

Hanger Name	Symbol	QTY
(1) H2.5A	A	24
(2) H2.5A		2
HGUS26		7

PIGGYBACK TRUSSES TO BE SUPPORTED ON 2X4 SPF #1/2 MEMBERS @ 24"O/C PLACED PERPENDICULAR TO THE PIGGYBACK DIRECTION.

PLACE 2X4 MEMBERS BETWEEN THE BOTTOM CHORD OF THE PIGGYBACK TRUSS AND THE TOP CHORD OF THE SUPPORTING TRUSS.

Additional 5 psf dead load has been added to Top Chord loading to account for weight of solar panels. Solar panels must be installed as per Detail in Engineering Package



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

Roof components shown on this layout with clear span less tha 40ft are designed for loads as shown conforming to Part 9 building occupancy.

Trusses or girder trusses exceeding 40 ft clear span or girders carrying roof trusses exceeding 40 ft clear span are designed

for snow loads calculated according to Division B Part 4 Section 4.1.6.2 of OBC (O.Reg. 332/12):

S=Is[Ss(Cb*Cw*Cs*Ca) + Sr]
Where Is=1.0, Ss=2.3kPa, Sr=0.4, Cb=0.8, Cw=1.0, Ca=1.0
and Cs calculated according to Section 4.1.6.2 Subsection 5, 6
and 7



CONVENTIONAL FRAMING BY OTHERS

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

Customer	GREENPARK HOMES
Job #	T20-00760
Address	TRINAR HALL EAST GWILLIMBURY,ON
Model	GLENWAY 2A ELEV 1
Sales Rep	RALPH MIRIGELLO
Designer	DM
Date	12/16/2020
Path	C:\DATA\JOBS\GREENPARK\TRINAR HALL\MODELS\GLENWAY 2A\ELEV 1\T-GLENWAY2A-1\

DESIGN INFORMATION

Code	NBCC 2015					
Bldg	Residential - HSB (NBCC Part 9)					
TC LL	34.8 lb/ft ²					
TC DL	8.0 lb/ft ²					
BC LL	10.5 lb/ft²					
BC DL	7.3 lb/ft ²					
Deflection	LL=L/360 TL=L/360					
Spacing	24" O/C unless otherwise noted					
Complies With	OBC 2012 (2019 Amendment) CSA 086-14 and TPIC 2014					

IMPORTANT INFORMATION

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

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

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

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

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

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

KOTT Inc. 14 Anderson Blvd. Uxbridge, ON 905.642.4400





NE1220-106 GREENPARK - TRINAR HALL - GLENWAY 2A ELE 1

ENGINEERING NOTE PAGE (ENP-1)

PLEASE READ PRIOR TO INSTALLATION

These plans have been reviewed for use with the
corrections as noted. No other changes may be
made without written approval of the Building
Standards Branch. All work must comply with
Zoning By-Law 2018-043, as amended, and the
Ontario Building Code, as amended. These
approved documents must be kept on site at all
times. The building permit must be clearly
posted on site at all times.

Reviewer	BCIN	Date
H. Authier	43236	2021-02-08

RESPONSIBILITIES

THIS DESIGN IS FOR AN INDIVIDUAL BUILDING COMPONENT AND HAS BEEN BASED ON INFORMATION PROVIDED BY KOTT DESIGN. THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF FAULTY OR INCORRECT INFORMATION, SPECIFICATION AND/OR DESIGNS FURNISHED TO THE ENGINEER. THE UNDERSIGNED ENGINEER IS ONLY RESPONSIBLE FOR THE STRUCTURAL INTEGRITY OF THIS BUILDING COMPONENT FOR THE CONDITIONS AND LOADS SHOWN ON THIS DRAWING. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE VERIFICATION OF THE DIMENSIONS AND THE DESIGN LOADS USED ARE THE RESPONSIBILITY OF THE BUILDING DESIGNER.

TRUSSES ARE DESIGNED IN CONFORMANCE WITH THE RELEVANT SECTIONS OF THE NATIONAL BUILDING CODE OF CANADA OR THE CANADIAN CODE FOR FARM BUILDINGS, WHICHEVER APPLIES TO THE BUILDING TYPE INDICATED ON THE DRAWING

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

USE AND OCCUPANCY

The building is of the type indicated on the drawing

LOADING

- The truss loading intensity and distribution as well as load transfer mechanism is that indicated on the drawing
- No buildings, trees, parapets or other projections higher than the roof for which the trusses are used are located within a distance less than ten (10) times the difference in height, or five metres (16 ft) whichever is greater, unless the drawing indicates that the snow drifting has been taken into account

HANDLING, INSTALLATION AND BRACING

- The trusses must be handled and installed by a qualified professional as per the supplied document titled *Information for Truss Installers* and the BCSI-B1 and BCSI-B3 Summary Sheets
- The compression chords are laterally braced by continuous rigid diaphragm sheathing or as specified on the drawing
- Temporary and permanent bracing must be installed as indicated on the truss drawing and according to the BCSI-B1 and BCSI-B3 Summary Sheets. Bracing for the lateral stability of the truss is to be provided by the building designer
- It is recommended that a Professional Engineer's advice be obtained for the bracing of trusses spanning more than 12.37m (40'-7")

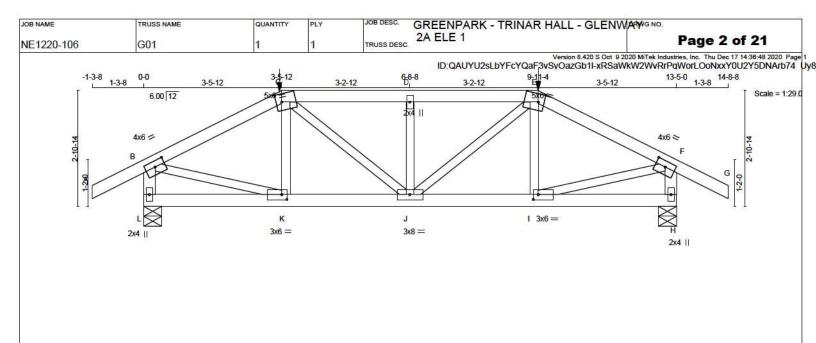
SUPPORTS

- The trusses are to be supported at the bearing points indicated and anchored to the supports where considered necessary by the designer of the overall structure
- Bearing sizes shown are the minimum required to prevent crushing of the truss members and do not necessarily take into account stability of the overall building structure
- Elevation of bearings must be carefully checked and shimmed to alignment for solid bearings
- Adequate wood truss bearing is the responsibility of the building designer.

DIMENSIONS

Geometry of the truss and dimensions indicated on the drawing are identical to those of the installed truss.

KOTT



12-6-0

6-8-8

3-2-12

DRY DRY DRY	LUMBER No.2 No.2	DESCR SPF
DRY	No.2	SPF
DRY	No.2	SPF
DRY	No.2	SPF
DRY		
	NO.2	
	No.2	SPF
DRY	No.2	SPF
		SPF
DRY	No.2	SPF
DRY	No.2	SPF
LUMBER.		
	DRY	DRY No.2

5-8 0-0

JT	TYPE	PLATES	w	LEN	Y	X
В	TMVW-t	MT20	4.0	6.0	1.75	3.00
C	TTWW-m	MT20	5.0	6.0	2.50	1.75
D	TMW+w	MT20	2.0	4.0		
E	TTWW-m	MT20	5.0	6.0	2.50	1.75
F	TMVW-t	MT20	4.0	6.0	1.75	3.00
H	BMV1+p	MT20	2.0	4.0		
1	BMWW-t	MT20	3.0	6.0	1.50	1.50
J	BMWWW-t	MT20	3.0	8.0		
K	BMWW-t	MT20	3.0	6.0	1.50	1.50
L	BMV1+p	MT20	2.0	4.0		

	ARINGS	SUPPORT	S AND L	OADING	S SPECI	FIED BY	FABRICATOR TO BE VERIFIED BY BUILDING DESIGNE	R
DLI	FACTO		MAXIMU			INPUT	REQRD	•
	GROSS F	REACTION	GROSS	REACTI	ON	BRG	BRG	:
JT	VERT	HORZ	DOWN	HORZ	UPLIFT	IN-SX	IN-SX	-
L	1813	0	1813	0	0	5-8	2-6	
H	1813	0	1813	0	0	5-8	2-8	1

3-2-12

UN	FACTORED R	EACTIONS				
ν.	1ST LCASE	MAX	MIN. COMP	ONENT REACTI	ONS	
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD
L	1334	793 / 0	211/0	0/0	0/0	329/0
H	1334	793 / 0	211/0	0/0	0/0	329/0

BRACING
TOP CHORD TO BE SHEATHED OR MAX. PURLIN SPACING = 4.01 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)

3-5-12

CH	ORD	S						WE	BS		
MA	X. FAC	TORED	FACTO	DRED MAX. FACTORED							
MEMB.	F	ORCE	VERT. L	OAD LO	21 MA	X	MAX.	MEMB	. FORCE	MAX	(
	(LBS)	(P	LF)	CSI (LC)	UNBRA	C	(LBS)	CSI	(LC)
FR-TO	() 8	(0)	FROM	TO		(5)	LENGT	HFR-TO	M 538		8 8
A-B	0	/ 38	-124.4	-124.4	0.18	(1)	10.00	K-C	-201 / 112	0.04	(1)
B-C	-2021	/0	-124.4	-124.4	0.36	(1)	4.34	C-J	0/692	0.17	(1)
C-D	-2336	0	-186.6	-186.6	0.39	(1)	4.01	J-D	-718 / 0	0.13	(1)
D-E	-2336	10	-186.6	-186.6	0.39	(1)	4.01	J-E	0/692	0.17	(1)
									-201 / 112		(1)
F-G	0	/ 38	-124.4	-124.4	0.18	(1)	10.00	B-K	0 / 1856	0.46	(1)
L-B	-1724	10	0.0	0.0	0.19	(1)	6.29	I-F	0 / 1856	0.46	(1)
			0.0								
L-K	0	0	-58.9	-58.9	0.14	(3)	10.00				
K-J	0	1798	-58.9	-58.9	0.41	(1)	10.00				
J-1	0	1798	-58.9	-58.9	0.41	(1)	10.00				
I-H	0	/ 0	-58.9	-58.9	0.14	(3)	10.00				
FACTO	ORED C	ONCEN	TRATED	LOADS	(LBS	3)					
JT	LOC.	LC1	MAX-	MAX	(+	F	ACE	DIR.	TYPE	HEEL	CONN
C	3-5-12	-213	-213	1.100.00	322	FR	ONT V	ERT	TOTAL	-	C1
F	9-11-4	-213	-213			FR	ONT V	FRT	TOTAL		C1

CONNECTION REQUIREMENTS

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



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

*	
East Gwil	limburv
Building Standards Bran	

9-11-4

SOIL 0/0 0/0

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Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

TOTAL WEIGHT = 54 lb
[M]

SPEC	IFIED	LOA	DS		
TOP	CH.	LL	=	34.8	PSF
				8.0	
BOT	CH.	LL	=	10.5	PSF
		DL			PSF

3-5-12

DESIGN

13-5-0

TOTAL LOAD = 60.6 PSF SPACING = 24.0 IN. C/C

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

GIRDER TYPE: CPrimeHip SIDE SETBACK = 3-5-12 END SETBACK = 4-5-8 END WALL WIDTH = 5-8 CORNER FRAMING TYPE: CONVENTIONAL END JACK TYPE: CONVENTIONAL APPLIED TO FRONT SIDE - ADDT'L LOADS BASED ON 55 % OF GSL.

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

THIS DESIGN COMPLIES WITH:
- PART 9 OF BCBC 2018 , ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)

(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 (0.45*)
CALCULATED VERT. DEFL.(LL)= L/999 (0.05*)
ALLOWABLE DEFL.(TL)= L/360 (0.45*)
CALCULATED VERT. DEFL.(TL)= L/999 (0.08*)

CSI: TC=0.39/1.00 (C-D:1) , BC=0.41/1.00 (J-K:1) , WB=0.46/1.00 (B-K:1) , SSI=0.31/1.00 (C-D:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

TRUSS PLATE MANUFACTURER IS NOT RESPONSIBLE FOR QUALITY CONTROL IN THE TRUSS

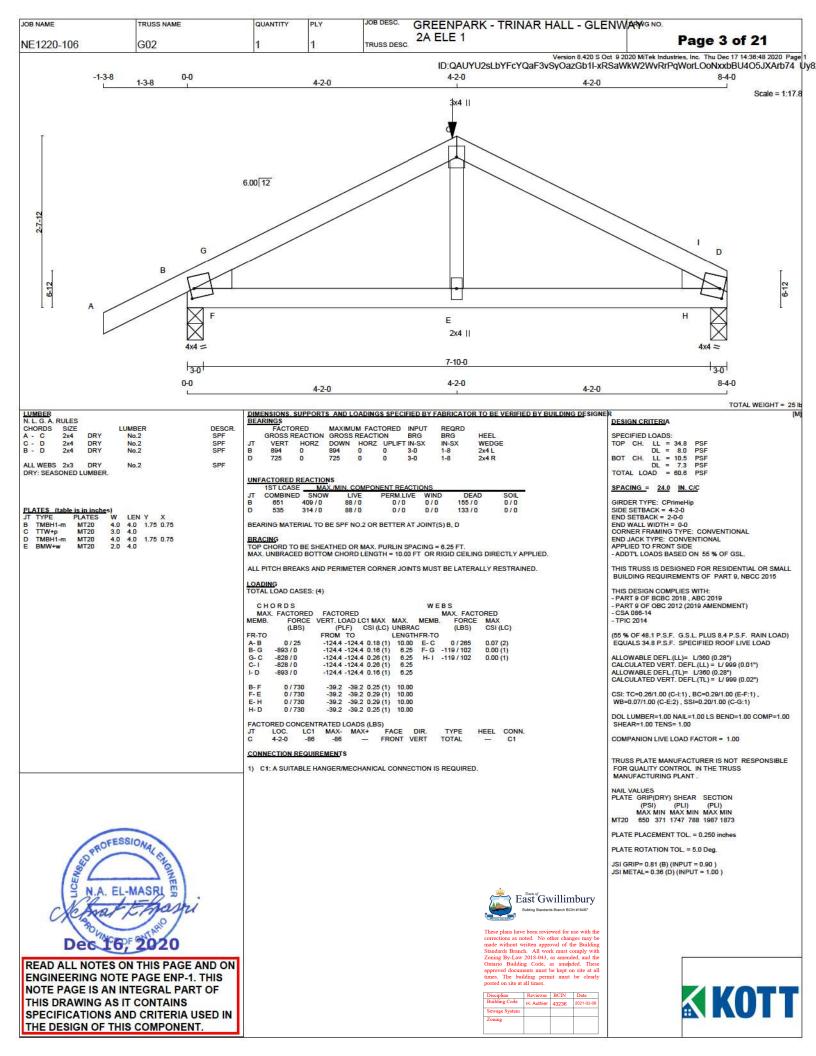
| NAIL VALUES | PLATE | GRIP(DRY) | SHEAR | SECTION | (PS) | (PLI) | (PLI) | MAX MIN | MAX MIN | MAX MIN | MT20 | 650 | 371 | 1747 | 788 | 1987 | 1873 |

PLATE PLACEMENT TOL. = 0.250 inches

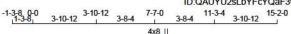
PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90) JSI METAL= 0.52 (B) (INPUT = 1.00)





Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 14:36:49 2020 Page 1
ID:QAUYU2sLbYFcYQaF3vSyOazGb1I-Pd0yj3XqHCZi0 5 O3w1w8UiAuNuqZTJ4FteWxy8



D 14.00 12 4x5 // 4x5 \ 6x8 N 6x8 // H 6x16 || 5x10 || 6x16 || 5x10 II 8x12 || 3-10-12 7-7-0 11-3-4 3-10-12 3-8-4 3-10-12

TOTAL WEIGHT = 4 X 126 = 503 I

Scale = 1:71.5

LUMBER				
N. L. G. A. I CHORDS	SIZE	2207	LUMBER	DESCR
A - D	2x4	DRY	No.2	SPF
D - F	2x4	DRY	No.2	SPF
K - B	2x6	DRY	No.2	SPF
G-F	2x6	DRY	No.2	SPF
K - G	2x10	DRY	No.2	SPF
ALL WEBS EXCEPT	2x3	DRY	No.2	SPF
1 - D	2x4	DRY	No.2	SPF

DESIGN CONSISTS OF 4 TRUSSES BUILT SEPARATELY THEN FASTENED TOGETHER AS FOLLOWS:

CHORDS#ROWS		SURFACE	LOAD(PLF)
		SPACING (IN)	
TOP C	HORDS: (0.	122"X3") SPIRAL NAII	LS
A-D	1	12	TOP
D-F	1	12	TOP
K-B	2	12	TOP
G-F	2	12	TOP
BOTTO	M CHORDS	: (0.122"X3") SPIRAL	NAILS
K-G	5	4	SIDE(1719.2)
WEBS	: (0.122"X3"	SPIRAL NAILS	
2x3	1	6	
2x4	1	6	

STAGGER NAILS BY HALF THE SURFACE SPACING IN ADJACENT PLIES.

IN ADDITION, PRE-DRILL ONE 0.56° DIAM. HOLE IN EACH CHORD PANEL AND INSTALL 0.50° DIAM. ASTM A307 BOLTS WITH WASHERS, BOTH SIDES. FOR OTHER BOLT TYPES SEE CSAO86 3.3.2.

TOP - COMPONENTS ARE LOADED FROM THE TOP AND MUST BE PLACED ON TOP EDGE OF ALL PLIES FOR THE LOAD TO BE TRANSFERRED TO EACH PLY.

SIDE - PLF SHOWN IS THE EQUIVALENT UDL APPLIED TO ONE SIDE THAT THE CORRESPONDING NAILING PATTERN SHALL BE CAPABLE OF TRANSFERING. REMAINING PLF MUST BE APPLIED ON THE OPPOSITE SIDE OR ON THE TOP.



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

DIM	IENSIONS, SUPPORT	S AND LOADINGS SPEC	IFIED BY	Y FABRICATOR TO BE VERIFIED BY BUILDING	DESI
BE/	ARINGS				
	FACTORED	MAXIMUM FACTORED	INPUT	REQRD	
	GROSS REACTION	GROSS REACTION	BRG	BRG	

	GROSS REACTION		GROSS REACTION			BRG	BRG	
JT	VERT	HORZ					IN-SX	
K	19168	0	19168	327	-877	5-8	5-8	
G	18936	0	18936	0	-881	5-8	5-8	

PROVIDE ANCHORAGE AT BEARING JOINT K FOR 877 LBS FACTORED UPLIFT PROVIDE ANCHORAGE AT BEARING JOINT G FOR 881 LBS FACTORED UPLIFT

PROVIDE FOR 327 LBS FACTORED HORIZONTAL REACTION AT JOINE

UN	FACTORED R	EACTIONS					
Ų.,	1ST LCASE	MAX	MIN. COMP	ONENT REACT	IONS		
JT	COMBINED	SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
K	13830	9243 / 0	1722 / 0	0/0	1907 / -1867	2865 / 0	0/0
G	13871	9112/0	1722 / 0	0/0	1921 / -1860	2837 / 0	0/0
но	RIZONTAL RE	ACTIONS					
K		0/0	0/0	0/0	233 / -226	0/0	0 / 0

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

BRACING

MAX. UNBRACED TOP CHORD LENGTH = 3.50 FT.

MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x4 DRY SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF D-I. DBS = 20-0-0 . CBF = 100 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) TO EACH PLY USING (0.122/3x) SPIRAL MAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x6, 3 FOR 2x4, 4 FOR 2x4, 5 FOR

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: (18)

CI	HORDS					WE	BS	
MA	AX. FACTORED	FACTO	RED				MAX. FACTO	DRED
MEME	FORCE	VERT. LO	DAD LC			MEME	. FORCE	MAX
	(LBS)	(PL	_F) (CSI (LC)	UNBRA	C	(LBS)	CSI (LC)
FR-TO)	FROM	TO		LENGTH	IFR-TO)	
A-B	0 / 103	-165.5	-165.5	0.10(2)	10.00	I- D	-923 / 14778	0.59(1)
B-C	-12084 / 628	-165.5	-165.5	0.50(2)	3.50	I-E	-2979 / 371	0.92(3)
C-D	-10110 / 663	-165.5	-165.5	0.34(2)	3.86	H-E	-176 / 3578	0.20(2)
D-E	-10110 / 667	-165.5	-165.5	0.34(3)	3.86	C-1	-2977 / 386	0.92(2)
E-F	-12085 / 625	-165.5	-165.5	0.50(3)	3.50	J-C	-184 / 3578	0.20(3)
K-B	-14772 / 705	0.0	0.0	0.40 (1)	5.31	B-J	-415 / 9368	0.53(1)
G-F	-14541 / 709	0.0	0.0	0.39 (1)	5.35	H-F	-404 / 9369	0.53 (1)
K-J	-297 / 302	-2331.6-	2331.6	0.35 (2)	8.25			
J-1	-469 / 7884	-2331.6	2331.6	0.40(2)	6.25			
I- H	-353 / 7885	-2331.6-	2331.6	0.40 (3)	6.25			
H- G	-14 / 29	-2331.6	2331.6	0.35 (3)	6.25			

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSUP-REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFI WIND FORCE RESISTING SYSTEM, INTERNAL WIND PRESSURE IS BASEC BUILDING MAY BE LOCATED ON (ROUGH TERRAIN) AT MINIMUM (1.000) & TERRAIN., AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-1 UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PS



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building permit must be clearly posted on its et all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

DESIGN CRITERIA

SPEC	CH.				-
TOP	CH.				
		DL	=	10.0	PS
BOT	CH.	LL	=	10.5	PS
		DL	=	7.3	PS
TOTA	1 10	AD	-	740	DC

SPACING = 24.0 IN. C/C

GIRDER TYPE: CStdGirder GIRDER TYPE: CStdGirder
START DISTANCE = 0-0
START SPAN CARRIED = 41-8-8
END DISTANCE = 15-2-0
END SPAN CARRIED = 41-8-8
END WALL WIDTH = 5-8
APPLIED TO FRONT SIDE OF BOTTOM CHORD.
-ADDT'L LOADS BASED ON 100 % OF GSL.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4,

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018 , ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT) - CSA 086-14 - TPIC 2014

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED

(80 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F. SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (0.51")
CALCULATED VERT. DEFL.(LL)= L/999 (0.06") ALLOWABLE DEFL.(TL)= L/180 (1.01")
CALCULATED VERT. DEFL.(TL) = L/999 (0.08")

CSI: TC=0.50/1.00 (E-F:3) , BC=0.40/1.00 (I-J:2) , WB=0.92/1.00 (E-I:3) , SSI=0.59/1.00 (I-J:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 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 inch

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (J) (INPUT = 0.90) JSI METAL= 0.71 (H) (INPUT = 1.00)



JOB NAME NE1220-106	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - TRINAR HALL - GLEN 2A ELE 1	IWANG NO. Page 5 of 21
NL 1220-100	303		4	TRUSS DESC.	Version 8.420 S Oct	9 2020 MiTek Industries, Inc. Thu Dec 17 14:36:50 2020 Page 2 tqaKxPYI2WhZe8qAymRGSM1twli7Z0jSJvcB3Nv
					•	

PLATES (table)
JT TYPE S
B TMVW-t
C TMWW-t
D TTW+p
E TMWW-t
F TMVW-t
G BMV1+t
H BMWW+t
J BMWW+t
K BMV1+t

hes)

W LEN Y X

6.0 8.0 2.25 2.50

4.0 8.0 3.00 Edge
4.0 5.0 2.00 1.75

6.0 8.0 2.25 2.50

5.0 10.0 7.00 1.75

8.0 12.0 7.00 4.00

5.0 16.0 7.00 7.05

6.0 16.0 7.00 7.75

6.0 16.0 7.00 7.75

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

East Gwillimbury
Building Standards Branch BCIN #16487

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Bullding Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Bullding Code, as ampided. These approved documents must be kept on site at all times. The bullding permit must be clearly posted on site at all times.

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



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

JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL - GLENWARY ONO. 2A ELE 1 Page 6 of 21 NE1220-106 **GE01** TRUSS DESC

Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 14:36:50 2020 Page

ID:QAUYU2sLbYFcYQaF3vSyOazGb1I-tqaKxPYI2WhZe8qAymRGSM1yvIpzZBISJvcB3Ny8 $\begin{smallmatrix} -1.3-8 & 0.0 & 1.7-0 & 3.7-0 & 5-7-0 & 7-7-0 & 9-7-0 & 11-7-0 & 13-7-0 & 15-2-0 & 11-7-0 & 12-0-0 & 1-7-0 & 11-7-0 &$

3x5 ||

G 14.00 12 D 15-2-0 $\begin{smallmatrix} 0.0 & -1.7-0 & 3.7-0 & 5.7-0 & 7.7-0 & 9.7-0 & 11.7-0 & 13.7-0 & 15.2-0 & 1.7-0 &$

TOTAL WEIGHT = 98 II

Scale = 1:65.8

ULES			
		LIBARER	DECOR
SIZE	122202	LUMBER	DESCR.
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x4	DRY	No.2	SPF
2x3	DRY	No.2	SPF
2x4	DRY	No.2	SPF
WEBS			
2x3	DRY	No.2	SPF
2x4	DRY	No.2	SPF
	2x4 2x4 2x4 2x3 2x3 2x4 WEBS 2x3	2x4 DRY 2x4 DRY 2x4 DRY 2x4 DRY 2x4 DRY 2x3 DRY 2x4 DRY 2x4 DRY 2x4 DRY	2x4 DRY No.2 2x3 DRY No.2 2x4 DRY No.2 2x4 DRY No.2 WEBS 2x3 DRY No.2

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

JT	TYPE	PLATES	W	LEN	Y	X
В	TMV+p	MT20	2.0	4.0		
C,	D, E, G, H, I					
C	TMW+w	MT20	2.0	4.0		
F	TTW+p	MT20	3.0	5.0	2.75	1.50
J	TMV+p	MT20	2.0	4.0		
K	BMV1+p	MT20	2.0	4.0		
L, I	M, N, O, P, C	a, R				
L	BMW1+w	MT20	2.0	4.0		
S	BMV1+p	MT20	2.0	4.0		

DIMENSIONS, SUPPORTS AND LOADINGS SPECIFIED BY FABRICATOR TO BE VERIFIED BY BUILDING DESIGNED 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 = 6.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 1x4 LATERAL BRACE(S) AT 1/2 LENGTH OF F-O, E-P, G-N. DBS = 20-0-0 . CBF = 37 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122°X3°) SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

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

LOADING TOTAL LOAD CASES: (4)

CH	ORDS					WE	BS	
MAX	FACTORED	FACTO	DRED				MAX. FACTO	ORED
MEMB.	FORCE	VERT. L	OAD L	C1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(P	LF)	CSI (LC)	UNBRA	C	(LBS)	CSI (LC)
FR-TO		FROM	TO		LENGTH	IFR-TO		
S-B	-320 / 0	0.0	0.0	0.03 (1)	7.81	O-F	-297 / 0	0.22(1)
A-B	0 / 66	-124.4	-124.4	0.18 (1)	10.00	P-E	-248 / 0	0.15(1)
B-C	-39 / 0	-124.4	-124.4	0.14 (1)	6.25	Q-D	-260 / 0	0.24(1)
C-D	0/19	-124.4	-124.4	0.07 (1)	10.00	R-C	-142/0	0.05(1)
D-E	0 / 14	-124.4	-124.4	0.06 (1)	10.00	N-G	-250 / 0	0.15(1)
E-F	0/22	-124.4	-124.4	0.07 (1)	10.00	M-H	-247 / 0	0.23(1)
F- G	0/21	-124.4	-124.4	0.07 (1)	10.00	L-1	-229 / 0	0.08(1)
G-H	0 / 15	-124.4	-124.4	0.06 (1)	10.00			
H-1	0/11	-124.4	-124.4	0.06 (1)	10.00			
I- J	0 / 17	-124.4	-124.4	0.05 (1)	10.00			
K-J	-69 / 0	0.0	0.0	0.01 (1)	7.81			
S-R	-2/0	-39.2	-39.2	0.02 (3)	10.00			
R-Q	-6 / 0	-39.2	-39.2	0.03 (3)	10.00			
Q-P	-10 / 0	-39.2	-39.2	0.03 (3)	10.00			
P-0	-13 / 0	-39.2	-39.2	0.02 (3)	6.25			
0- N	-13 / 0			0.02 (3)				
N-M	-10/0	-39.2	-39.2	0.03 (3)	10.00			
M-L	-6 / 0	-39.2	-39.2	0.03 (3)	10.00			
L-K		-39.2	-39.2	0.02 (3)	10.00			

DESIGN CRITERIA

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 BOBC 2018, ABC 2019
- PART 9 OF OBC 2012 (2019 AMENDMENT)
- CSA 088-14

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=0.18/1.00 (A-B:1) , BC=0.03/1.00 (P-Q:3) , WB=0.24/1.00 (D-Q:1) , SSI=0.09/1.00 (A-B:1)

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

COMPANION LIVE LOAD FACTOR = 1.00

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

NAIL VALUES

PLATE GRIP(DRY) SHEAR SECTION (PSI) (PLI) (PLI) MAX MIN MAX MIN MAX MIN MT20 850 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.26 (J) (INPUT = 0.90) JSI METAL= 0.16 (B) (INPUT = 1.00)



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



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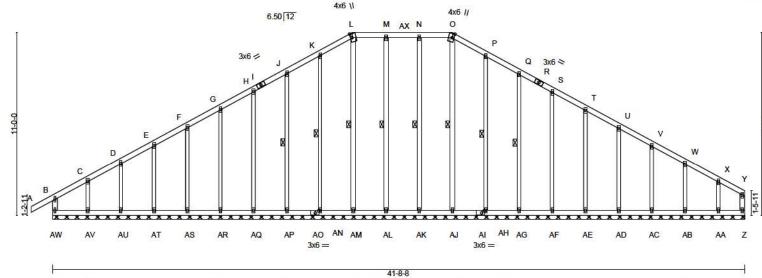
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



JOB DESC. JOB NAME TRUSS NAME GREENPARK - TRINAR HALL - GLENWARWG NO. QUANTITY 2A ELE 1 Page 7 of 21 GE02 NE1220-106 TRUSS DESC Version 8.420 S Oct 9 2020 MiTek Industries, Inc.

ID:QAUYU2sLbYFcYQaF3vSyOazGb1I-pCh5L5ZYZ7xHtSpZ4BTkYn6HB5UX12qImD5I7Fy8

Scale = 1:69 4



LUMBER N. L. G. A. RULES DESCR. SPF SPF SPF SPF SPF SPF SPF CHORDS LUMBER SIZE 2x4 В DRY 2x4 2x4 2x4 2x4 2x4 DRY DRY DRY ORYY No.2 No.2 2x4 2x4 2x4 DRY No.2 No.2 DRY AW AO DRY No.2 AO-Al Z SPF ALL WEBS EXCEPT AJ- O AK- N AL- M AM- L DRY SPF SPF SPF SPF DRY 2x4 2x4 DRY No.2 No.2 No.2 ALL GABLE WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

PLATES (table is in inches)
JT TYPE PLATES W
B TMV+p MT20 2.0 LEN Y X 4.0 ST TMV+p MT20 2.0 4.0 C, D, E, F, G, H, J, K, M, N, P, Q, S, T, U, V, W, X C TMW+w MT20 2.0 4.0 TS-t MT20 3.0 6.0 TMW+w TS-t MT20 MT20 2.0 4.0 3.0 6.0

1S-t M12U 3.0 6.0 Edge 1.25 TTW+m MT2U 4.0 6.0 Edge 1.25 TS-t MT2U 3.0 6.0 Edge 1.25 TS-t MT2U 3.0 6.0 TMV+p MT2U 2.0 4.0 BMV1+p MT2U 2.0 4.0 BMV1+p MT2U 2.0 4.0 SAB, AC, AD, AE, AF, AG, AH, AJ, AK, AL, AM, AN, AP, AQ, AR, SAT, ALL AS, AT, AU, AV AA BMW1+w MT20 2.0 4.0

> PROFESSIONAL CHOOL 6 16, 2020 Dec

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

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

 $\begin{smallmatrix} 0.0 \\ 2.1-7 \end{smallmatrix}, \begin{smallmatrix} 2-1-7 \\ 2-0.0 \end{smallmatrix}, \begin{smallmatrix} 2-1-7 \\ 2-0.0 \end{smallmatrix}, \begin{smallmatrix} 2-0.0 \\ 2-0$

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT ALL BEARING JOINTS FOR 150 LBS FACTORED UPLIFT

PROVIDE FOR 225 LBS FACTORED HORIZONTAL REACTION AT JOINAW

HORIZONTAL REACTIONS

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

FOR SECTION L-O, MAX. UNBRACED TOP CHORD LENGTH = 2.00 FT. FOR OTHER SECTIONS, MAX. UNBRACED TOP CHORD LENGTH = 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.

2x4 DRY SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF O-AJ, N-AK, M-AL, L-AM, K-AN, J-AP, P-AH, Q-AG. DBS = 20-0-0 . CBF = 53 LBS.

DBS = DIAGONAL BRACE SPACING (MAX), CBF = CUMULATIVE BRACING FORCE (PER BRACE), FASTEN LATERAL BRACE(S) USING (0.122°X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

WEBS

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: (18)

CHORDS

CH	URDS		VV E	85	
MAX	. FACTORED	FACTORED		MAX. FACTO	DRED
MEMB.	FORCE	VERT. LOAD LC1 MAX I	MAX. MEMB.		MAX
	(LBS)	(PLF) CSI (LC) U	UNBRAC	(LBS)	CSI (LC)
FR-TO		FROM TO L	LENGTHFR-TO		
AW-B	-508 / 64	0.0 0.0 0.14 (13)	7.81 AJ-O	-422 / 0	0.26 (3)
A-B	0 / 63	-165.5 -165.5 0.26 (2)	10.00 AK-N	-377 / 30	0.23 (3)
B-C	-165 / 119	-165.5 -165.5 0.10 (2)	6.25 AL- M	-381 / 33	0.24 (2)
C-D	-135 / 128	-165.5 -165.5 0.09 (2)	6.25 AM-L	-421 / 0	0.26 (2)
D-E	-105 / 140	-165.5 -165.5 D.09 (2)	6.25 AN- K	-377 / 79	0.25 (2)
E-F	-74 / 170	-165.5 -165.5 0.09 (2)	6.25 AP- J	-390 / 90	0.20(2)
F- G	-60 / 200	-165.5 -165.5 D.09 (2)	8.25 AQ-H	-386 / 86	0.44 (2)
G-H	-54 / 230	-165.5 -165.5 D.D9 (2)	6.25 AR- G	-387 / 86	0.29 (2)
H-1	49 / 260	-165.5 -165.5 0.09 (2)	6.25 AS-F	-386 / 86	0.19(2)
I- J	-49 / 260	-165.5 -165.5 0.09 (2)	6.25 AT- E	-385 / 86	0.12(2)
J- K	-47 / 292	-165.5 -165.5 0.09 (2)	6.25 AU- D	-384 / 85	0.08 (2)
K-L	-39 / 318	-165.5 -165.5 D.10 (2)	6.25 AV- C	-384 / 85	0.08 (2)
L-M	-35 / 296	-178.0 -178.0 0.10 (2)	2.00 AH-P	-387 / 79	0.26 (3)
M-AX	-35 / 296	-178.0 -178.0 0.08 (1)	2.00 AG- Q	-388 / 90	0.20 (3)
AX-N	-35 / 296	-178.0 -178.0 0.08 (1)	2.00 AF- S	-387 / 86	0.43 (3)
N-O	-35 / 296	-178.0 -178.0 0.10 (3)	2.00 AE-T	-386 / 86	0.29(3)
0- P	-36 / 308	-165.5 -165.5 0.10 (3)	6.25 AD- U	-386 / 86	0.18 (3)
P-Q	-32 / 262	-165.5 -165.5 0.09 (3)	6.25 AC- V	-383 / 87	0.12 (3)
Q-R	-29 / 211	-165.5 -165.5 0.09 (3)	6.25 AB- W	-394 / 79	0.08 (3)
R-S	-29 / 211	-165.5 -165.5 0.09 (3)	6.25 AA- X	-338 / 127	0.05 (3)
S-T	-28 / 163	-165.5 -165.5 0.09 (3)	6.25		A540
T-U	-27 / 125	-165.5 -165.5 0.09 (3)	6.25		Town of C 111: 1
U-V	-33 / 95	-165.5 -165.5 0.09 (3)	6.25		East Gwillimbury
V-W	-43 / 65	-165.5 -165.5 0.09 (3)	6.25		Building Standards Branch BCIN #16487
W-X	48 / 36	-165.5 -165.5 0.09 (3)	6.25		
X-Y	-92 / 22	-165.5 -165.5 O.07 (3)	6.25		
Z-Y	-173 / 16	0.0 0.0 0.07 (14)	7.81		These plans have been reviewed for use with the
					corrections as noted. No other changes may be
AW-AV	-32 / 112	-39.2 -39.2 0.07 (13)	6.25		made without written approval of the Building
AV-AU	-30 / 114	-39.2 -39.2 0.03 (17)	6.25		Standards Branch. All work must comply with
AU-AT	-29 / 115	-39.2 -39.2 0.03 (17)	6.25		Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These
AT-AS	-28 / 115	-39.2 -39.2 0.03 (17)	8.25		approved documents must be kept on site at all
AS-AR	-28 / 116	-39.2 -39.2 0.03 (17)	6.25		times. The building permit must be clearly
AR-AQ	-27 / 116	-39.2 -39.2 0.03 (17)	6.25		posted on site at all times.
AQ-AP	-27 / 117	-39.2 -39.2 0.03 (17)	6.25		
AP-AO	-26 / 117	-39.2 -39.2 0.03 (17)			Discipline Reviewer BCIN Date Building Code H Author 42226 2021-02-08
AO-AN	-26 / 117	-39.2 -39.2 0.03 (17)	6.25		11. Additer 43236 2021 02 00
AN-AM	-26 / 118	-39.2 -39.2 0.03 (17)	6.25		Sewage System
AM-AL	-28 / 117	-39.2 -39.2 0.03 (17)	6.25		Zoning
AL-AK	-26 / 117	-39.2 -39.2 0.03 (17)	6.25		

DESIGN CRITERIA

SPECIFIED LOADS TOP CH. LL = 46.9
DL = 10.0
BOT CH. LL = 10.5
DL = 7.3
TOTAL LOAD = 74.8

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE HEEL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018 , ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED -OVERHANG NOT TO BE ALTERED OR CUT OFF.

(80 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.26/1.00 (A-B:2) , BC=0.08/1.00 (Z-AA:14) , WB=0.44/1.00 (H-AQ:2) , SSI=0.18/1.00 (A-B:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00
LIVE LOAD IMPORTANCE FACTOR = 1.00
COMPANION LIVE LOAD FACTOR = 1.00

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.47 (L) (INPUT = 0.90) JSI METAL= 0.30 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - TRINAR HALL - GLENWARWG NO.	
NE1220-106	GE02	1	1	TRUSS DESC.	2A ELE 1	Page 8 of 21

Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 14:36:52 2020 Page 2 ID:QAUYU2sLbYFcYQaF3vSyOazGb1l-pCh5L5ZYZ7xHtSpZ4BTkYn6HB5UX12glmD5l7Fy8

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

LOADING TOTAL LOAD CASES: (18)

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.9} PSF AT {25.4-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CPG, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM).INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (ROUGH TERRAIN) AT MINIMUM (1.000) MILES DISTANCE FROM OPEN TERRAIN, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (1-0-) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amedied. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

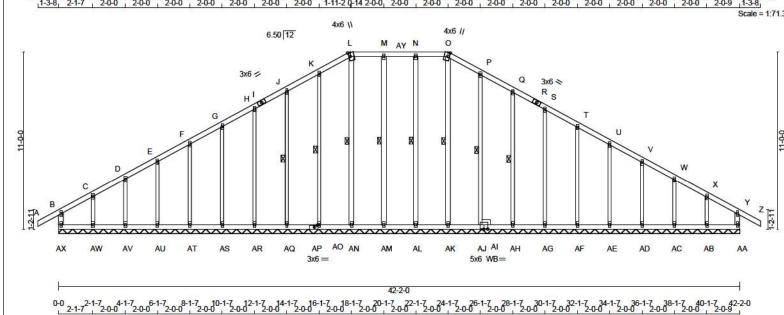
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			



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

JOB DESC. JOB NAME TRUSS NAME QUANTITY GREENPARK - TRINAR HALL - GLENWARWG NO. 2A ELE 1 Page 9 of 21 NE1220-106 GE03 TRUSS DESC Version 8.420 S Oct 9 2020 MiTek Industries, Inc. Thu Dec 17 14:36:54 2020 Page

ID:QAUYU2sLbYFcYQaF3vSyOazGb1I-lbprmnbp5lB?7lzyBcVCdCBdqvACVyA2EXaPC8y82 $\begin{array}{c} \textbf{-13-8} & \textbf{0.0} & \textbf{2.1-7} & \textbf{2-1-7} & \textbf{2-1-7} & \textbf{2-1-7} & \textbf{2-1-7} & \textbf{3-1-7} & \textbf{3-1-$



LUMBER N. L. G. A. RULES DESCR. SPF SPF SPF SPF SPF SPF SPF No.2 No.2 No.2 No.2 CHORDS AX- B SIZE 2x4 В DRY 2x4 2x4 2x4 2x4 2x4 DRY DRY DRY L -O -R -AA-AX-AP-AI -No.2 No.2 2x4 2x4 2x4 DRY DRY No.2 No.2 AP AI AA DRY No.2 SPF ALL WEBS EXCEPT AK- O AL- N AM- M AN- L DRY SPF SPF SPF SPF 2x4 2x4 DRY No.2 No.2 No.2 ALL GABLE WEBS 2x3 DRY No.2 SPF EXCEPT

DRY: SEASONED LUMBER.

GABLE STUDS SPACED AT 2-0-0 OC.

JT	TYPE	PLATES	W	LEN	Y	X	
В	TMV+p	MT20	2.0	4.0			
C,	D. E. F. G. F	I, J, K, M, N,	P. Q.	S. T. I	J. V.	W, X	
C	TMW+w	MT20	2.0	4.0			
1	TS-t	MT20	3.0	6.0			
L	TTW+m	MT20	4.0	6.0	Ed	ge 1.25	
	TTW+m	MT20	4.0	6.0	Ed	ge 1.25	
R	TS-t	MT20	3.0				
Y	TMV+p	MT20	2.0	4.0			
AA	BMV1+p	MT20	2.0	4.0			
	, AC, AD, AB J, AV, AW	E, AF, AG, A	H, AK,	AL, A	M, A	AN, AO, AQ, AR, AS	S, AT,
AB	BMW1+w	MT20	2.0	4.0			



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

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

THIS TRUSS DESIGNED FOR CONTINUOUS BEARINGS.

THIS TRUSS REQUIRES RIGID SHEATHING ON EXPOSED FACE.

PROVIDE ANCHORAGE AT ALL BEARING JOINTS FOR 150 LBS FACTORED UPLIFT.

PROVIDE FOR 222 LBS FACTORED HORIZONTAL REACTION AT JOINAX

HORIZONTAL REACTIONS

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

BRACING
FOR SECTION L-O, MAX. UNBRACED TOP CHORD LENGTH = 2.00 FT.
FOR OTHER SECTIONS, MAX. UNBRACED TOP CHORD LENGTH = 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.

1 - 2x4 DRY SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF O-AK, N-AL, M-AM, L-AN, K-AO, J-AQ, P-AJ, Q-AH. DBS = 20-0-0 . CBF = 53 LBS.

DBS = DIAGONAL BRACE SPACING (MAX), CBF = CUMULATIVE BRACING FORCE (PER BRACE), FASTEN LATERAL BRACE(S) USING (0.122*X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 8 FOR 2x12.

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

LOADING TOTAL LOAD CASES: (18)

		2.75						
CH	ORDS					WE	BS	
MAX	FACTORED	FACTO	RED				MAX. FACTO	ORED
MEMB.	FORCE	VERT. LO	DAD LO	1 MAX	MAX.	MEMB.	FORCE	MAX
	(LBS)	(PI	LF) (CSI (LC)	UNBRA	C	(LBS)	CSI (LC)
FR-TO	1002001500	FROM	TO	CONTRACTOR OF	LENGT	HFR-TO	***************************************	Jesus Contract
AX-B	-506 / 54	0.0	0.0	0.14 (13	7.81	AK-O	-420 / 0	0.26(3)
A-B	0 / 63	-165.5	-165.5	0.26 (2)	10.00	AL- N	-377 / 30	0.23 (3)
B-C	-157 / 98	-165.5	-165.5	0.10(2)	6.25	AM- M	-381/33	0.24(2)
C-D	-127 / 107	-165.5	-165.5	0.09(2)	6.25	AN-L	-420 / 0	0.26(2)
D-E	-97 / 119	-165.5	-165.5	0.09(2)	6.25	AO-K	-377 / 79	0.25(2)
E-F	-66 / 149	-165.5	-165.5	0.09(2)	6.25	AQ-J	-390 / 90	0.20(2)
F- G	-55 / 179	-165.5	-165.5	0.09(2)	6.25	AR-H	-386 / 86	0.44(2)
G-H	-50 / 209	-165.5	-165.5	0.09(2)	8.25	AS- G	-387 / 86	0.29(2)
H-1	-45 / 239			0.09(2)			-386 / 86	0.19(2)
1- J	-45 / 239	-165.5	-165.5	0.09(2)	6.25	AU-E	-385 / 86	0.12(2)
J-K	-43 / 271	-165.5	-165.5	0.09(2)	6.25	AV-D	-384 / 85	0.08(2)
K-L	-35 / 297	-165.5	-165.5	0.10(2)	6.25	AW- C	-384 / 85	0.06(2)
L-M	-31 / 278			0.10(2)			-387 / 80	0.26(3)
M-AY	-31 / 278			0.08(1)	2.00		-388 / 90	0.20(3)
AY-N	-31 / 278	-178.0	-178.0	0.08 (1)	2.00	AG-S	-387 / 86	0.43(3)
N-O	-31 / 278	-178.0	-178.0	0.10(3)	2.00	AF-T	-386 / 86	0.29(3)
0- P	-32 / 287	-165.5	-165.5	0.10(3)	6.25	AE-U	-386 / 86	0.18(3)
P-Q	-30 / 241	-165.5	-165.5	0.09 (3)	6.25		-385 / 86	0.12(3)
Q-R	-27 / 190	-165.5	-165.5	0.09(3)	6.25	AC-W	-385 / 86	0.08(3)
R-S	-27 / 190	-165.5	-165.5	0.09(3)	8.25	AB- X	-377 / 84	0.06(3)
S-T	-27 / 155			0.09(3)	6.25			
T- U	-33 / 125			0.09(3)	6.25			
U-V	-39 / 95			0.09(3)	6.25			~==
V-W	-48 / 65			0.09 (3)	8.25) III
W-X	-58 / 35	-165.5	-165.5	0.09(3)	6.25			
X-Y	-98 / 25	-165.5	-165.5	0.09 (3)	6.25			Our town, that fishers
Y-Z	0 / 63	-165.5	-165.5	0.26 (3)	10.00			
AA-Y	-489 / 28	0.0	0.0	0.11 (14	7.81			These plans l
								corrections as
AX-AW	-35 / 158			0.07 (13				made withou
AW-AV	-34 / 159	-39.2		0.03 (17				Standards Br Zoning Bv-L
AV-AU	-33 / 160			0.03 (17				Ontario Bui
AU-AT	-32 / 161			0.03 (17				approved doc
AT-AS	-31 / 162	-39.2		0.03 (17				times. The
AS-AR	-31 / 162	-39.2		0.03 (17				posted on site
AR-AQ	-30 / 162	-39.2		0.03 (17	8.25			
AQ-AP	-30 / 163	-39.2	-39.2	0.03 (17	6.25			Discipline Building Cod
AP-AO	-30 / 163	-39.2	-39.2	0.03 (17	8.25			Dunding Con

6.25 6.25

-39.2 -39.2

-39.2 0.03 (17) -39.2 0.03 (17)

AP-AO AO-AN

-30 / 163 -30 / 163

-30 / 162 -30 / 162



These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amended. These approved documents must be kept on site at all times. The building normit must be also as the contract of the con

Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

DESIGN CRITERIA

SPECIFIED LOADS TOP CH. LL = 46.9
DL = 10.0
BOT CH. LL = 10.5
DL = 7.3
TOTAL LOAD = 74.8

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 8.00/12 AND -8.00/12 AND RESPECTIVE HEEL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
- PART 4 OF BCBC 2018 , ABC 2019
- PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14

DESIGN ASSUMPTIONS
- SLOPE REDUCTION FACTOR NOT USED
-OVERHANG NOT TO BE ALTERED OR CUT OFF.

(80 % OF 48.1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F. SPECIFIED ROOF LIVE LOAD

CSI: TC=0.26/1.00 (Y-Z:3), BC=0.07/1.00 (AA-AB:14), WB=0.44/1.00 (H-AR:2), SSI=0.18/1.00 (Y-Z:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 1.00

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

PLATE PLACEMENT TOL. = 0.250 inches

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.68 (AJ) (INPUT = 0.90) JSI METAL= 0.30 (B) (INPUT = 1.00)



JOB NAME	TRUSS NAME	QUANTITY	PLY	JOB DESC.	GREENPARK - TRINAR HALL - GLENW	ДРУГ ИО.
NE1220-106	GE03	1	1	TRUSS DESC.	2A ELE 1	Page 10 of 21

Version 8.420 S Oct 9 2020 MTek Industries, Inc. Thu Dec 17 14:36:55 2020 Page 2

ID:QAUYU2sLbyFcyQaF3vSyOazGb1I-EnND_7bRs2Jskvy8lK1R9PkoQJVREPQCSBKykay8

PLATES (table is in inches)
JT TYPE PLATES W LEN Y X
AI
AJ
AJ BBW1-I MT20 5.0 6.0 0.25 3.00
AP BS+ MT20 3.0 6.0 1.50 2.50
AX BMV1+p MT20 2.0 4.0

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

LOADING TOTAL LOAD CASES: (18)

C H O R D S

MAX. FACTORED FACTORED

MEMB. FORCE VERT. LOAD LC1 MAX MAX. MEMB. FORCE MAX (LBS)

FR-TO

AL-AK -30 / 102 -39.2 -39.2 0.03 (17) 6.25

AJ-AI -30 / 102 -39.2 -39.2 0.03 (17) 6.25

AJ-AI -30 / 102 -39.2 -39.2 0.03 (17) 6.25

AJ-AA -30 / 102 -39.2 -39.2 0.03 (17) 6.25

AJ-AA -30 / 102 -39.2 -39.2 0.03 (17) 6.25

AJ-AA -30 / 103 -39.2 -39.2 0.03 (17) 6.25

AJ-AA -30 / 103 -39.2 -39.2 0.03 (17) 6.25

AG-AB -30 / 108 -39.2 -39.2 0.03 (17) 6.25

AG-AB -30 / 108 -39.2 -39.2 0.03 (17) 6.25

AE-AB -30 / 108 -39.2 -39.2 0.03 (17) 6.25

AE-AB -30 / 108 -39.2 -39.2 0.03 (17) 6.25

AE-AB -30 / 108 -39.2 -39.2 0.03 (17) 6.25

AB-AA -30 / 105 -39.2 -39.2 0.03 (17) 6.25

AB-AA -30 / 105 -39.2 -39.2 0.03 (17) 6.25

AB-AA -30 / 105 -39.2 -39.2 0.03 (17) 6.25

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSURE OF { 7.9} PSF AT {25.4-0} FT-IN-SX REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEFFICIENTS, CPG, BASED ON THE (MAIN WIND FORCE RESISTING SYSTEM). INTERNAL WIND PRESSURE IS BASED ON DESIGN (CATEGORY 2). BUILDING MAY BE LOCATED ON (ROUGH TERRAIN) AT MINIMUM (1.000) MILES DISTANCE FROM OPEN TERRAIN, AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (T-0.) FT-IN-SX AWAY FROM EAVE.TRUSS UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PSF AND 5.0 PSF RESPECTIVELY.

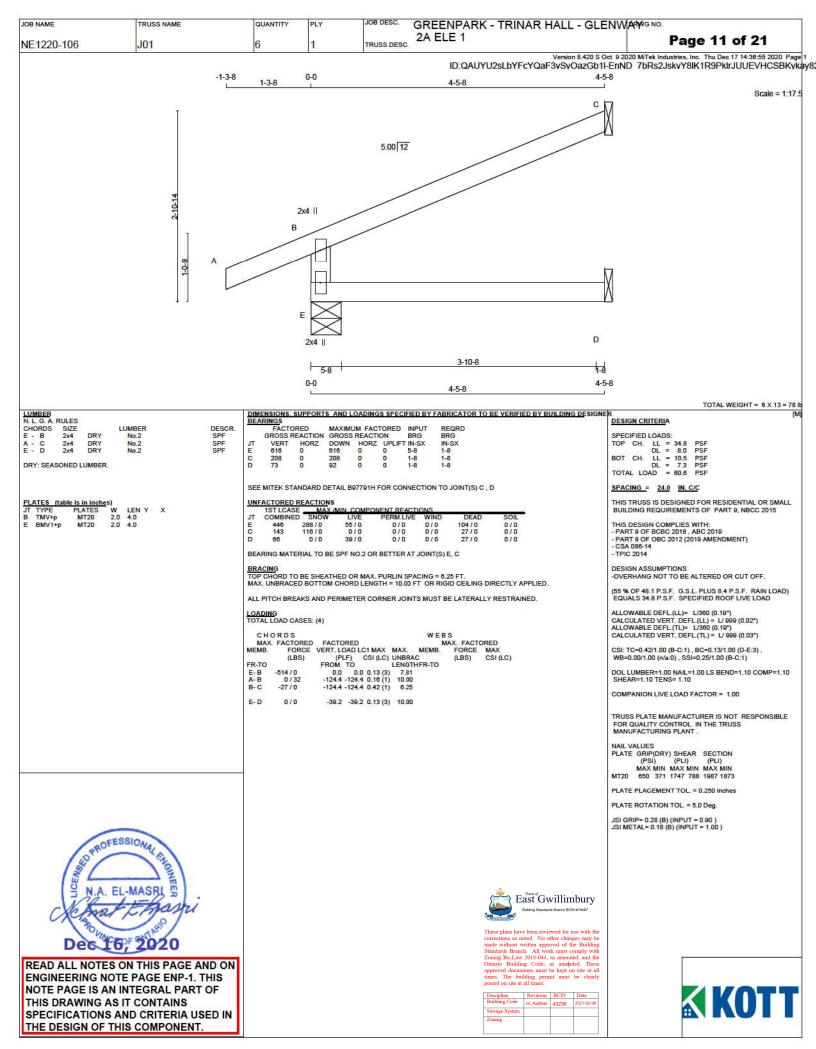


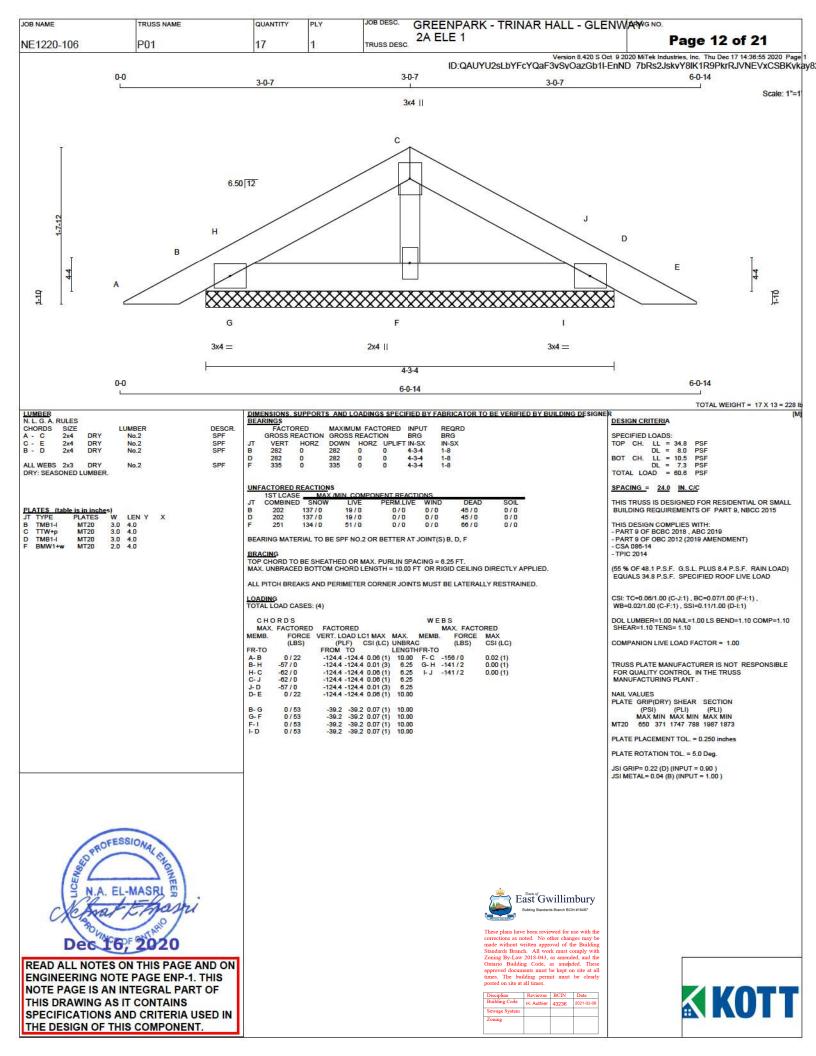
These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-043, as amended, and the Ontario Building Code, as amedied. These approved documents must be kept on site at all times. The building permit must be clearly posted on site at all times.

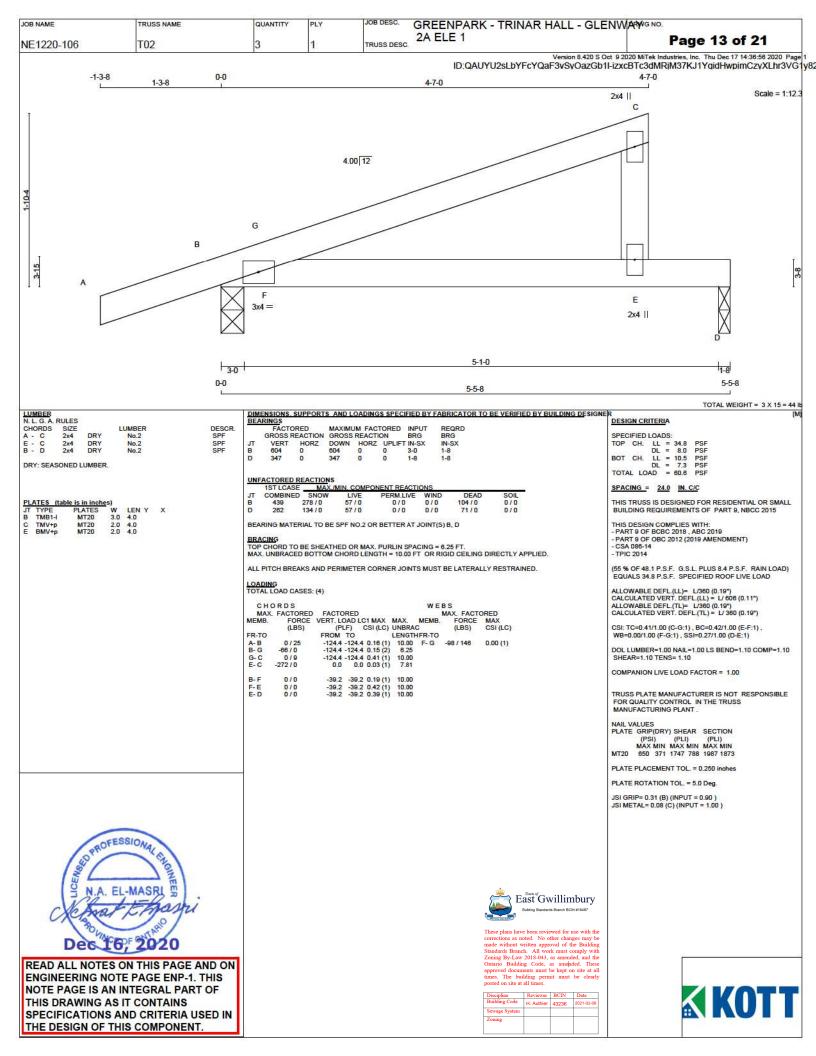
Discipline	Reviewer	BCIN	Date
Building Code	H. Authier	43236	2021-02-08
Sewage System			
Zoning			

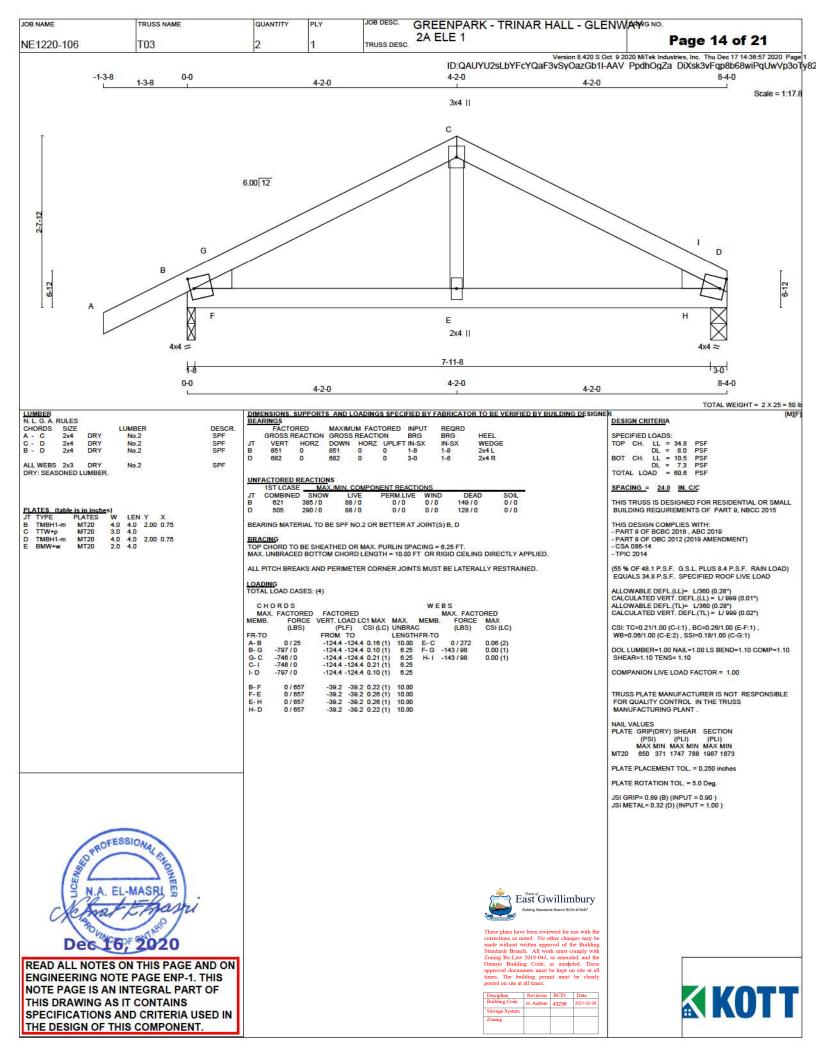


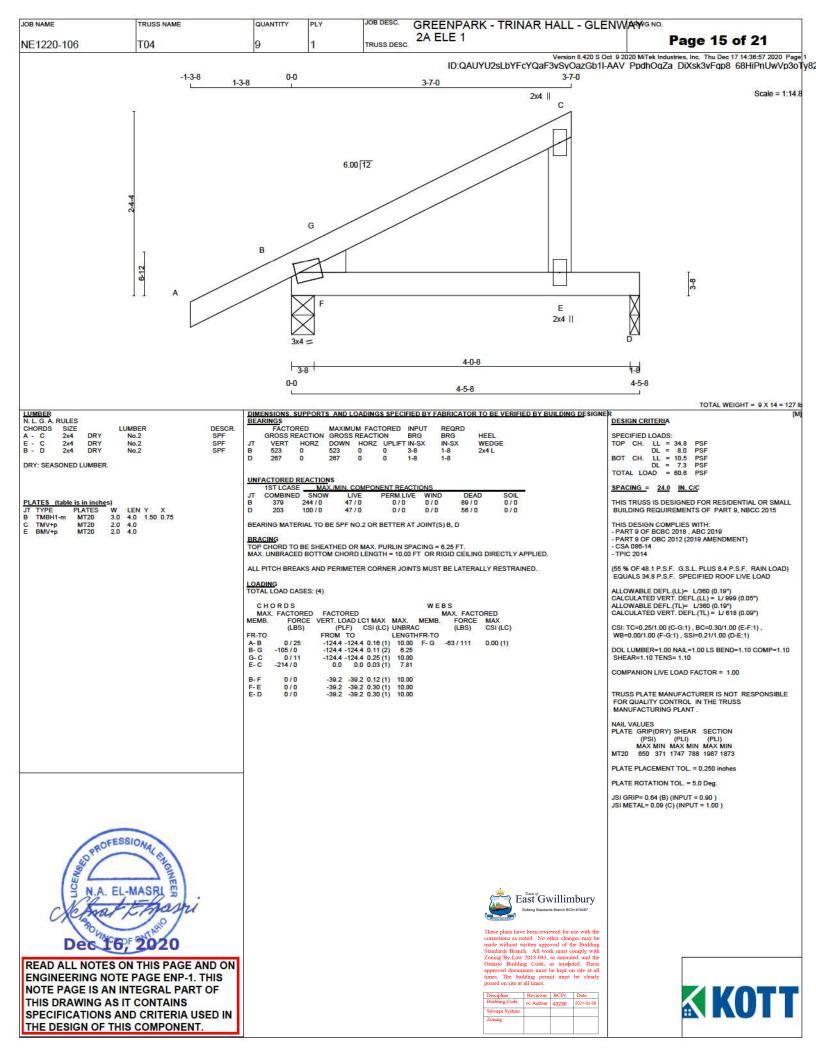
READ ALL NOTES ON THIS PAGE AND ON ENGINEERING NOTE PAGE ENP-1. THIS NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA USED IN THE DESIGN OF THIS COMPONENT.

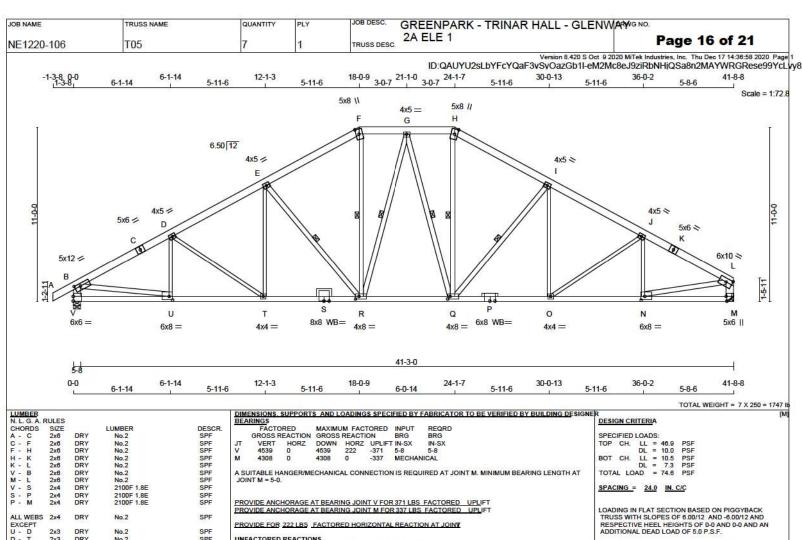












N. L. G. A. CHORDS	SIZE		LUMBER	DESCR
A - C	2x6	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H-K	2x6	DRY	No.2	SPF
K - L	2x6	DRY	No.2	SPF
V - B	2x6	DRY	No.2	SPF
M - L	2x6	DRY	No.2	SPF
V - S	2x4	DRY	2100F 1.8E	SPF
S - P	2x4	DRY	2100F 1.8E	SPF
P - M	2x4	DRY	2100F 1.8E	SPF
ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
U - D	2x3	DRY	No.2	SPF
D - T	2x3	DRY	No.2	SPF
T - E	2x3	DRY	No.2	SPF
0 - 1	2x3	DRY	No.2	SPF
0 - J	2x3	DRY	No.2	SPF
N - J	2x3	DRY	No.2	SPF

JΤ	TYPE	PLATES	W	LEN	Y	X
В	TMVW-t	MT20	5.0	12.0	2.00	4.50
C	TS-t	MT20	5.0	6.0		
D,	E. G. I. J					
D	TMWW-t	MT20	4.0	5.0		
F	TTW+m	MT20	5.0	8.0	4.00	2.25
H	TTW+m	MT20	5.0	8.0	4.00	2.25
K	TS-t	MT20	5.0	6.0		
L	TMVW-t	MT20	6.0	10.0	2.75	4.50
M	BMV1+t	MT20	5.0	6.0	Edge	0.50
N	BMWW-t	MT20	6.0	8.0	2.75	2.75
0	BMWW-t	MT20	4.0	4.0		
P	BS-t	MT20	6.0	8.0		
Q	BMWWW-t	MT20	4.0	8.0	2.00	1.75
R	BMWWW-t	MT20	4.0	8.0	2.00	2.75
S	BS-t	MT20	8.0	8.0		
T	BMWW-t	MT20	4.0	4.0		
U	BMWW-t	MT20	6.0	8.0	2.75	2.75
V	BMV1-t	MT20	6.0	6.0	3.50	



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

UNFACTORED REACTIONS

	1ST LCASI	E MAX	MIN COMP	ONENT REACT	IONS		
JT	COMBINE	NOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
V	3302	2085 / 0	438 / 0	0/0	143 / -562	780 / 0	0/0
M	3144	1953 / 0	438 / 0	0/0	138 / -528	752/0	0/0
но	RIZONTAL R	EACTIONS					
V		0/0	0/0	0/0	159 / -147	0/0	0 /0

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

BRACING FOR SECTION F-H, MAX. UNBRACED TOP CHORD LENGTH = 2.00 FT. FOR OTHER SECTIONS, MAX. UNBRACED TOP CHORD LENGTH = 2.95 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT. OR RIGID CEILING DIRECTLY APPLIED.

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

1-2x4 DRY SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF E-R, F-R, G-R, G-Q, H-Q, I-Q. DBS = 20-0-0 . CBF = 223 LBS.

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122"X3") SPIRAL NAILS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x8, 5 FOR 2x10, AND 6 FOR 2x12.

WEBS

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: (18) CHORDS

MAX	FACTORED	FACTOR	ED			MAX. FACTO	ORED	
IEMB.	FORCE	VERT. LOA	D LC1 MAX	MAX.	MEMB	. FORCE	MAX	
	(LBS)	(PLF)	CSI (LC	UNBRA	C	(LBS)	CSI (LC))
R-TO		FROM TO	0	LENGT	HFR-TO			
4- B	0 / 65	-165.5 -1	65.5 0.14 (2	10.00	U-D	-563 / 109	0.15(7)	
B- C	-6322 / 498	-165.5 -1	65.5 0.71 (2	2.95	D-T	-823 / 174	0.83(2)	
C- D	-8322 / 498	-165.5 -1	65.5 0.71 (2	2.95	T-E	-48 / 705	0.16(2)	
D-E	-5822 / 498	-165.5 -1	65.5 0.65 (2	3.13	E-R	-1785 / 297	0.81(2)	
E-F	4801 / 444	-165.5 -1	65.5 0.57 (2	3.50	R-F	-146 / 1583	0.25(1)	
F- G	-4200 / 447	-178.0 -1	78.0 0.26 (1	2.00	R-G	-919 / 645	0.60(3)	
3- H	4174 / 441	-178.0 -1	78.0 0.26 (1	2.00	G-Q	-990 / 572	0.64(2)	
H- I	4772 / 438	-165.5 -1	65.5 0.57 (3	3.50	Q-H	-147 / 1571	0.25 (1)	
- J	-5688 / 482	-165.5 -1	65.5 0.65 (3	3.17	Q-1	-1660 / 285	0.75(3)	
J- K	-5920 / 464	-165.5 -1	65.5 0.58 (3	3.17	0-1	-30 / 550	0.12(3)	
K-L	-5920 / 464	-165.5 -1	65.5 0.58 (3	3.17	0- J	-547 / 155	0.55(3)	
V- B	4435 / 393	0.0	0.0 0.28 (1	5.13	N-J	-783 / 124	A 24 /41	
M-L	-4213 / 356	0.0	0.0 0.28 (1	5.25	B- U	-351 / 5640	-	Town of 111 1
					N-L	-348 / 5327),,,	East Gwillimbury
V- U	-213 / 202	-39.2 -	39.2 0.18 (1	7) 6.25			- Color	Building Standards Branch BCIN #16487
J- T	-514 / 5591	-39.2 -	39.2 0.51 (1	6.25				
T-S	-372 / 5124	-39.2 -	39.2 0.49 (1	6.25				
5- R	-372 / 5124	-39.2	39.2 0.49 (1	6.25			These plan	s have been reviewed for use with the
R- Q	-184 / 4255	-39.2 -	39.2 0.42 (1	6.25				as noted. No other changes may be
2- P	-211/5011	-39.2 -	39.2 0.48 (1	6.25				out written approval of the Building
P- 0	-211 / 5011	-39.2 -	39.2 0.48 (1	6.25				Branch. All work must comply with
D- N	-330 / 5236	-39.2 -	39.2 0.48 (1	6.25				-Law 2018-043, as amended, and the suilding Code, as amended. These
N-M	-6 / 13	-39.2 -	39.2 0.16 (1	7) 10.00			approved of times. The	ductured by the clearly site at all building permit must be clearly site at all times.
							posted on s	are ar an unies.

Discipline Building Code

43236

TRUSS HAS BEEN CHECKED FOR UNBALANCED LOADING AS PER NBCC 4.1.6.2.(8)

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
-PART 4 OF BCBC 2018, ABC 2019
-PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14

DESIGN ASSUMPTIONS - SLOPE REDUCTION FACTOR NOT USED

(80 % OF 48 1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.39°)
CALCULATED VERT. DEFL.(LL)= L/999 (0.23°)
ALLOWABLE DEFL.(TL)= L/180 (2.78°)
CALCULATED VERT. DEFL.(TL)= L/999 (0.33°)

CSI: TC=0.71/1.00 (B-D:2) , BC=0.51/1.00 (T-U:1) , WB=0.91/1.00 (B-U:1) , SSI=0.37/1.00 (B-D:2)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 1.00

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

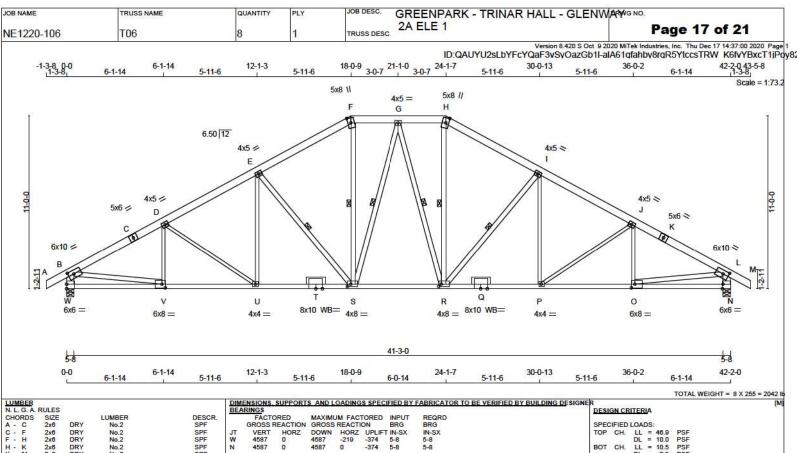
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN 650 371 1747 788 1987 1873

PLATE PLACEMENT TOL. = 0.250 inche

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.90 (S) (INPUT = 0.90) JSI METAL= 0.98 (P) (INPUT = 1.00)





LUMBER				
N. L. G. A. F	RULES			
CHORDS	SIZE		LUMBER	DESCR
A - C	2x6	DRY	No.2	SPF
C - F	2x6	DRY	No.2	SPF
F - H	2x6	DRY	No.2	SPF
H - K	2x6	DRY	No.2	SPF
K - M	2x6	DRY	No.2	SPF
W-B	2x6	DRY	No.2	SPF
N - L	2x6	DRY	No.2	SPF
W-T	2x4	DRY	2100F 1.8E	SPF
T - Q	2x4	DRY	2100F 1.8E	SPF
Q - N	2x4	DRY	2100F 1.8E	SPF
ALL WEBS	2x4	DRY	No.2	SPF
EXCEPT				
V - D	2x3	DRY	No.2	SPF
D - U	2x3	DRY	No.2	SPF
U - E	2x3	DRY	No.2	SPF
P - 1	2x3	DRY	No.2	SPF
P - J	2x3	DRY	No.2	SPF
0 - J	2x3	DRY	No.2	SPF

DRY: SEASONED LUMBER.

JT	TYPE	PLATES	W	LEN	Y	X
В	TMVW-t	MT20	6.0	10.0	2.75	4.25
C	TS-t	MT20	5.0	6.0		
D,	E. G. I. J					
D	TMWW-t	MT20	4.0	5.0		
F	TTW+m	MT20	5.0	8.0	4.00	2.25
H	TTW+m	MT20	5.0	8.0	4.00	2.25
K	TS-t	MT20	5.0	6.0		
L	TMVW-t	MT20	6.0	10.0	2.75	4.25
N	BMV1-t	MT20	6.0	6.0	Edge	0.50
0	BMWW-t	MT20	6.0	8.0	2.75	2.75
P	BMWW-t	MT20	4.0	4.0		
Q	BS-t	MT20	8.0	10.0		
R	BMWWW-t	MT20	4.0	8.0	1.75	2.00
S	BMWWW-t	MT20	4.0	8.0	1.75	2.50
T	BS-t	MT20	8.0	10.0		
U	BMWW-t	MT20	4.0	4.0		
V	BMWW-t	MT20	6.0	8.0	2.75	2.75
W	BMV1-t	MT20	6.0	6.0	3.50	



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

PROVIDE ANCHORAGE AT BEARING JOINT W FOR 374 LBS FACTORED UPLIFT PROVIDE ANCHORAGE AT BEARING JOINT N FOR 374 LBS FACTORED UPLIFT

PROVIDE FOR 219 LBS FACTORED HORIZONTAL REACTION AT JOINT

UN		REACTIONS					
	1ST LCAS	E MAX	MIN. COMP	ONENT REACT	IONS		
JT	COMBINE	D SNOW	LIVE	PERM.LIVE	WIND	DEAD	SOIL
W	3337	2106/0	443/0	0/0	144 / -587	788 / 0	0/0
N	3337	2106/0	443 / 0	0/0	144 / -587	788 / 0	0/0
но	RIZONTAL F	REACTIONS					
w		0/0	0/0	0/0	156 / -156	0/0	0.70

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

BRACING
FOR SECTION F-H, MAX. UNBRACED TOP CHORD LENGTH = 2.00 FT.
FOR OTHER SECTIONS, MAX. UNBRACED TOP CHORD LENGTH = 2.92 FT.
MAX. UNBRACED BOTTOM CHORD LENGTH = 8.25 FT OR RIGID CEILING DIRECTLY APPLIED.

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

1 - 2x4 DRY SPF No.2 LATERAL BRACE(S) AT 1/2 LENGTH OF E-S, F-S, G-S, G-R, H-R, I-R; DBS = 20-0-0 . CBF =

DBS = DIAGONAL BRACE SPACING (MAX). CBF = CUMULATIVE BRACING FORCE (PER BRACE). FASTEN LATERAL BRACE(S) USING (0.122*X3") SPIRAL NALS: 1 NAIL FOR 2x3 BRACE(S), 2 FOR 1x4, 2x4, 2x5, 3 FOR 2x6, 4 FOR 2x46, 5 FOR 2x10, AND 6 FOR 2x12.

MAX CSI (LC)

0.15 (7)

0.16 (2)

0.26 (1) 0.63 (2) 0.26 (1) 0.81 (3) 0.16 (3)

0.82 (3)

0.15 (8) 0.92 (1)

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: (18)

СН	ORDS						BS
MAX	X. FACTORED	FACTO	DRED				MAX. FACT
MEMB.	FORCE	VERT. L	OAD L	C1 MAX	MAX.	MEME	FORCE
	(LBS)	(P	LF)	CSI (LC)	UNBRA	C	(LBS)
FR-TO	(LBS)	FROM	TO		LENGT	HFR-TC)
A-B	0 / 65	-165.5	-165.5	0.14(2)	10.00	V-D	-572 / 110
B-C	-6401 / 503	-165.5	-165.5	0.71 (2)	2.92	D-U	-818 / 173
C-D	-6401 / 503	-165.5	-165.5	0.71 (2)	2.92	U-E	-47 / 702
D-E	-5910 / 503	-165.5	-165.5	0.65 (2)	3.11	E-S	-1783 / 297
E-F	4892 / 449	-165.5	-165.5	0.57 (2)	3.47	S-F	-150 / 1625
	-4281 / 451	-178.0	-178.0	0.26(1)	2.00	S-G	-963 / 620
G-H	-4281 / 451	-178.0	-178.0	0.26 (1)	2.00	G-R	-963 / 620
H- I	4892 / 449	-165.5	-165.5	0.57 (3)	3.47	R-H	
I- J	-5910 / 503						
J- K	-6401 / 503	-165.5	-165.5	0.71 (3)	2.92	P-1	-47 / 702
K-L	-6401 / 503	-165.5	-165.5	0.71 (3)	2.92	P-J	-818 / 174
	0 / 65						
W-B	-4482 / 395	0.0	0.0	0.29 (1)	5.10	B-V	-354 / 5710
N- L	-4482 / 395	0.0	0.0	0.29 (1)	5.10	0- L	-355 / 5710
W-V	-209 / 214	-39.2	-39.2	0.18 (17	6.25		
V-U	-506 / 5661	-39.2	-39.2	0.52 (1)	6.25		
U-T	-364 / 5202	-39.2	-39.2	0.49 (1)	6.25		
T-S	-364 / 5202	-39.2	-39.2	0.49 (1)	6.25		
S-R	-157 / 4348	-39.2	-39.2	0.43 (1)	6.25		
R-Q	-200 / 5202	-39.2	-39.2	0.49 (1)	6.25		
Q-P	-200 / 5202	-39.2	-39.2	0.49 (1)	6.25		
P-0	-342 / 5661	-39.2	-39.2	0.52 (1)	6.25		
0- N	-5 / 10	-39.2	-39.2	0.18 (17) 10.00		



WIND LOAD APPLIED IS DERIVED FROM REFERENCE VELOCITY PRESSUI WIND LOAD APPLIED IS DERIVED FROM REPERENCE VELOCITY PRESSOR
REFERENCE HEIGHT ABOVE GRADE AND USING EXTERNAL PEAK COEF!
WIND FORCE RESISTING SYSTEM].INTERNAL WIND PRESSURE IS BASEL
BUILDING MAY BE LOCATED ON (ROUGH TERRAIN) AT MINIMUM (1.000), IN
TERRAIN., AND TRUSS IS DESIGNED TO BE LOCATED AT LEAST (0-0) FT-I
UPLIFT IS BASED ON TOP AND BOTTOM CHORD DEAD LOADS OF 5.0 PS

East Gwillimbury
Building Standards Branch BCIN #16487
building dunical da branch bolit #10407

These plans have been reviewed for use with the corrections as noted. No other changes may be made without written approval of the Building Standards Branch. All work must comply with Zoning By-Law 2018-045, as amerised, and the Ontario Building Code, as ameked. These approved documen building Code, as ameked. These approved documen building Code, as ameked. These approved documen to be kept on all the control of the contr

Discipline	Reviewer	BCIN	Date	J,
Building Code	H. Authier	43236	2021-02-08	ľ
Sewage System				
Zoning				

TOP CH. LL = 46.9
DL = 10.0
BOT CH. LL = 10.5
DL = 7.3
TOTAL LOAD = 74.8

SPACING = 24.0 IN. C/C

LOADING IN FLAT SECTION BASED ON PIGGYBACK TRUSS WITH SLOPES OF 6.00/12 AND -6.00/12 AND RESPECTIVE HEEL HEIGHTS OF 0-0 AND 0-0 AND AN ADDITIONAL DEAD LOAD OF 5.0 P.S.F.

THIS TRUSS IS DESIGNED FOR COMMERCIAL OR INDUSTRIAL BUILDING REQUIREMENTS OF PART 4, NBCC 2015

THIS DESIGN COMPLIES WITH:
-PART 4 OF BCBC 2018, ABC 2019
-PART 4 OF OBC 2012 (2019 AMENDMENT)
- CSA 086-14

DESIGN ASSUMPTIONS - SLOPE REDUCTION FACTOR NOT USED

(80 % OF 48 1 P.S.F. G.S.L. PLUS 8.4 P.S.F. RAIN LOAD) TIMES IMPORTANCE FACTOR EQUALS 46.9 P.S.F SPECIFIED ROOF LIVE LOAD

ALLOWABLE DEFL.(LL)= L/360 (1.41*)
CALCULATED VERT. DEFL.(LL)= L/999 (0.24*)
ALLOWABLE DEFL.(TL)= L/180 (2.81*)
CALCULATED VERT. DEFL.(TL)= L/999 (0.35*)

CSI: TC=0.71/1.00 (J-L:3), BC=0.52/1.00 (O-P:1), WB=0.92/1.00 (L-O:1), SSI=0.37/1.00 (J-L:3)

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

SNOW LOAD IMPORTANCE FACTOR = 1.00 WIND LOAD IMPORTANCE FACTOR = 1.00 LIVE LOAD IMPORTANCE FACTOR = 1.00 COMPANION LIVE LOAD FACTOR = 1.00

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

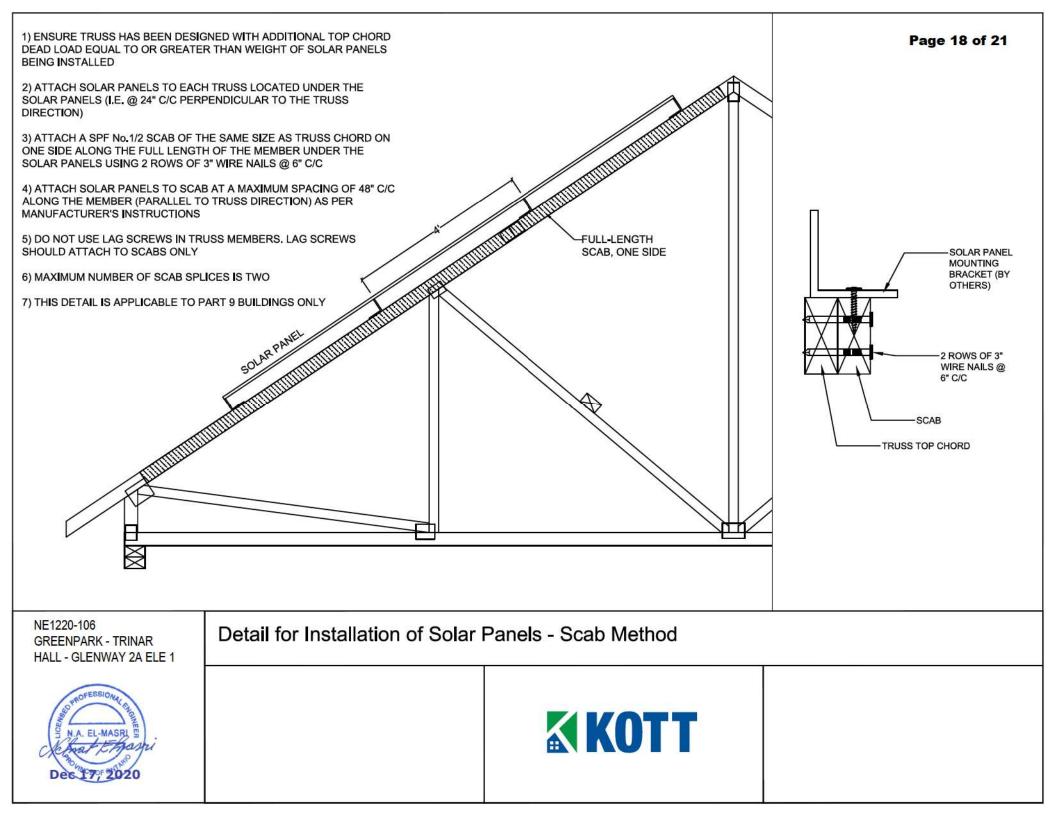
NAIL VALUES
PLATE GRIP(DRY) SHEAR SECTION
(PSI) (PLI) (PLI)
MAX MIN MAX MIN MAX MIN MT20 650 371 1747 788 1987 1873

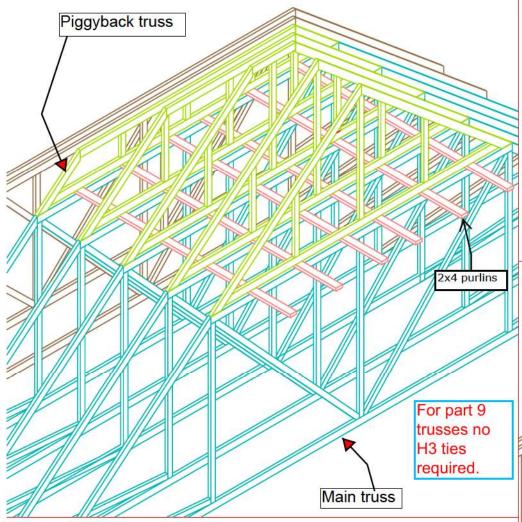
PLATE PLACEMENT TOL. = 0.250 inche

PLATE ROTATION TOL. = 5.0 Deg.

JSI GRIP= 0.88 (B) (INPUT = 0.90) JSI METAL= 0.97 (V) (INPUT = 1.00)







For drag trusses:

Piggyback trusses attached directly on top of the flat or sloped roof trusses using LTP4 plates on alternating sides with spacing as per truss drawing.

2x4 blocking between top chords of main roof trusses must be placed @ 24" C/C and attached to the intersecting top chord member using (2) 3-1/4" common wire nails at each end

Piggyback truss 2x4 blocking Main truss

For standard trusses:

Piggyback trusses framed on top of 2x4 purlins placed @ 24" C/C. Each 2x4 purlin must be fixed to the top edge of the top chord of each main truss using (2) 3-1/4" common wire nails and (1) H3 tie at each end. Each piggyback toe-nailed to each purlin using (2) 3-1/4" common wire nails and attached to every second purlin with one H3 tie.



PIGGYBACK TRUSS FRAMING DETAIL



NE1220-106 GREENPARK - TRINAR HALL - GLENWAY 2A ELE 1 NE1220-106 **GREENPARK - TRINAR** HALL - GLENWAY 2A ELE 1

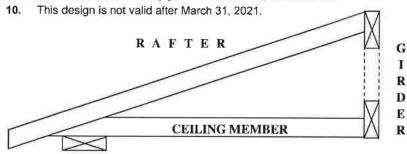
BEARING ANCHORAGE BY TOE-NAILS FOR LATERAL CAPACITY

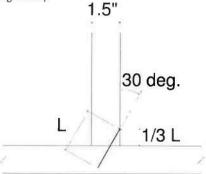
B97791H1

NAIL TYPE	LENGTH (IN)	DIAMETER (IN)	NAIL LATERAL CAPACITY (LB)	
			S-P-F	D. FIR
COMMON	3.00	0.144	132	147
WIRE	3.25	0.144	132	147
	3.50	0.160	159	177
COMMON	3.00	0.122	97	108
SPIRAL	3.25	0.122	97	108
	3.50	0.152	145	162

NOTES:

- 1. Rafter and ceiling members may be anchored to top and bottom chords of girder truss by toe-nailing rafter and ceiling members to girder chords provided the reaction does not exceed the lateral capacities in the table. Hangers (specified by others) are required for reactions higher than the maximum toe-nail capacity. Reactions are based on factored loads.
- 2. Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor JA in CSA O86-14, section 12.9.4.1.
- 3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in tables below.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42 (SPF), G = 0.49 (D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See next page for nailing on bearing plate).
- 7. For loads due to wind the nail lateral capacity in this table may be multiplied by 1.15 (Kp factor).
- 8. Lumber must be dry (< 19% moisture content) at the time of nail installation.
- 9. Nail values in this table comply with CSA O86-14, section 12.9.4





TOE-NAIL INSTALLATION

PEO Certificate No. 10889485

PROFESSIONAL

Cordogiannis 90553736

Nail type	Common wire	Common spiral	Common wire	Common spiral
Nail dia. (in)	0.160	0.152	0.144	0.122
	(3.5" nail)		(3" and 3.25" nail)	
LUMBER SIZE	N	AXIMUM NUMB	ER OF TOE-NA	ILS
2X4 SPF	2	2	3	3
2X4 D. Fir	2	2	2	2
2X6 SPF	4	4	4	5
2X6 D. Fir	3	3	3	4

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

East Gwillimbury

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December

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Reviewer	BCIN	Date
H. Authier	43236	2021-02-08

NE1220-106 GREENPARK - TRINAR HALL - GLENWAY 2A ELE 1

BEARING ANCHORAGE BY TOE-NAILS FOR WIND LOADING

B97791H2

NAIL TYPE	LENGTH	DIAMETER	NAIL WITHDRAWAL CAPACITY (LB)		
	(IN)	(IN)	S-P-F	D. FIR	Note: If using truss with
COMMON	3.00	0.144	30	42	D. Fir lumber and S-P-F bearing plate, use values in table for S-P-F.
WIRE	3.25	0.144	32	45	
	3.50	0.160	38	52	
COMMON	3.00	0.122	26	36	
SPIRAL	3.25	0.122	28	40	
	3.50	0.152	36	50	1

NOTES:

- 1. Truss chord, rafter, or ceiling members may be anchored to bearing plate by toe-nails, provided that the actual factored uplift force due to wind or earthquake load does not exceed the withdrawal capacities in the table. Hangers (specified by others) are required for uplift forces that are higher than the maximum toe-nail withdrawal capacity.
- Toe nail capacities shown in the table are for one toe-nail. For additional toe-nails multiply values in table by the number of toe-nails used. Toe-nail capacities take into account toe-nailing factor J_A in CSA O86-14, section 12.9.5.2.
- 3. For 9-3/4 gauge 3.25" common wire gun nails (diameter = 0.120") use 3" common spiral nail values.
- 4. Maximum number of toe-nails allowed depends on the lumber size & species to be toe-nailed to supporting member and nail diameter, as shown in table above.
- 5. Nail values in table are based on the following relative lumber densities: G = 0.42(SPF), G = 0.49(D. Fir).
- 6. Toe-nails shall be driven at approximately 1/3 the nail length from the edge of the joist/truss chord and driven at an angle of 30° to the grain of the member (See drawing on detail B37579H1).
- 7. Lumber must be dry (< 19% moisture content) at the time of nail installation.
- 8. Nail values in this table comply with CSA O86-14, section 12.9.5
- 9. This design is not valid after March 31, 2021.

