------|-------|---------|
| (PSI) | (PLI)     | (PLI) | (PLI)   |
| MAX   | MIN       | MAX   | MIN     |
| MT20  | 650       | 371   | 1747    |

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.84 (G) (INPUT = 0.90)  
JSI METAL= 0.22 (G) (INPUT = 1.00)

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

