

		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	10
J3	18-00-00	11 7/8" NI-40x	1	19
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	10-00-00	11 7/8" NI-40x	1	3
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B6 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1 🗸	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 🗂	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4 /	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
21	H1	IUS2.56/11.88			
6	H1	IUS2.56/11.88			
8	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
2	H3	HU312-2			
3	H3	IUS3.56/11.88			
1	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ REVISION:

DATE: 2021-09-27

1st FLOOR

NON SUNKEN

DATE LOOP V

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS I AND THE TORKED BY BUILDING DESIGNED AND APE TO BE THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY
HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE
MANUFACTURER'S PRODUCT LITERATURE PRODUCT LITERATURE
MANUFACTURER'S PRODUCT LITERATURE PRODU WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17880-THROUGH DWG# TAM 1788501, INCLUSIVE DATED 8747

SEALED STRUCTURAL COMPONENTS ONLY:

SEALED, THIRD PARTY LVIL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEPPROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

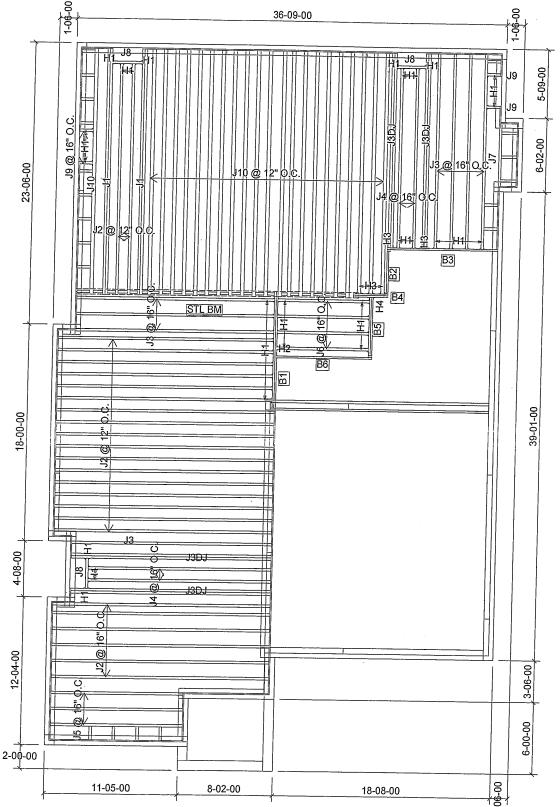
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST BLOCKING TO BE 1/160 DEEPER THAN JOIST ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16 DEEPER THAN JOIST DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

21542-21 BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL





		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	25
J3	18-00-00	11 7/8" NI-40x	1	8
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	12-00-00	11 7/8" NI-40x	1	3
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B3~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 🖍	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 -	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

Г	Connector Summary					
-	Otre					
_	Qty	Manuf	Product			
	6	H1	IUS2.56/11.88			
	17	H1	IUS2.56/11.88			
1	6	H1	IUS2.56/11.88			
{	3	H1	IUS2.56/11.88			
2	2	H1	IUS2.56/11.88			
'	1	H2	HUS1.81/10			
2	2	НЗ	HU312-2			
3	3	НЗ	IUS3.56/11.88			
		H4	HGUS410			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504 FLANKAGE COR

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-09-27

1st FLOOR

NON SUNKEN

1004 1

SUBFLOOR: 3/4" GLUED AND NAILED

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

DEAD LOAD: 20.0 lb/ff²

SNOW LOAD: 24.0 lb/ft2

BCIN: 26064; FIRM: 29991

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

BEOMETRIS OFFICE DEFICE OF THE SAME DESIGNER ADDRESSED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SUPPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 178874 INCLUSIVE DATED 844-24

SEALED STRUCTURAL COMPONENTS ONLY: + 129041

SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

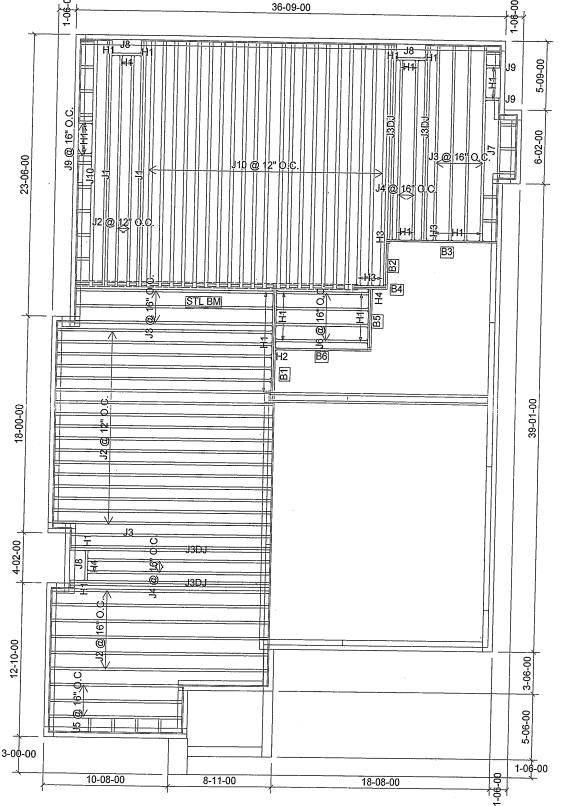
I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM OF ESSION REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 SEALED STRUCTURAL

COMPONENTS ONLY





		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	25
J3	18-00-00	11 7/8" NI-40x	1	8
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5 ·	12-00-00	11 7/8" NI-40x	1	3
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B3~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6 🖍	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1′	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5/	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 -	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4 /	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary					
Qty	Manuf	Product				
6	H1	IUS2.56/11.88				
17	H1	IUS2.56/11.88				
6	H1	IUS2.56/11.88				
8	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
2	H3	HU312-2				
3	НЗ	IUS3.56/11.88				
1	H4	HGUS410				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ff² SNOW LOAD: 24.0 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH **MODEL:** 4504 FLANKAGE COR

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-09-27

1st FLOOR

NON SUNKEN

100901

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION. MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL. INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY, CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 178801 THROUGH DWG# TAM 178844 INCLUSIVE DATED 8142

SEALED STRUCTURAL COMPONENTS ONLY: +1790+2

SEALED STRUCTURAL COMPONENTS ONLY: +1790+2

SEALED, THIRD PARTY LVIL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 x 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

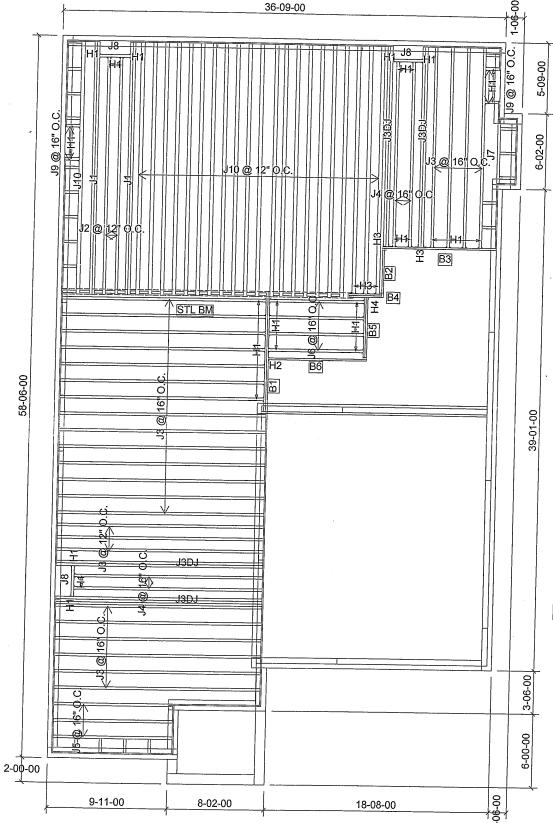
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALLS QUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM OF ESSION REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM SEALED STRUCTURAL COMPONENTS ONLY





		Products		
PlotID	Length	Product		
J1			Plies	Net Qty
1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	2
J3	18-00-00	11 7/8" NI-40x	1	27
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	10-00-00	11 7/8" NI-40x	1	3
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	. 1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B3 🗸	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6/	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 ~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2′	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary					
Qty	Manuf	Product				
6	H1	IUS2.56/11.88				
15	H1	IUS2.56/11.88				
6	H1	IUS2.56/11.88				
8	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
2	H3	HU312-2				
3	H3	IUS3.56/11.88				
1	H4	HGUS410				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS, SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

VALES OF HUMBER NORTH MODEL: 4504 **ELEVATION:** A,B

2021/06

BUILDER:

LOT:

SITE:

CITY: BRAMPTON

FROM PLAN DATED:

ROYAL PINE HOMES

SALESMAN: RICK DICIANO

LUMBER INC

ALPA LUMBER GROUP

DESIGNER: AJ **REVISION:**

DATE: 2021-09-27

1st FLOOR

NON SUNKEN

10044

SNOW LOAD: 24.0 lb/ft2

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

BCIN: 26064; FIRM: 29991

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE DOLLAR BEAUTION OF THE SEAL THE MODEL OF THE SEAL THE SEAL THE SEAL THE SEAL THE MODEL OF THE SEAL THE MORE OR LESS DAS PER PLAN WORKO DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE BRIOD TO BUILDING DEDMIT ADDROVAL

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL. INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 178804HROUGH DWG# TAM 178844 INCLUSIVE DATED 81414

SEALED STRUCTURAL COMPONENTS ONLY:

SEALED, THIRD PARTY LVIL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I-JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

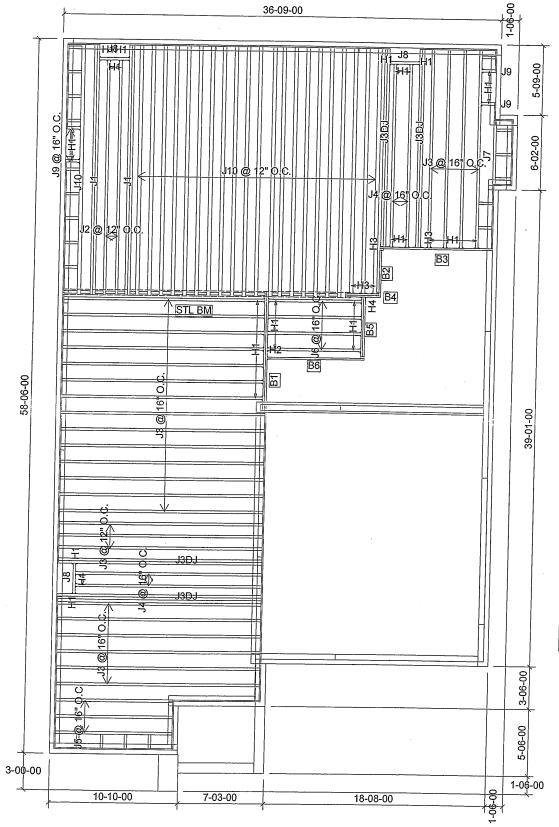
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALLS QUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM SECSION REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM 26064 FIRM: 29991 SEALED STRUCTURAL

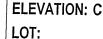




		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	2
J3	18-00-00	11 7/8" NI-40x	1	27
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	10-00-00	11 7/8" NI-40x	1	3
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B3 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 ~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
6	H1	IUS2.56/11.88			
15	H1	IUS2.56/11.88			
6	H1	IUS2.56/11.88			
8	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
2	H3	HU312-2			
3	НЗ	IUS3.56/11.88			
1	H4	HGUS410			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



MODEL: 4504

2021/06

BUILDER:

CITY: BRAMPTON

FROM PLAN DATED:

ROYAL PINE HOMES

VALES OF HUMBER NORTH

SALESMAN: RICK DICIANO

LUMBER INC

ALPA LUMBER GROUP

DESIGNER: AJ **REVISION:**

DATE: 2021-09-27

1st FLOOR

NON SUNKEN

100411

DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

SNOW LOAD: 24.0 lb/ft²

LOADING:

BCIN: 26064; FIRM: 29991

ENGINE 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

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INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17880 THROUGH DWG# TAM 178894, INCLUSIVE DATED STYLE

SEALED STRUCTURAL COMPONENTS ONLY: 1790-1

SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PER PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION SEE NORDIC LITERATURE.

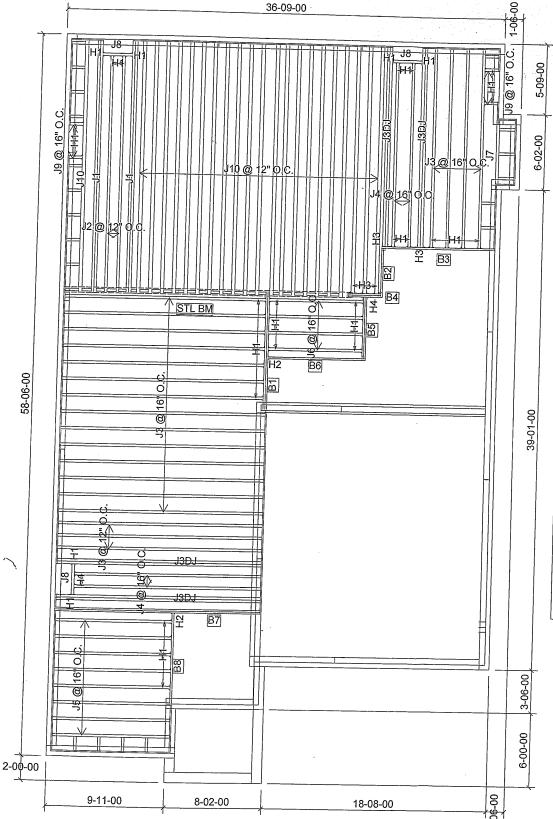
AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16G DEEPER THAN JOIST AND ADDRESS OF THE PROPERTY OF THE PROPERT DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE, TAM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM SEALED STRUCTURAL





		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	2
J3	18-00-00	11 7/8" NI-40x	1	21
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	10-00-00	11 7/8" NI-40x	1	. 8
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B7 🗸	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 <	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6/	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1 💆	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B5 🗸	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2/	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary					
Qty	Manuf	Product				
11	H1	IUS2.56/11.88				
15	H1	IUS2.56/11.88				
6	H1	IUS2.56/11.88				
8	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
2	H2	HUS1.81/10				
2	H3	HU312-2				
3	H3	IUS3.56/11.88				
1	H4	HGUS410				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: A.B.

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

SUBFLOOR: 3/4" GLUED AND NAILED

DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ff²

SNOW LOAD: 24.0 lb/ft2

LOADING:

9014

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY CONFINATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

SEALED STRUCTURAL COMPONENTS ONLY: 4 TOGGY 4 1 7905-2

SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HADDERS, AND CONCENTRATED LOADED NORDIG WOOD-J JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

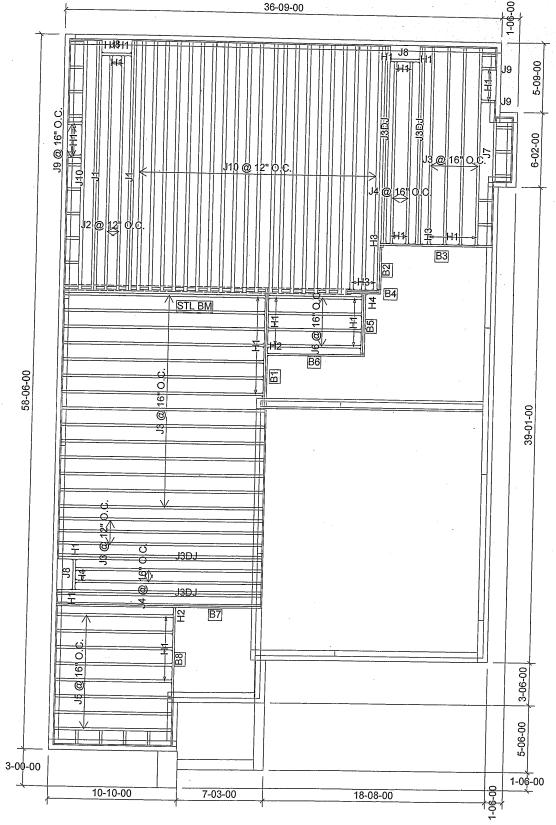
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I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

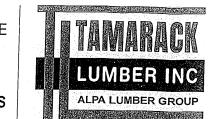
DWG # TAM 26064 FIRM: SEALED STRUCTURAL



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	2
J3 .	18-00-00	11 7/8" NI-40x	1	21
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	10-00-00	11 7/8" NI-40x	1	8
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B7 🗂	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 🖊	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	<u> </u>
B5 ″	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 🗖	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	4
B4 🖊	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	1
		. 6.1 X 11 776 VEROA-LANIE 2.0 3100 3P		2

ĺ	Connector Summary					
	Qty	Manuf	Product			
j	11	H1	IUS2.56/11.88			
Ì	15	H1	IUS2.56/11.88			
1	6	H1	IUS2.56/11.88			
1	8	H1	IUS2.56/11.88			
ł	2	H1	IUS2.56/11.88			
	2	H2	HUS1.81/10			
1	2	НЗ	HU312-2			
	3	НЗ	IUS3.56/11.88			
	1	H4	HGUS410			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS, FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

SUBFLOOR: 3/4" GLUED AND NAILED

SNOW LOAD: 24.0 lb/ft2

DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ff²

LOADING:

9001 BCIN: 26064: FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO ORTAIN 10T SPECIFIC SCHEDULE 1 FORM

CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
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DWG# TAM 17880 THROUGH DWG# TAM 178854, INCLUSIVE DATED

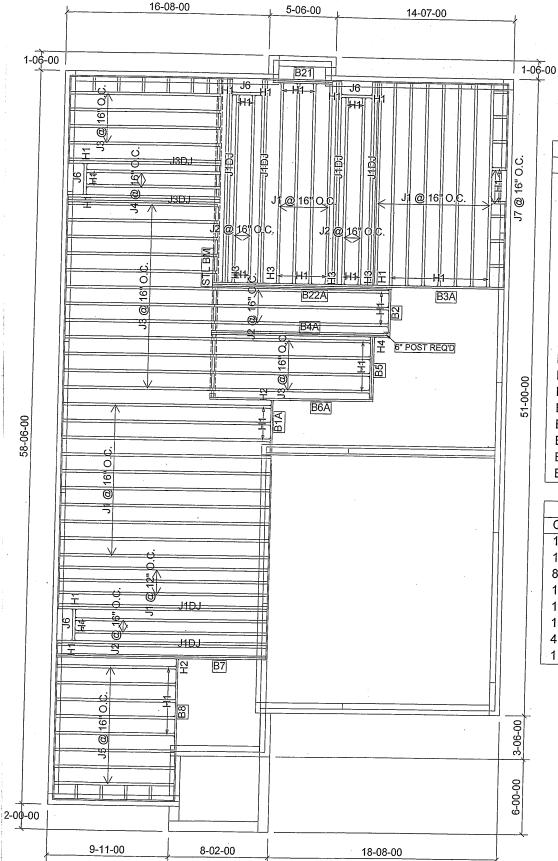
SEALED STRUCTURAL COMPONENTS ONLY: 1790421 \$17905-24
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-1 JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
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I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	25
J1DJ	18-00-00	11 7/8" NI-40x	2	12
J2	16-00-00	11 7/8" NI-40x	1	9
J3	14-00-00	11 7/8" NI-40x	1	20
J3DJ	14-00-00	11 7/8" NI-40x	2	4
J4	12-00-00	11 7/8" NI-40x	1	2
J5	10-00-00	11 7/8" NI-40x	1	8
J6	4-00-00	11 7/8" NI-40x	1	4
J7	2-00-00	11 7/8" NI-40x	1	2
B7	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B22A 🖊	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4A	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6A 🖊	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B3A-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B8	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1A	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B21	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 🕌	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 🖊	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary					
Qty	Manuf	Product				
18	H1	IUS2.56/11.88				
16	H1	IUS2.56/11.88				
8	H1	IUS2.56/11.88				
10	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
1	H2	HUS1.81/10				
4	H3	HU312-2				
- 1	H4	HGUS410				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

LOADING: DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft2 SNOW LOAD: 24.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

ALPA LUMBER GROUP

FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: A.B.C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

OPTION

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING FINGINGER OF THIS FLOOR SYSTEM ADE NOT DESCRIBED E FOR PROCEEDING. THE SUPPLIER AND SEALING FINGINGER OF THIS FLOOR SYSTEM ADE NOT DESCRIBED E FOR PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17898 THROUGH DWG# TAM 17901-24, INCLUSIVE DATED_ SEALED STRUCTURAL COMPONENTS ONLY: + 17905-2/ +17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4-17905-4

LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEPPROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

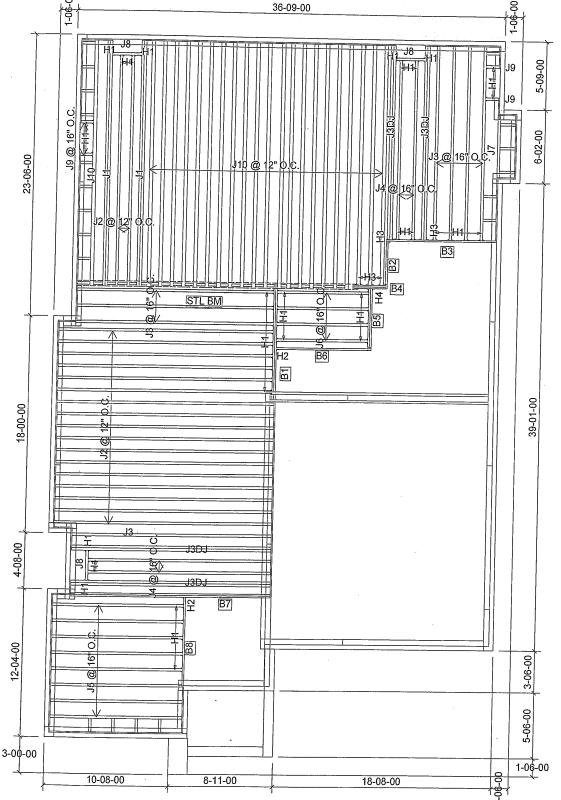
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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY





		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	19
J3	18-00-00	11 7/8" NI-40x	1	8 .
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	12-00-00	11 7/8" NI-40x	1	8
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B7 ☞	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 "	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 -	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B5~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 ~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	. - 1
B4~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connecto	or Summary
Qty	Manuf	Product
11	H1	IUS2.56/11.88
17	H1	IUS2.56/11.88
6	H1	IUS2.56/11.88
8	H1	IUS2.56/11.88
2	H1	IUS2.56/11.88
2	H2	HUS1.81/10
2	H3	HU312-2
3	Н3	IUS3.56/11.88
1	H4	HGUS410

NOIES:

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

FROM PLAN DATED:
2021/06

T BUILDER:
ROYAL PINE HOMES
SITE:

VALES OF HUMBER NORTH
MODEL: 4504 FLANKAGE COR

LUMBERING

ALPA LUMBER GROUP

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ REVISION:

DATE: 2021-08-31

1st FLOOR

DATE 9012

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED

LOADING:

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

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DWG# TAM 178902 THROUGH DWG# TAM 178852/, INCLUSIVE DATED STYN

SEALED STRUCTURAL COMPONENTS ONLY: 3 17904-21 + 17905-21
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE MOSPIC PLAN FOR THE SECOND TO SEE THE MOSPIC PLAN FOR THE SECOND TO SECOND TO SECOND THE SECOND TO SECOND THE SECOND TO SECOND THE SECOND TO SECOND THE SECOND T

PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

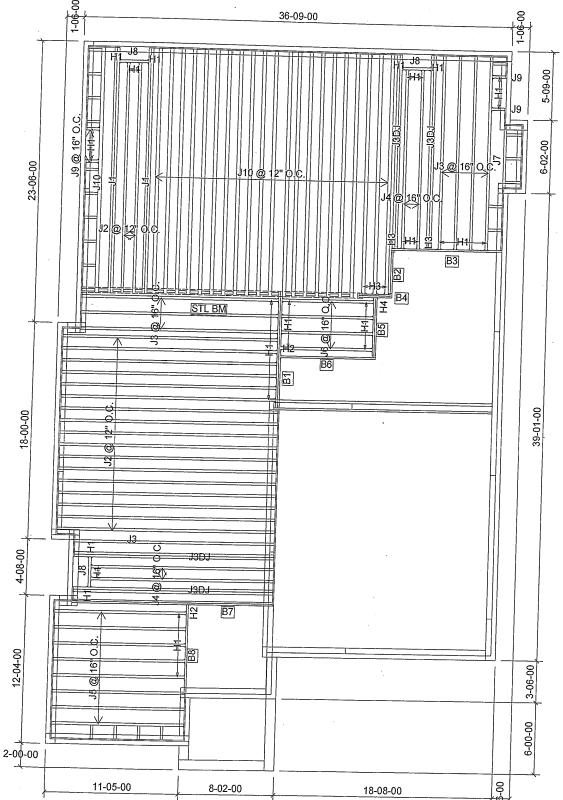
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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY

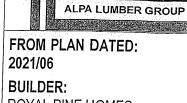




		Products		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	4
J2	20-00-00	11 7/8" NI-40x	1	19
J3	18-00-00	11 7/8" NI-40x	. 1	8
J3DJ	18-00-00	11 7/8" NI-40x	2	8
J4	16-00-00	11 7/8" NI-40x	1	4
J5	12-00-00	11 7/8" NI-40x	1	8
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B7 🗂	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B6-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	4
B5 -	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	1
B2 ~	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2 1	2
B4 🖊	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	•	1
		1 3/2 X 11-1/0 VLINGA-LAIVIE 2.0 3100 SP	2	2

	r					
	Connector Summary					
	Qty	Manuf	Product			
	11	H1	IUS2.56/11.88			
	17	H1	IUS2.56/11.88			
	6	H1	IUS2.56/11.88			
	8	H1	IUS2.56/11.88			
	2	H1	IUS2.56/11.88			
	2	H2	HUS1.81/10			
	2	H3	HU312-2			
l	3	H3	IUS3.56/11.88			
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ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH **MODEL:** 4504 FLANKAGE COR

LUMBER INC

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ff² SNOW LOAD: 24.0 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED

90101 BCIN: 26064: FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

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DWG# TAM 17890 THROUGH DWG# TAM 17885 YINCLUSIVE DATED

SEALED STRUCTURAL COMPONENTS ONLY: 4 17904-21 + 1705-21
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS, WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
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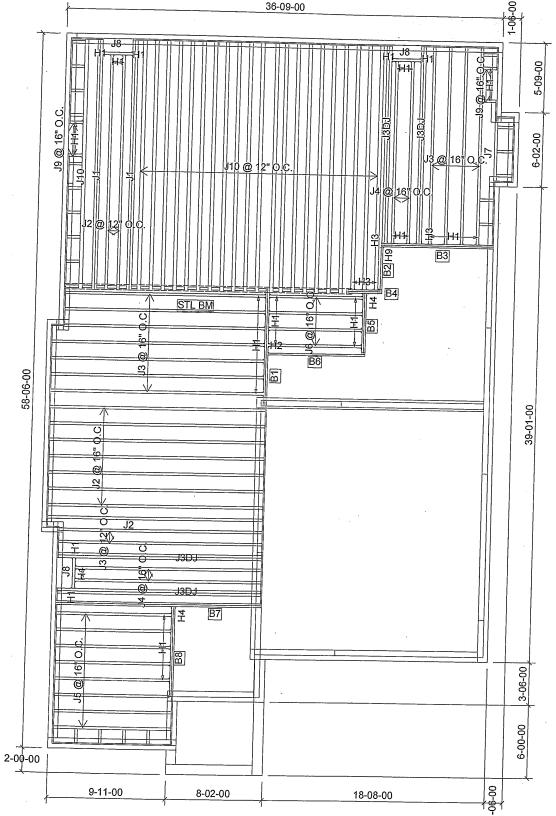
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DWG # TAM FIRM: 29991 SEALED STRUCTURAL





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J5	10-00-00	11 7/8" NI-40x	1	8 -
J6	8-00-00	11 7/8" NI-40x	1	4
J7	6-00-00	11 7/8" NI-40x	1	1
J8	4-00-00	11 7/8" NI-40x	1	3
J9	2-00-00	11 7/8" NI-40x	1	4
J10	22-00-00	11 7/8" NI-80	1	22
B7-	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 7	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1.	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B3.~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B8 ~ ∕	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 🖊	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B4	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
	Qty	Manuf	Product		
	26	H1	IUS2.56/11.88		
1	6	H1	IUS2.56/11.88		
-	8	H1	IUS2.56/11.88		
1	2	H1	IUS2.56/11.88		
	1	H2	HUS1.81/10		
1	2	H3	HU312-2		
	3	H3	IUS3.56/11.88		
1	2	H4	HGUS410		
L	1	H9	LS90		

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT | BUILDER: ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

LIVE LOAD: 40.0 lb/ft2

LOADING:

DEAD LOAD: 20.0 lb/ff2

SNOW LOAD: 24.0 lb/ft2

DESIGN LOADS: L/480.000

SUBFLOOR: 3/4" GLUED AND NAILED

90121 BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL. INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17862 THROUGH DWG# TAM 178852 INCLUSIVE DATED 8744

SEALED STRUCTURAL COMPONENTS ONLY: \$\frac{1760-117905-2}{1000-117905-2}\$

SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEPPROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

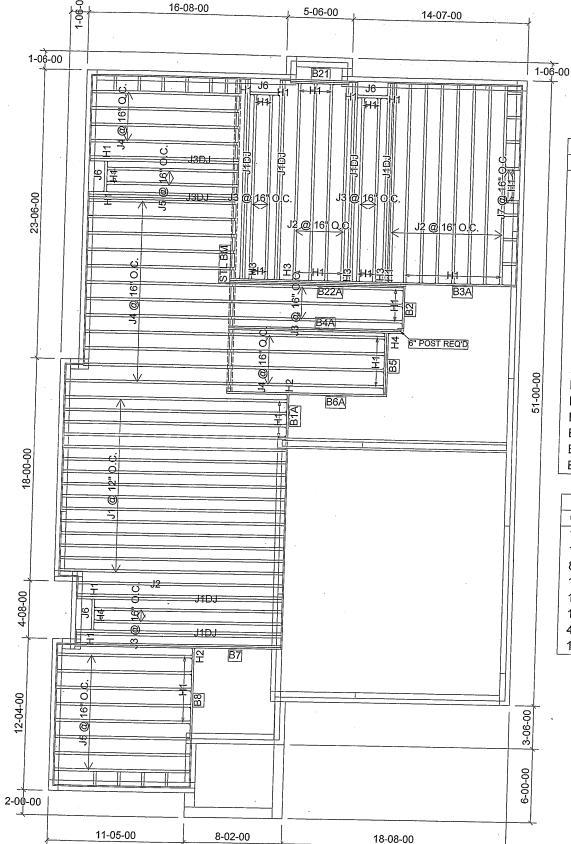
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM OF A STATE OF A FIRM OF A FIRM

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM 29991 SEALED STRUCTURAL





				
		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	15
J2	18-00-00	11 7/8" NI-40x	· 1	13
J1DJ	18-00-00	11 7/8" NI-40x	2	12
J3	16-00-00	11 7/8" NI-40x	1	9
J4	14-00-00	11 7/8" NI-40x	1	20
J3DJ	14-00-00	11 7/8" NI-40x	2	4
J5	12-00-00	11 7/8" NI-40x	1	1 0
J6	4-00-00	11 7/8" NI-40x	1	4
J7	2-00-00	11 7/8" NI-40x	1	2
B7 ~	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B22A -	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4A~	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6A 🗖	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B3A 🗖	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B8 🗖	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1A 🗖	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B21	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	1
B5 ~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 -	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	_	2
		2.0 3 100 SP	1	1

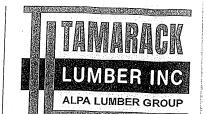
Connecte	or Summary
y Manuf	Product
H1	IUS2.56/11.88
H2	HUS1.81/10
H2	HUS1.81/10
H3	HU312-2
H4	HGUS410
	y Manuf H1 H1 H1 H1 H2 H2 H3

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: A.I **REVISION:**

DATE: 2021-08-31

1st FLOOR

OPTION

90121

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKI DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT, ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND ARE TO BE RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 1789824HROUGH DWG# TAM 17901-47, INCLUSIVE DATED 8747

SEALED STRUCTURAL COMPONENTS ONLY: 11765-21 + 17663-21

LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PER PROJECT ENGINEERS SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

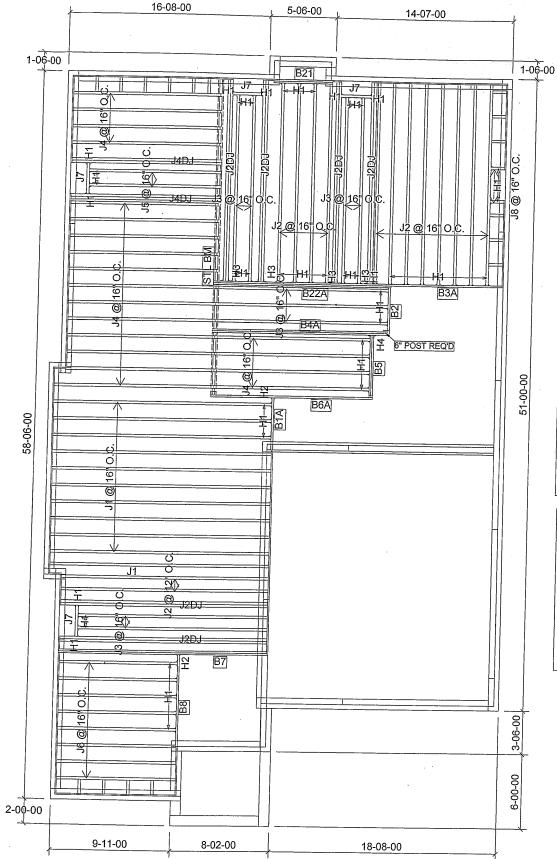
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS, INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

95962 DWG # TAM BCIN: FIRM: 26064 29991 SEALED STRUCTURAL





				1000
B: (15		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	11
J2	18-00-00	11 7/8" NI-40x	1	14
J2DJ	18-00-00	11 7/8" NI-40x	2	12
J3	16-00-00	11 7/8" NI-40x	1	9
J4	14-00-00	11 7/8" NI-40x	1	20
J4DJ	14-00-00	11 7/8" NI-40x	2	4
J5	12-00-00	11 7/8" NI-40x	1	2
J6	10-00-00	11 7/8" NI-40x	1	8
J7	4-00-00	11 7/8" NI-40x	1	4
J8	2-00-00	11 7/8" NI-40x	1	2
B7 🚾	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B22A ื	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4A 🚿	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6A -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B3A 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B8 🖊	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1A	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B21	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B5 ~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2 /	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary					
	Qty	Manuf	Product			
	18	H1	IUS2.56/11.88			
	16	H1	IUS2.56/11.88			
	8	H1	IUS2.56/11.88			
Ì	10	H1	IUS2.56/11.88			
	1	H2	HUS1.81/10			
1	1	H2	HUS1.81/10			
-	4	H3	HU312-2			
	1	H4	HGUS410			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD **CUT OPENINGS** SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

MODEL: 4504 FLANKAGE COR **ELEVATION:** A

2021/06

BUILDER:

SITE:

LOT:

CITY: BRAMPTON

FROM PLAN DATED:

ROYAL PINE HOMES

VALES OF HUMBER NORTH

SALESMAN: RICK DICIANO **DESIGNER:** AJ **REVISION:**

LUMBER INC

ALPA LUMBER GROUP

DATE: 2021-08-31

1st FLOOR

OPTION

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft2 SNOW LOAD: 24.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

9014

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SIBMISSION CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

WUNICIPALITY HAVING JURISDIC IION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORW
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY
HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE
WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ WHICH WILL ALD IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO KEAD ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17898 THROUGH DWG# TAM 17901-7 , INCLUSIVE DATED 8747

SEALED STRUCTURAL COMPONENTS ONLY: † 179052/1190824-17881-25-47882-2-1
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION
REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED
DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GRIDER TRUSSES, HEADERS,
AND BEAMS DOWN TO FOUNDATION COMPONENTS, FOR PROPER INSTALLATION SEE MORPING LITERATURE

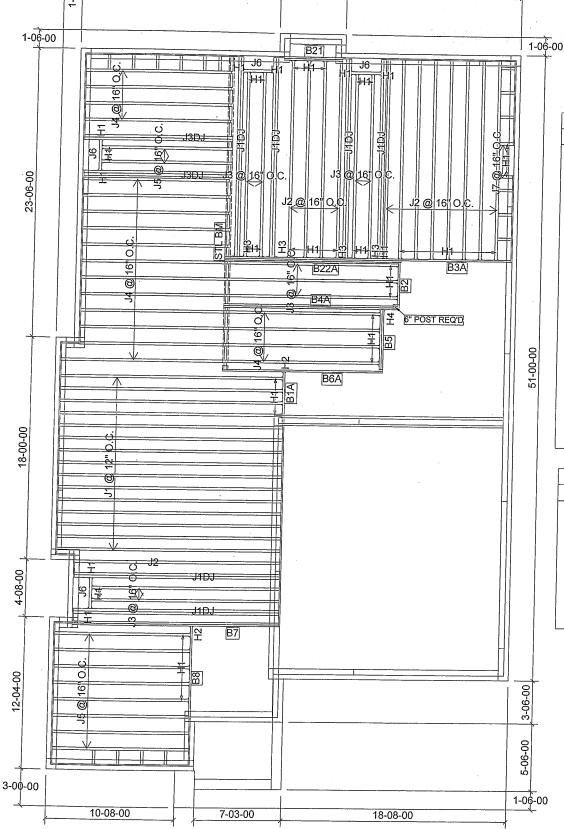
DOCUMENT. INSTALL SQUASH BLUCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 SEALED STRUCTURAL





5-06-00

14-07-00

16-08-00

		Products	·	
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	15
J2	18-00-00	11 7/8" NI-40x	1	13
J1DJ	18-00-00	11 7/8" NI-40x	2	12
J3	16-00-00	11 7/8" NI-40x	1	9
J4	14-00-00	11 7/8" NI-40x	1	20
J3DJ	14-00-00	11 7/8" NI-40x	2	4
J5	12-00-00	11 7/8" NI-40x	1	10
J6	4-00-00	11 7/8" NI-40x	1	4
J7	2-00-00	11 7/8" NI-40x	1	2
B7 ~	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B22A ~	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4A	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6A	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B3A	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B8 🗂	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B1A~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B21	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2 .
B5 ~	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B2	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary					
Qty	Manuf	Product				
19	H1	IUS2.56/11.88				
16	H1	IUS2.56/11.88				
8	H1	IUS2.56/11.88				
10	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
1	H2	HUS1.81/10				
4	H3	HU312-2				
1	H4	HGUS410				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD **CUT OPENINGS** SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.

ALPA LUMBER GROUP FROM PLAN DATED: 2021/06 BUILDER: ROYAL PINE HOMES SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

LUMBERING

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

1st FLOOR

OPTION

BCIN: 26064; FIRM: 29991

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft2

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAMING) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKED DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FASRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY
HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17898 THROUGH DWG# TAM 1790/1/ INCLUSIVE DATED STYN SEALED STRUCTURAL COMPONENTS ONLY: +17905-21+17908-21+17881-21

SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED

PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/1611 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

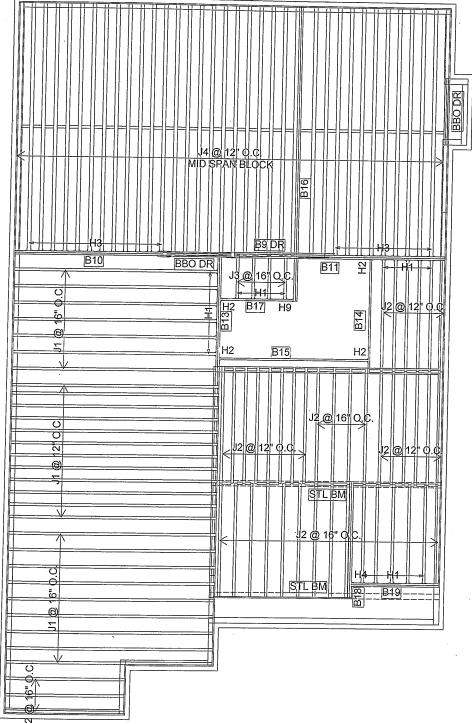
I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC

9601-2 DWG # TAM BCIN: 26064 FIRM: 29991

SEALED STRUCTURAL COMPONENTS ONLY



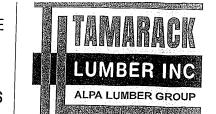


		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	28
J2	10-00-00	11 7/8" NI-40x	1	42
J3	4-00-00	11 7/8" NI-40x	1	4
J4	22-00-00	11 7/8" NI-80	1	36
B9 DR [°]	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16 ~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13/	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17⁄	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary						
Qty	Manuf	Product					
4	H1	IUS2.56/11.88					
16	H1	IUS2.56/11.88					
1	H2	HUS1.81/10					
3	H2 -	HUS1.81/10					
21	H3	IUS3.56/11.88					
1	H4	HGUS410					
1	H9	LS90					

NOIES:

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT | BUILDER: ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7. TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

SNOW LOAD: 24.0 lb/ft²

BCIN: 26064; FIRM: 29991

LOADING:

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MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

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DWG# TAM 17886 THROUGH DWG# TAM 178937 , INCLUSIVE DATED 8747

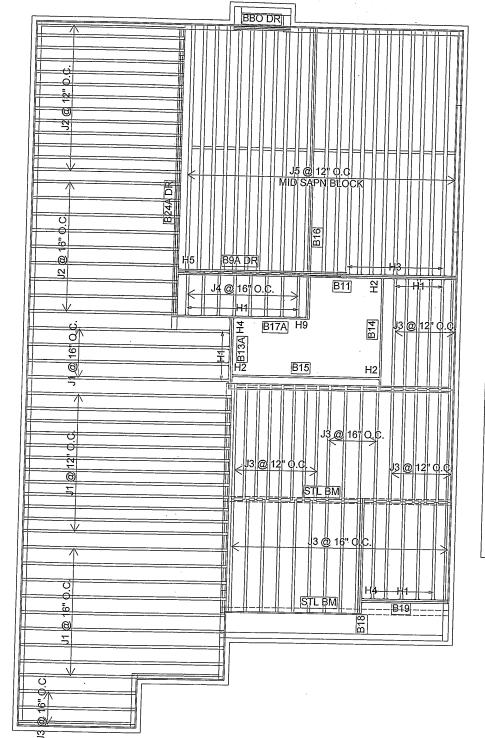
SEALED STRUCTURAL COMPONENTS ONLY: \$\frac{17906-1}{17906-1}\$ | \$17907-2\$ |
SEALED STRUCTURAL COMPONENTS ONLY: \$\frac{17906-1}{17906-1}\$ | \$17907-2\$ |
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 x 6 SQUASH BLOCK REQUIRED AT ALL STERIOR SUPPORTS OR AS PET-PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
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I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

19602-21 DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY

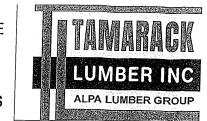
9014



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	25
J2	14-00-00	11 7/8" NI-40x	1	22
J3	10-00-00	11 7/8" NI-40x	1	42
J4	4-00-00	11 7/8" NI-40x	1	8
J5	22-00-00	11 7/8" NI-80	1	23
B16 🗂	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B9A DR	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B17A -	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B14 /	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11 —	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13A 🖊	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B24A DR -	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	3	3

Connector Summary					
Qty	Manuf	Product			
8	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
2	H2	HUS1.81/10			
9	НЗ	IUS3.56/11.88			
1	H4	HGUS410			
1	H4	HGUS410			
1 -	H5	HGUS5.5/11.88			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7. TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

DESIGN LOADS: L/480,000

SUBFLOOR: 5/8" GLUED AND NAILED

LIVE LOAD: 40.0 lb/ft²

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ff²

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKI DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

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DWG# TAM 17873-1 THROUGH DWG# TAM 178974, INCLUSIVE DATED_ SEALED STRUCTURAL COMPONENTS ONLY: +179064+179074+178804+178904+17897
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-1 JOIST ONLY: 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. MER EN LED REPURPORTS THE PROJECT ENGINEER'S SPECIFICATIONS. PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED

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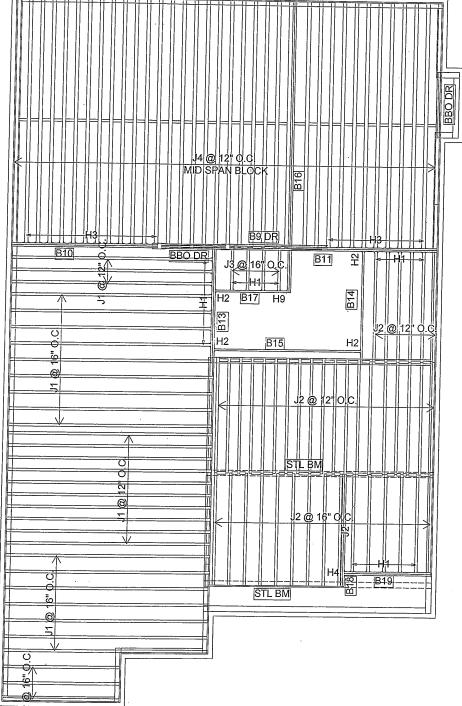
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PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS MATCHING SUPPORTED WALL WIDTH AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

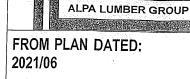
DWG # TAM 26064 29991 SEALED STRUCTURAL COMPONENTS ONLY



		Products		·
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	29
J2	10-00-00	11 7/8" NI-40x	1	43
J3	4-00-00	11 7/8" NI-40x	1	4
J4	22-00-00	11 7/8" NI-80	1	36
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16 🗂	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1 .
B10 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🗖	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17-	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19 🖊	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

i	Connector Summary						
	Qty	Manuf	Product				
- [4	H1	IUS2.56/11.88				
1	17	H1	IUS2.56/11.88				
1	1	H2	HUS1.81/10				
-	3	H2	HUS1.81/10				
	21	H3	IUS3.56/11.88				
1	1	H4	HGUS410				
	1	H9	LS90				

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LUMBER INC

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

9014

LOADING:

BCIN: 26064; FIRM: 29991

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

SNOW LOAD: 24.0 lb/ft²

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DWG# TAM 17886 THROUGH DWG# TAM 178934 INCLUSIVE DATED 8794

SEALED STRUCTURAL COMPONENTS ONLY: †1790621 +17907-21

SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS. MATCHING SUPPORTED WALL, WIDTH

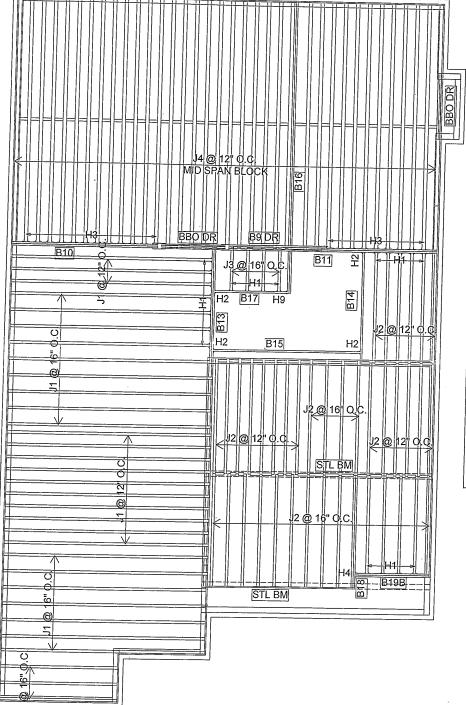
AND BEAMS DOWN TO FOUNDATION COMPONENTS, FOR PROPER INDITALLATION, SEE NOTIFIC LITERATURE PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM 26064 29991 SEALED STRUCTURAL





	<u> </u>	Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	29
J2	10-00-00	11 7/8" NI-40x	1	41
J3	4-00-00	11 7/8" NI-40x	1	4
J4	22-00-00	11 7/8" NI-80	1	36
B9 DR -	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16 📉	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 /	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 🛩	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17 📅	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B19B ✓	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

<u></u>	Connector Summary						
Qty	Manuf	Product					
4	H1	IUS2.56/11.88					
16	H1	IUS2.56/11.88					
1	H2	HUS1.81/10					
3	H2	HUS1.81/10					
21	НЗ	IUS3.56/11.88					
1	H4	HGUS410					
1	H9	LS90					

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT | BUILDER: ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.



FROM PLAN DATED: 2021/06

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2

BCIN: 26064; FIRM: 29991

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SI IBMISSION.

REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ MILL PROPER TIPE AND INSTALLATION GUIDELINES BEFORE DESCRIPTION. THE SUBDILIER AND SEALING WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO KEAD ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17886 THROUGH DWG# TAM 178927 INCLUSIVE DATED 8747

SEALED STRUCTURAL COMPONENTS ONLY: + 179021 + 1790621 + 17907-4

SEALED STRUCTURAL COMPONENTS ONLY:

SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

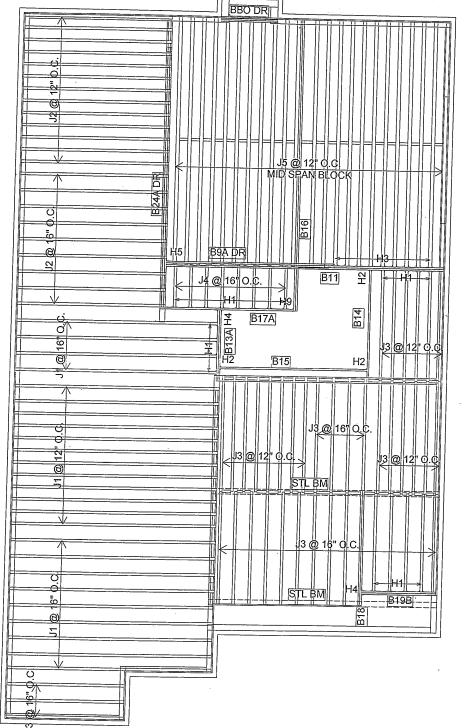
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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL





		Products		
PlotID	Length	Product .	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	25
J2	14-00-00	11 7/8" NI-40x	1	22
J3.	10-00-00	11 7/8" NI-40x	1	41
J4	4-00-00	11 7/8" NI-40x	1	8
J5	22-00-00	11 7/8" NI-80	1	23
B16 /	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 /	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B9A DR	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B17A —	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B14	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19B 🖊	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13A 🖊	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B24A DR 🖊	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	3	3

	Connector Summary					
Qty	Manuf	Product				
8	H1	IUS2.56/11.88				
13	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
2	H2	HUS1.81/10				
9	НЗ	IUS3.56/11.88				
1	H4	HGUS410				
1	H4	HGUS410				
1	H5	HGUS5.5/11.88				
1	H9	LS90				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504 **ELEVATION: B**

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

0011 BCIN: 26064; FIRM: 29991

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT

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DWG# TAM 178944HROUGH DWG# TAM 178474, INCLUSIVE DATED STATEMENT OF THE PROJECT OF TAME TO STATEMENT OF THE PROJECT O

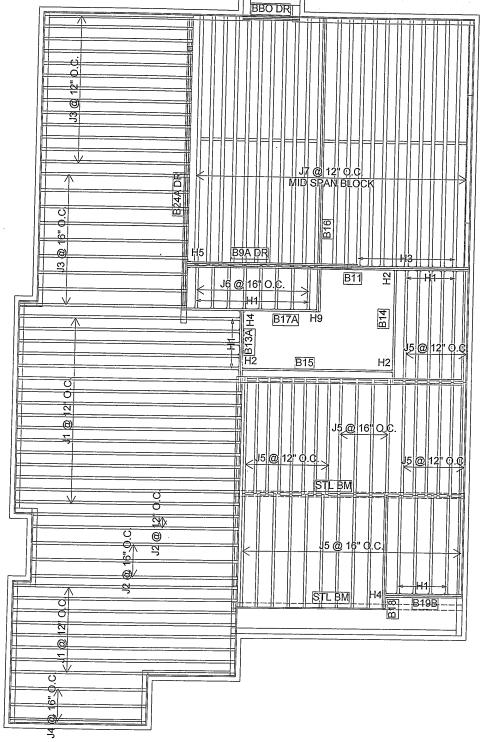
SEALED STRUCTURAL COMPONENTS ONLY: #17906-21 + 17907-21 + 17891-21 + 17902-21 SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIG WOOD-I JOIST ONLY. 2 x 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

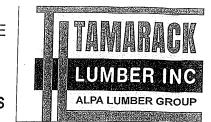
DWG # TAM 29991 SEALED STRUCTURAL



				
		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	24
J2	18-00-00	11 7/8" NI-40x	1	5
J3	14-00-00	11 7/8" NI-40x	1	22
J4	. 12-00-00	11 7/8" NI-40x	1	3
J5	10-00-00	11 7/8" NI-40x	1	38
J6	4-00-00	11 7/8" NI-40x	1	8
J7	22-00-00	11 7/8" NI-80	1	23
B16 -	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15-	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B9A DR 🖊	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B17A -	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B14~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19B	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13A-	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	
B24A DR		1-3/4" x 14" VERSA-LAM® 2.0 3100 SP		2
	00 00	1 0/7 1 1 VLNOM-LAIVIN 2.0 3 100 SP	3	3

Г		C		
L	Connector Summary			
Ĺ	Qty	Manuf	Product	
	8	H1	IUS2.56/11.88	
	14	H1	IUS2.56/11.88	
	1	H2	HUS1.81/10	
	2	H2	HUS1.81/10	
	9	H3	IUS3.56/11.88	
	1	H4	HGUS410	
	1	H4	HGUS410	
	1	H5	HGUS5.5/11.88	
	1	H9	LS90	

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FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

9014 BCIN: 26064; FIRM: 29991

DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft2

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKED DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

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DWG# TAM 1789 HAROUGH DWG# TAM 1789 THE FLOOR SYSTEM INSTALLATION.

SEALED STRUCTURAL COMPONENTS ONLY: †17890-24

SEALED STRUCTURAL COMPONENTS ONLY: 1796241 (1967-U) 117892-U 17962-U 1864ED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIG WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEFPROLECT ENGINEEPIS SPECIFICATIONS WERE PURE PROPERTY.

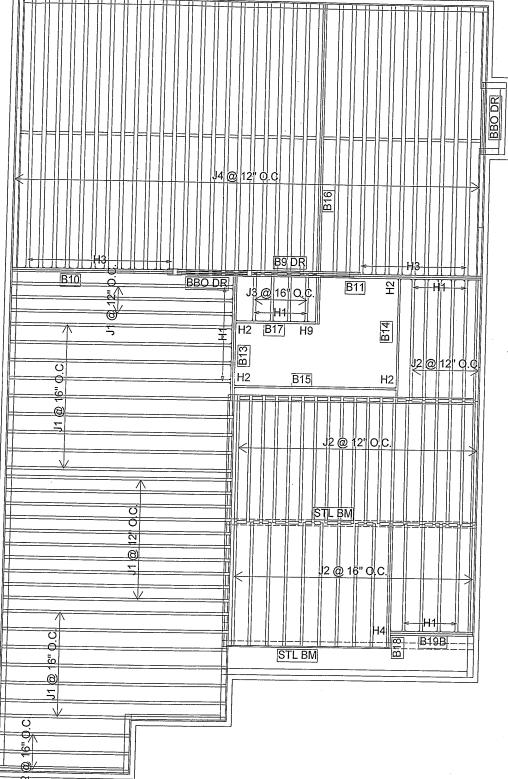
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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

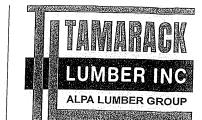
DWG # TAM 29991 SEALED STRUCTURAL



		Products	·	
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	29
J2	10-00-00	11 7/8" NI-40x	1	42
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B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10 ∽	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17 -	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B19B 🗂	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary					
Qty	Manuf	Product				
4	H1	IUS2.56/11.88				
16	H1	IUS2.56/11.88				
1	H2	HUS1.81/10				
3	H2	HUS1.81/10				
21	H3	IUS3.56/11.88				
1	.H4	HGUS410				
1	H9	LS90				

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT | BUILDER: ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ REVISION:

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft2

SNOW LOAD: 24.0 lb/ft2

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

BCIN: 26064; FIRM: 29991

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT, ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPERTY AND INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPERTY AND INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPERTY AND INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPERTY AND INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PROPERTY AND INSTALLATION OF THE PROPERTY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECTS END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17886 THROUGH DWG# TAM 17892-YINCLUSIVE DATED 8747

SEALED STRUCTURAL COMPONENTS ONLY: + 17901-1 + 17906-1 + 17901-2 SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-1 JOIST ONLY. 2X 6 SQUASSI BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

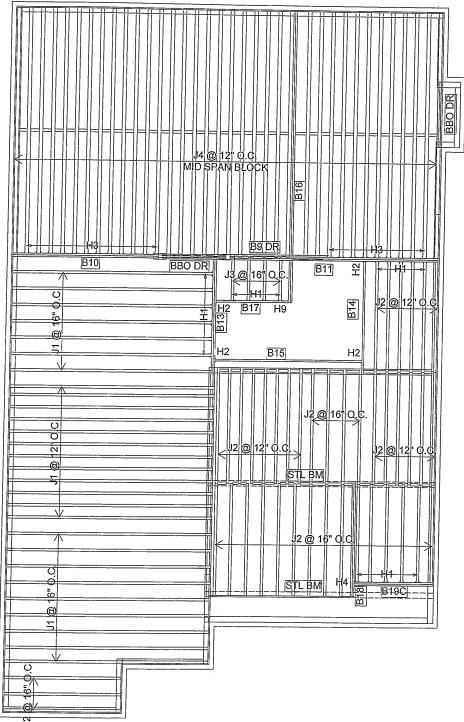
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM_ BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY

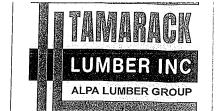
9014



<u> </u>		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	28
J2	10-00-00	11 7/8" NI-40x	1	42
J3	4-00-00	11 7/8" NI-40x	1	4
J4	22-00-00	11 7/8" NI-80	1	36
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 7	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10-	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🗖	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19C	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	0	. 0					
	Connector Summary						
Qty	Manuf	Product					
4	H1	IUS2.56/11.88					
16	H1	IUS2.56/11.88					
1	H2	HUS1.81/10					
3	H2	HUS1.81/10					
21	H3	IUS3.56/11.88					
1	H4	HGUS410					
1	H9	LS90					

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD **CUT OPENINGS** SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: A.J. **REVISION:**

DATE: 2021-08-31

2nd FLOOR

SNOW LOAD: 24.0 lb/ft²

DEAD LOAD: 20.0 lb/ft²

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

LOADING:

SUBFLOOR: 5/8" GLUED AND NAILED

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECTS END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 1786 THROUGH DWG# TAM 17892 MCLUSIVE DATED STALLATION CONTRACTOR.

SEALED STRUCTURAL COMPONENTS ONLY: #17903-2/ +12906-4+(290)-7/
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS, WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

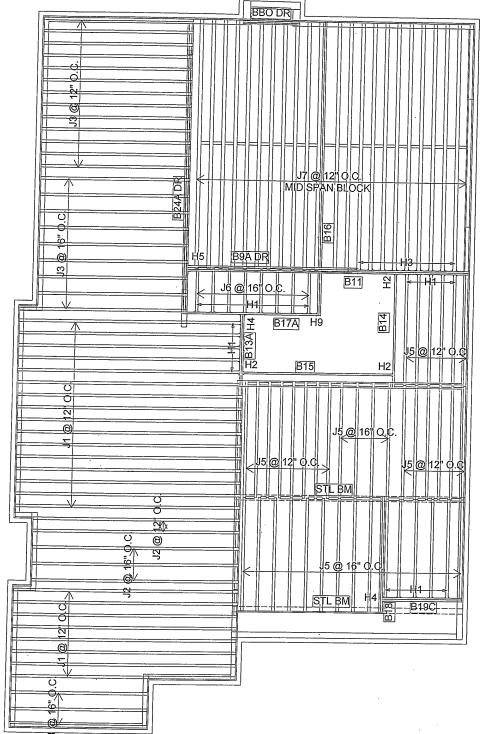
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I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL

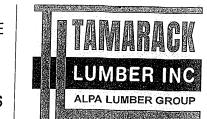




	· .	Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	24
J2	18-00-00	11 7/8" NI-40x	1	5
J3	14-00-00	11 7/8" NI-40x	1	22
J4	12-00-00	11 7/8" NI-40x	1	3
J5	10-00-00	11 7/8" NI-40x	1	39
J6	4-00-00	11 7/8" NI-40x	1	8
J7	22-00-00	11 7/8" NI-80	1	23
B16 🐔	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B9A DR 🗂	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B17A 🗂	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1 -
B14 /	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19C ~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13A*	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B24A DR→	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	3	3

	Connoct	or Cumman		
-04	Connector Summary			
Qty	Manuf	Product		
8	H1	IUS2.56/11.88		
15	H1	IUS2.56/11.88		
1	H2	HUS1.81/10		
2	H2	HUS1.81/10		
9	H3	IUS3.56/11.88		
1	H4	HGUS410		
1	H4	HGUS410		
1	H5	HGUS5.5/11.88		
1	H9	LS90		

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS, SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: A.I **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

BCIN: 26064; FIRM: 29991

DESIGN LOADS: L/480.000

SUBFLOOR: 5/8" GLUED AND NAILED

LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKED DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM

FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17894 THROUGH DWG# TAM 1789721, INCLUSIVE DATED 17892-21 + 17892-

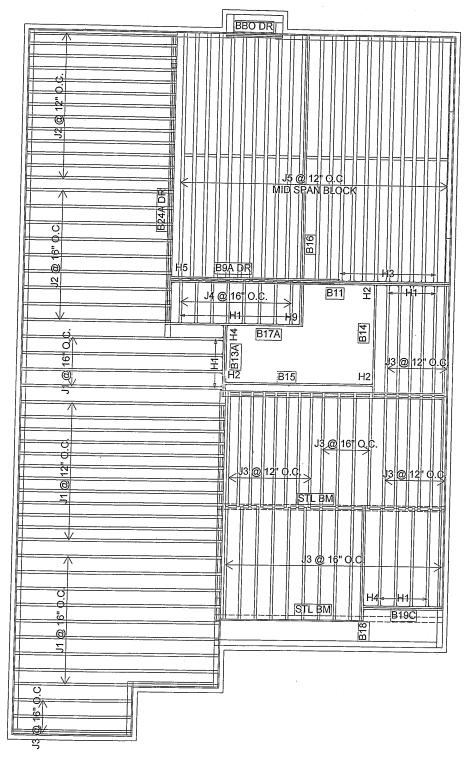
SEALED STRUCTURAL COMPONENTS ONLY: \$17906.21 +17907-21 +17842-21 +17903-21 SEALED STRUCTURAL COMPONENTS ONLY: \$17906.21 +17907-21 +17842-21 +17903-21 SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY: 2 x 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT. DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

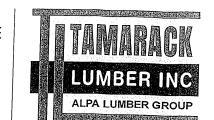
DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



		Products	· · · · · · · · · · · · · · · · · · ·	
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	25
J2	14-00-00	11 7/8" NI-40x	1	22
J3	10-00-00	11 7/8" NI-40x	1	41
J4	4-00-00	11 7/8" NI-40x	1	8
J5	22-00-00	11 7/8" NI-80	1	23
B16 🗖	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 /	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B9A DR 🗝	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B17A~	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B14 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🛩	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19C~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13A	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B24A DR 🗸	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	3	3

	Connector Summary				
Qty	Manuf	Product			
8	H1	IUS2.56/11.88			
13	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
2	H2	HUS1.81/10			
9	H3	IUS3.56/11.88			
1	H4	HGUS410			
1	H4	HGUS410			
1	H5	HGUS5.5/11.88			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F. REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: A.I **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

BCIN: 26064; FIRM: 29991

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID ON NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM INSTALLATION CONTRACTOR.

INDRESSED STRUCTURAL COMPONENTS ONLY: *17966-2-1 F1766-2-1** F1766-2-1**

SEALED STRUCTURAL COMPONENTS ONLY: 177662117907-2117892-2117903-21

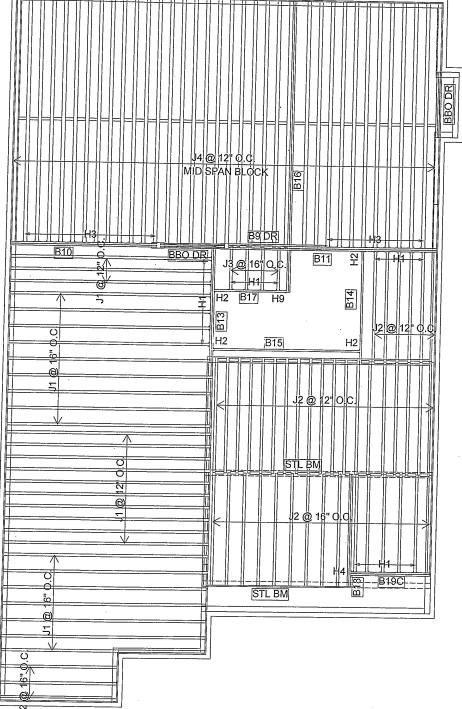
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS. A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL

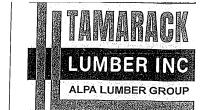




		Products		
PlotID	Length	Product	Plies	Net Qty
J1	18-00-00	11 7/8" NI-40x	1	29
J2	10-00-00	11 7/8" NI-40x	1	43
J3	4-00-00	11 7/8" NI-40x	1	4
J4	22-00-00	11 7/8" NI-80	1	36
B9 DR *	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16 7	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 C	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 🗂	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 💆	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17 🗂	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	_ 1	1
B19C ~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
4	H1	IUS2.56/11.88			
17	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
3	H2	HUS1.81/10			
21	НЗ	IUS3.56/11.88			
1	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD **CUT OPENINGS** SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH

MODEL: 4504

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

BCIN: 26064, FIRM: 29991

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft²

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE SLOOR SYSTEM COMPONENTS DEFURDED IN THIS DEMOCRACY.

REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD
CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.
MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.
INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY
HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE
WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ
ALL PRODUCT LITERATURE AND INSTALLATION GUIDE LIVE PEROPE PROCEEDING. THE GUIDPLUSE AND SAGILING ALL PRODUCT LITERATURE AND INSTALLATION OF THIS FLOOR SYSTEM, INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 1786 THROUGH DWG# TAM 17892-2 INCLUSIVE DATED 87 4/1

SEALED STRUCTURAL COMPONENTS ONLY: +17903-4+17906-4+17907-4
SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED

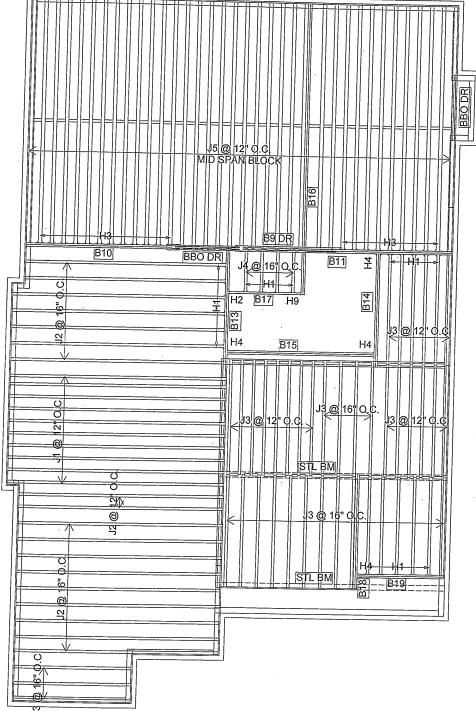
PROJECT ENGINEER'S SPECIFICATIONS, WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/16D DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM FIRM: 29991 SEALED STRUCTURAL



		Products		
PlotID	Length	Product	Plies	Net Qtv
J1	20-00-00	11 7/8" NI-40x	1	10
J2	18-00-00	11 7/8" NI-40x	1	18
J3	10-00-00	11 7/8" NI-40x	1	42
J4	4-00-00	11 7/8" NI-40x	1	4
J5	22-00-00	11 7/8" NI-80	1	36
B9 DR 🐬	7 8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B10~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B11 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19 🖊	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
4	H1	IUS2.56/11.88			
16	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
21	H3	IUS3.56/11.88			
4	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH **MODEL:** 4504 FLANKAGE COR

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

90121

LOADING:

DESIGN LOADS: L/480.000

SUBFLOOR: 5/8" GLUED AND NAILED

LIVE LOAD: 40.0 lb/ft²

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 1786 THROUGH DWG# TAM 17893 JNCLUSIVE DATED STAN

SEALED STRUCTURAL COMPONENTS ONLY: 1796-14 + 17907-27

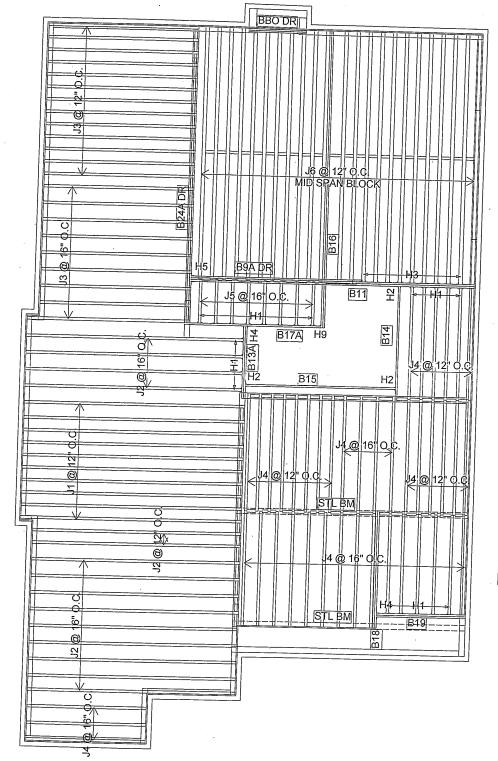
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEPPROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

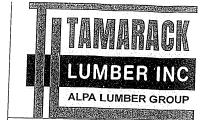
DWG # TAN BCIN: FIRM: 26064 SEALED STRUCTURAL COMPONENTS ONLY



		Products		
PlotID	Length	Product	Plies	Net Qtv
J1	20-00-00	11 7/8" NI-40x	1	10
J2	18-00-00	11 7/8" NI-40x	1	15
J3	14-00-00	11 7/8" NI-40x	1	22
J4	10-00-00	11 7/8" NI-40x	1	
J5	4-00-00	11 7/8" NI-40x	1	42
J6	22-00-00	11 7/8" NI-80	1	8
B16 🖛	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	7	23
B15 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2 ·	2
B9A DR ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B17A 🗂	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B14 "	10-00-00	1-3/4" x 11-7/6 VERSA-LAM® 2.0 3100 SP	1	. 1
B11 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B18 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B19 🗂		1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
Б19 В13А ≅	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
	6-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B24A DR -	22-00-00	1-3/4" x 14" VERSA-LAM® 2.0 3100 SP	3	3

	Connector Summary				
Qty	Manuf				
8	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
2 ·	· H2	HUS1.81/10			
9	H3	IUS3.56/11.88			
1	H4	HGUS410			
1	H4	HGUS410			
1	H5	HGUS5.5/11.88			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft2

SUBFLOOR: 5/8" GLUED AND NAILED

BCIN: 26064; FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY HAVE A COPY OF THE NORDIC INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SUPPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 1789 THROUGH DWG# TAM 17897 INCLUSIVE DATED THE SUPPLIER AND SEALING PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

SEALED STRUCTURAL COMPONENTS ONLY: 1/906 1 +1/907-21 +1/982-24

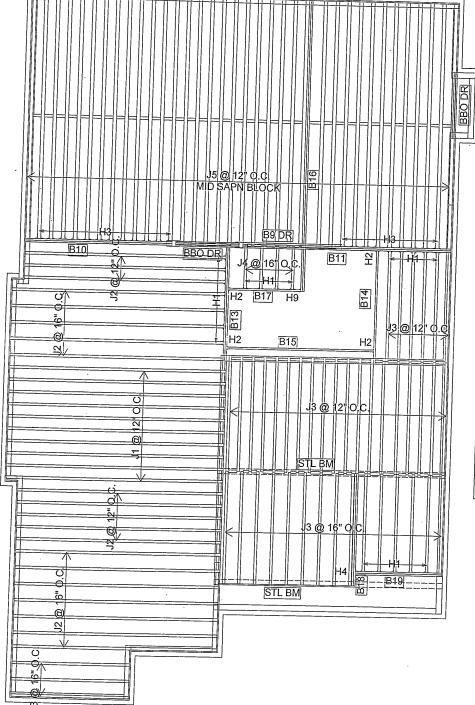
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-1 JOIST ONLY: 2 x 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEPPROJECT ENGINEERS SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

A COMPLETE FRAIMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

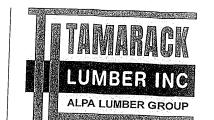
DWG # TAM BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



DI (15		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	10
J2	18-00-00	11 7/8" NI-40x	1	20
J3	10-00-00	11 7/8" NI-40x	1	43
J4	4-00-00	11 7/8" NI-40x	1	43 4
J5	22-00-00	11 7/8" NI-80	1	-
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	36
B16~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B15 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B10-	14-00-00	1 3/4" x 11 7/0" VERSA-LAND 2.0 3100 SP	1	1
B14 -	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B11 -		1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	. 1
	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17 💆	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
4	H1	IUS2.56/11.88			
17	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
3	H2	HUS1.81/10			
21	H3	IUS3.56/11.88			
1	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT | BUILDER: ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

BCIN: 26064, FIRM: 29991

LOADING:

DESIGN LOADS: L/480,000

SUBFLOOR: 5/8" GLUED AND NAILED

LIVE LOAD: 40.0 lb/ft²

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft2

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT RIGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFINATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM_17886THROUGH DWG# TAM_17893-TINCLUSIVE DATED_STAN

SEALED STRUCTURAL COMPONENTS ONLY: †17906-24 +17907-27

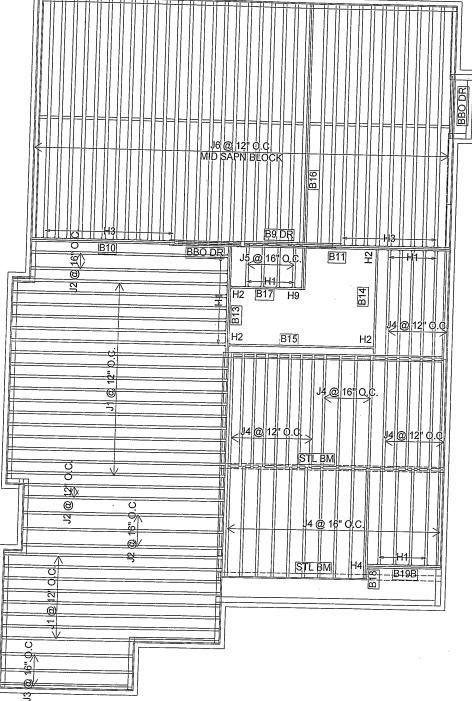
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ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS LEPICAMENT.

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

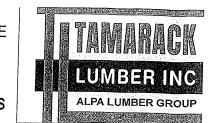
DWG # TAM_ BCIN: 26064 FIRM: 29991 SEALED STRUCTURAL COMPONENTS ONLY



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	25
J2	18-00-00	11 7/8" NI-40x	1	7
J3	12-00-00	11 7/8" NI-40x	1	3
J4	10-00-00	11 7/8" NI-40x	1	38
J5	4-00-00	11 7/8" NI-40x	. 1	4
J6	22-00-00	11 7/8" NI-80	1	- 36
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16~	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 ~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 🕶	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1 .	4
B11-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13-	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	
B17 /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	2
B19B /	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
4	H1	IUS2.56/11.88			
17	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
3	H2	HUS1.81/10			
21	H3	IUS3.56/11.88			
1 .	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

9014 BCIN: 26064; FIRM: 29991

LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft2

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft2

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE SOURCE OF THE SECOND OF TH MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

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DWG# TAM 17886HROUGH DWG# TAM 178984, INCLUSIVE DATED

SEALED STRUCTURAL COMPONENTS ONLY: 17902-1 11906-1 17960-2 SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEP PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

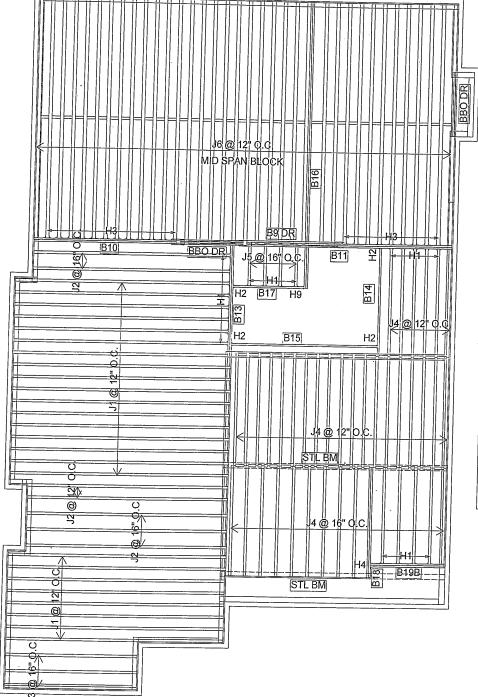
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS, FOR PROPER INSTALLATION.

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PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH
ABOVE BLOCKS, INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIST DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC

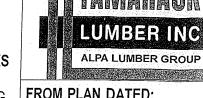
DWG # TAM FIRM: 29991 SEALED STRUCTURAL



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	25
J2	18-00-00	11 7/8" NI-40x	1	7
J3	12-00-00	11 7/8" NI-40x	1	3
J4	10-00-00	11 7/8" NI-40x	1	39
J5	4-00-00	11 7/8" NI-40x	1	4
J6	22-00-00	11 7/8" NI-80	1	36
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3
B16 /	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1 .
B10 💆	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 💆	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13/	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18 🖊	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B17/	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B19B	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
4	H1	IUS2.56/11.88			
17	H1	IUS2.56/11.88			
1	H2	HUS1.81/10			
3	H2	HUS1.81/10			
21	H3	IUS3.56/11.88			
1	H4	HGUS410			
1	H9	LS90			

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

DEAD LOAD: 20.0 lb/ft²

SNOW LOAD: 24.0 lb/ft²

LOADING:

BCIN: 26064: FIRM: 29991

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKD DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE MORE OR LESS DAS PER PLAN WORKE DO NOT REPRESENT A PART OF THE SCOPE OF WORK WILLIAM THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT, ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION. MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM
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DWG# TAM 17865THROUGH DWG# TAM 17892-2 INCLUSIVE DATED SEALED STRUCTURAL COMPONENTS ONLY: + 17902-1 + 17906-1 + 17907-2 SEALED, THIRD PARTY L'VL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

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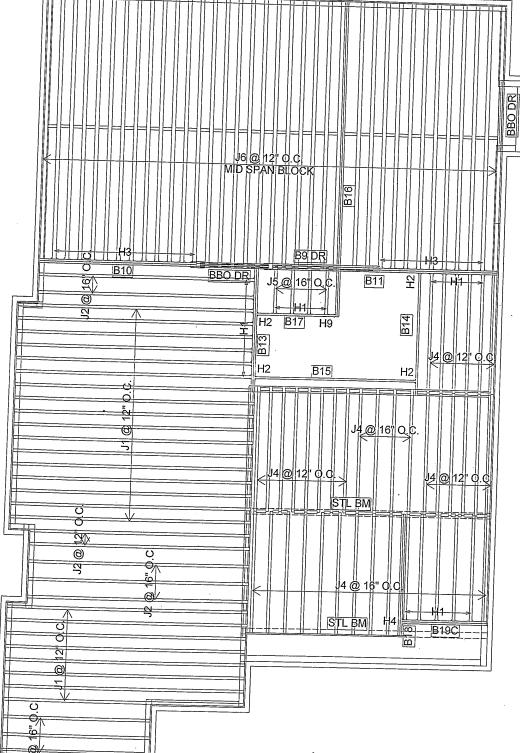
DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT

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REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM SEALED STRUCTURAL COMPONENTS ONLY

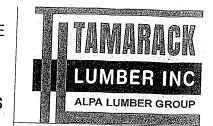




7 ٢					
-	DI- UD		Products		
	PlotID	Length	Product	Plies	Net Qty
	J1	20-00-00	11 7/8" NI-40x	1	25
	J2	18-00-00	11 7/8" NI-40x	1	7
	J3	12-00-00	11 7/8" NI-40x	1	3
.]	J4	10-00-00	11 7/8" NI-40x	i 1	• .
	J5	4-00-00	11 7/8" NI-40x	1	39
	J6	22-00-00	11 7/8" NI-80	1	4
	B9 DR "	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	36
	B16 🗖	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
11	B15 ~	14-00-00	1-3/4" × 11 7/0" VEDCA LAMB 2.2.3100 SP	2	2
- 1	B10 -	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
1 7	314	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
	311		1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
1		10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
1	313 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
ĺ	318 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
E	317 ~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
E	319C	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

		Connecte	C.
			or Summary
	Qty	Manuf	Product
	4	H1	IUS2.56/11.88
ı	18	H1	IUS2.56/11.88
	1	H2	HUS1.81/10
	3	H2	HUS1.81/10
	21	НЗ	IUS3.56/11.88
1	1	H4	HGUS410
L	1	H9	LS90

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. SQUASH BLOCKS OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.



FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ REVISION:

DATE: 2021-08-31

2nd FLOOR

9012

DESIGN LOADS: L/480.000

SUBFLOOR: 5/8" GLUED AND NAILED

LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ff²

SNOW LOAD: 24.0 lb/ft2

BCIN: 26064: FIRM: 29991

LOADING:

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER, ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION, ALL NOTES DESIGNATING MORE OR LESS DIAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AND IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AND IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM INSTALLERS ARE TO READ ALL PRODUCT LITERATURE AND INSTALLATION GUIDELINES BEFORE PROCEEDING. THE SUPPLIER AND SEALING PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SURPLUS OR DEFICIT OF PRODUCTS AT REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 17886 THROUGH DWG# TAM 17882- YINCLUSIVE DATED 8249

SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEF PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED). SEE DETAILS.

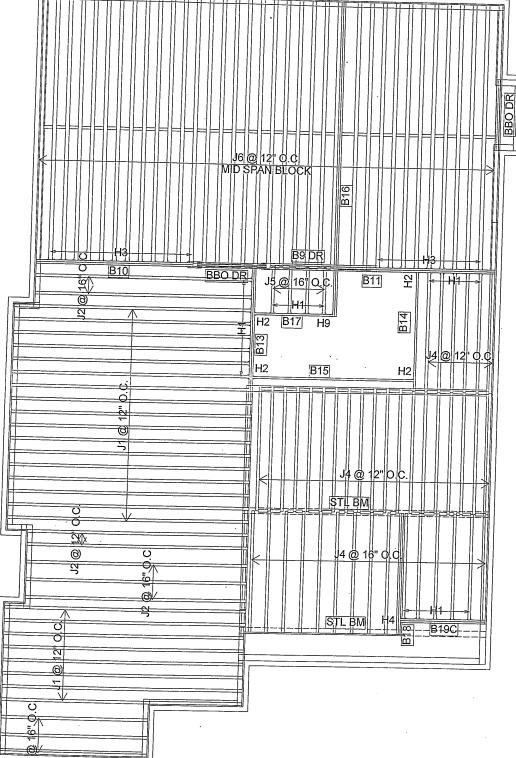
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE. ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM SEALED STRUCTURAL COMPONENTS ONLY





			•	
		Products	· · · · · · · · · · · · · · · · · · ·	
PlotID	Length	Product	Plies	Net Qty
J1	20-00-00	11 7/8" NI-40x	1	25
J2	18-00-00	11 7/8" NI-40x	i	7
J3	12-00-00	11 7/8" NI-40x	1	3
J4	10-00-00	11 7/8" NI-40x	1	40
J5	4-00-00	11 7/8" NI-40x	1	4
J6	22-00-00	11 7/8" NI-80	1	36
B9 DR	8-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	3	3 ·
B16 -	24-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B15 <	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B10~	14-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B14 ~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B11	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B13~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B18~	10-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	
B17~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	2
B19C~	8-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	•	1
			2	2

		Connecto	or Summary
	Qty	Manuf	Product
	4	H1	IUS2.56/11.88
	18	H1	IUS2.56/11.88
	1	H2	HUS1.81/10
	3	H2	HUS1.81/10
	21	H3	IUS3.56/11.88
	1	H4	HGUS410
L	1	H9	LS90

NOIES:

REFER TO THE NORDIC INSTALLATION GUIDE FOR PROPER STORAGE AND INSTALLATION. **SQUASH BLOCKS** OF 2x4, 2x6, 2x8 #2 S.P.F REQ'D UNDER INTERIOR UNIFORM LOAD BEARING WALLS. MULTIPLE SQUASH BLOCKS REQ'D UNDER CONCENTRATED LOADS. SEE FIGURE 1. CANTILEVERED JOISTS INCLUDING CANT' OVER BRICK REQ. I-JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7, TABLES 1 & 2. CERAMIC TILE APPLICATION AS PER O.B.C 9.30.6.

LOADING: DESIGN LOADS: L/480,000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² SNOW LOAD: 24.0 lb/ft²

SUBFLOOR: 5/8" GLUED AND NAILED

LUMBER INC ALPA LUMBER GROUP

FROM PLAN DATED: 2021/06

BUILDER:

ROYAL PINE HOMES

SITE:

VALES OF HUMBER NORTH MODEL: 4504 FLANKAGE COR

ELEVATION: C

LOT:

CITY: BRAMPTON

SALESMAN: RICK DICIANO

DESIGNER: AJ **REVISION:**

DATE: 2021-08-31

2nd FLOOR

OPTION 5 BEDROOM

ENGINEERING ONLY - DIMENSIONS TO BE VERIFIED ON SITE SUPPORTING STRUCTURE TO BE VERIFIED BY QUALIFIED BUILDING DESIGNER. ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING DESIGNER PRIOR TO JOIST(S) AND FLOOR BEAM(S) INSTALLATION. ALL NOTES DESIGNATING MORE OR LESS DAS PER PLAN WORKID DO NOT REPRESENT A PART OF THE SCOPE OF WORK WITHIN THE BOUNDARIES OF THE SEAL. THIS WORK IS DELEGATED TO A QUALIFIED BUILDING DESIGNER HAVING RESPONSIBILITY FOR THIS PROJECT. ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THIS LAYOUT ARE BEAMS SPECIFIED BY BUILDING DESIGNER AND/OR PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNER(S) PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE FLOOR SYSTEM COMPONENTS REVIEWED IN THIS SUBMISSION.

MUNICIPALITY HAVING JURISDICTION TO OBTAIN LOT SPECIFIC SCHEDULE 1 FORM FROM THIS OFFICE PRIOR TO BUILDING PERMIT APPROVAL.

INSTALLERS OF THIS FLOOR SYSTEM AND THEIR COMPANIES HAVE THE RESPONSIBILITY OF ENSURING THEY WHICH WILL AID IN THE OVERALL PROPER INSTALLATION GUIDE AND ANY OTHER MANUFACTURER'S PRODUCT LITERATURE WHICH WILL AID IN THE OVERALL PROPER INSTALLATION OF THIS FLOOR SYSTEM. AND SEALING ENGINEER OF THIS FLOOR SYSTEM ARE NOT RESPONSIBLE FOR SUPPLUS OR DEFICIT OF PRODUCTS AT PROJECT'S END. THIS LAYOUT IS A GUIDE ONLY. CONFIRMATION OF ALL QUANTITIES, LENGHTS, AND DETAILS, REMAINS THE RESPONSIBILITY OF THE FLOOR SYSTEM INSTALLATION CONTRACTOR.

DWG# TAM 178862 THROUGH DWG# TAM 17892-7 INCLUSIVE DATED STATE

SEALED STRUCTURAL COMPONENTS ONLY: T | 7903-1 + 17906-2 | +17907-2 |
SEALED, THIRD PARTY LVI. TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED
LOADED NORDIG WOOD-J JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PEP
PROJECT ENGINEER'S SPECIFICATIONS. WEB FILLER REINFORCEMENT REQUIRED AT ALL HANGER SUPPORTED
JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION
REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED
DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS,
AND BEAMS DOWN TO FOUNDATION COMPONENTS. FOR PROPER INSTALLATION, SEE NORDIC LITERATURE.
PROVIDE 2 X 4 OR 2 X 6 STUD GRADE OR BETTER SQUASH BLOCKS, MATCHING SUPPORTED WALL WIDTH
ABOVE BLOCKS. INSTALL SQUASH BLOCKS ON EACH SIDE OF JOIST. BLOCKING TO BE 1/160 DEEPER THAN JOIS
DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF A FIRM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE. I AM QUALIFIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

BCIN: 26064 SEALED STRUCTURAL

COMPONENTS ONLY

NORDIC

NS-GI33 **I**♥I

Engineered Wood Products

BASIC INSTALLATION **GUIDE FOR** RESIDENTIAL **FLOORS**

JOIST

NORDIC

nordic.ca

INSTALLING NORDIC I-JOISTS

- . Except for cutting to length, I-joist flanges should never be cut, drilled or notched
- i. Install I-joists so that top and bottom flanges are within 1/2 inch of true vertical alignment
- Concentrated loads should only be applied to the top surface of the top flange. Concentrated loads should not be suspe
- bottom flange with the exception of light loads, such as ceiling fans or light fixtures. I-joists must be protected from the weather prior to installation.
- . Hoists must not be used in applications where they will be permanently exposed to weather, or will reach a moisture content of 15 percent or greater, such as in swimming pool or hot tub areas. They must not be installed where they will remain in direct contact wi
- End bearing length must be at least 1-3/4 inch. For multiple-span joists, intermediate bearing length must be at least 3-1/2 inches.
- t. Ends of floor joists shall be restrained to prevent rollover. Use rim board or I-joist blocking panels.
- Hoists installed beneath bearing walls perpendicular to the joists shall have full-depth blocking panels, rim board, or squash blocks (cripple blocks) to transfer gravity loads from above the floor system to the wall or foundation below
- using a single I-joist is 3,300 plf, and 6,600 plf if double I-joists are used.
- 1. Continuous lateral support of the t-joist's compression flange is required to prevent rotation and buckling. In simple span uses, lateral support of the top flange is normally supplied by the floor sheathing. In multiple-span or cantilever applications, bracing of the I-joist's bottom flange is also required at interior supports of multiple-span joists, and at the end support next to the cantilever extension. The ends of all cantilever extensions must be laterally braced as shown in details 3, 4, or 5.
- 2. Nails installed in flange face or edge shall be spaced in accordance
- with the applicable building code requirements or approved building plans, but should not be closer than those specified on page 3.3 of the Nordic Joist Technical Guide (NS-GT3)
- other fastener requirements, see the applicable building code.
- 4. For proper temporary bracing of wood I-joists and placement of temporary construction loads, see APA Technical Note: Temporary Construction Loads over I-Joist Roofs and Floors, Form J735.

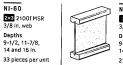
All nails shown in the details are assumed to be common nails unless otherwise noted. Nails shall have a diameter not less than 0.128 inch for 2-1/2-inch nails, or 0.144 inch for 3-inch nails. Individual components not shown to scale for clarity.

NORDIC I-JOIST SERIES RESIDENTIAL SERIES

1d



2×3 1950f MSR 3/8 in. web 9-1/2, 11-7/8 and 14 in. 33 pieces per unit





RIM BOARDS Width Lengtl 1-1/8 in. 16 ft Depths 9-1/2 to 16 in. APA Rim Board Plus

Do not walk on I-joists until fully fastened and

Once sheathed, do n

overstress I-loist with

concentrated loads from building material

23 pieces per unit

SAFETY AND CONSTRUCTION PRECAUTIONS

. Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and

or cross-bridging at joist ends. When I-joists are applied continuous over interior supports

and a load-bearing wall is planned at that location, blocking will be required at the interior

. When the building is completed, the floor sheathing will provide lateral support for the top

or temporary sheathing must be applied to prevent I-joist rollover or buckling,

flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts,

Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced

no more than 8 feet on centre, and must be secured with a minimum of two 2-1/2-inch

Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet

. Install and fully nail permanent sheathing to each I-joist before placing loads on the floor

mproper storage or installation, failure to follow applicable building codes, failure to follow

to use web stiffeners when required can result in serious accidents. Follow these installation

pan ratings for Nordic I-joists, failure to follow allowable hole sizes and locations, or failure

system. Then, stack building materials over beams or walls only.

For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels,

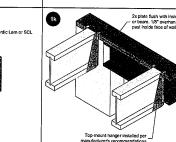
nails fastened to the top surface of each I-joist. Nail the bracing to a lateral restraint at the end of each bay. Lap ends of adjoining bracing over at least two I-joists.

woid Accidents by Following these Important Guidelines

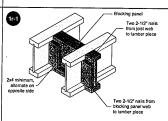
nd sheathed.

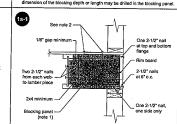
rim board, or cross-bridging.

Never install a damaged I-loist









FOR ALL construction details \rightarrow DC3

WEB HOLES AND OPENINGS

WEB HOLES IN I-JOISTS

 Θ

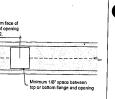
- A 1-1/2 inch hole or smaller can be placed enywhere in the web provious that it meets the requirements of n number 6 above. Never stack building materials over unsheathed I-joists.



DUCT CHASE OPENINGS

6b

- The distance between the inside edge of the support and the controlline of a duct chase opening shall be in compliance with the requirements of Table 6.2
- 2. I-joist top and bottom flances must never be cut, notched or otherwise m
- All openings shall be cut in accordance with the restrictions listed above and as illustrated in detail the

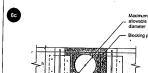


ist.	
um depth of the opening (in.)	en Max is to
6-1/4	l
8-5/8	

HOLES IN BLOCKING PANELS

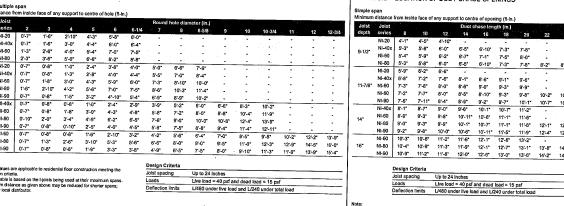
- The maximum allowable hole size for a lateral-restraint-only blocking panel is 26 of the lesser dimension of the blocking's depth or length. Assuming the blocking panel is longer than its height (or depth), the table aside applies. For other applications, contact Nortic Structures.

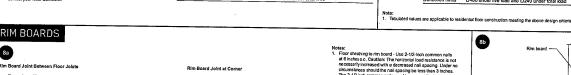
- Field-cut holes must be centred in the blocking horizontally

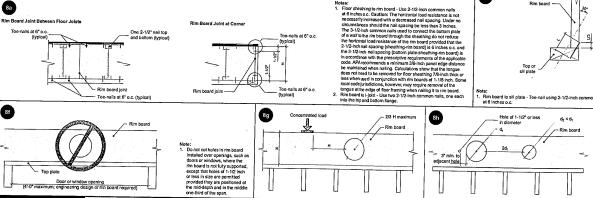


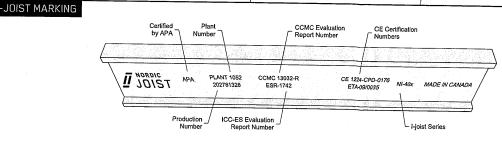
I-joist or rim board blocking depth (in.)	Maximum allowable hole diameter (in.) (iii
9-1/2	6-1/4
11-7/8	7-3/4
14	9-1/4
**	

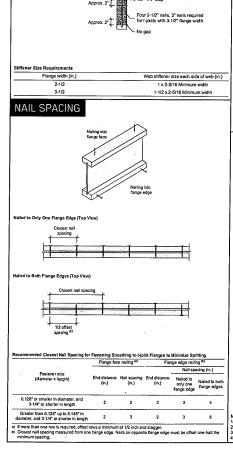


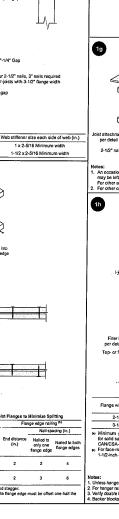




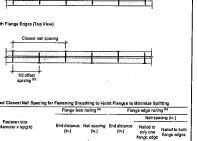


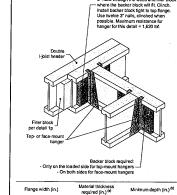






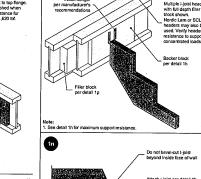






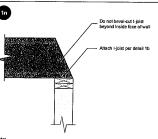
Filter block per detail 1p Top- or face-mount hanger	Backer block rec	
- Only on the i - On i	oaded side for top-mount ha both sides for face-mount ha	angers —/ angers
Flange width (in.)	Material thickness required (in.) (4)	Minimum depth (in.)
2-1/2	. 1	5-1/2
3-1/2	1-1/2	7-1/4
	ker block material shall be a nd wood structural panels c	

Flange width (in.)	Material thickness required (in.) (a)	Minimum depth (in.) (6)
2-1/2	1	5-1/2
3-1/2	1-1/2	7-1/4
for solid sawn lumber at CAN/CSA-O325 Standa	s use net joist depth minus 3	onforming to
tes: Unless hanger sides lateral	ly support the top flange, be	aring stiffeners shall be used



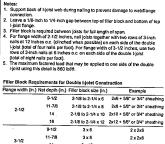
bearing stiffeners shall be used.

For nailing schedules for multiple Nordic Lam or SCL beams,
see the manufacturer's recommendations.









2 x 2x10

Schedule 1: Designer Information

Use one form for each individual who rev	views and takes re	sponsibility for design a	activities with respect t	to the project
/ · · · · · · · · · · · · · · · · · · ·		Applicati	on number:	e and project.
Building number, street name:			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	-	
B. Individual who reviews and tal	kes responsibil	ity for design activit	iae	
Name	- Topping	Firm	iles	
SAM KATSOULAKOS			NGINEERING SERV	ICES INC
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Telephone number (519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken by Division C]	y individual ide	ntified in Section B.	[Building Code Ta	able 3.5.2.1. of
☐ House	☐ HVAC -	aline e a a sala in e e i e i e i e i e i e i e i e i e	<u>alangua</u> in Albandayan in	
☐ Small Buildings		- House Services	⊠ Building S	Structural
☐ Large Buildings	☐ Defection	on, Lighting and Power	☐ Plumbing	- House
☐ Complex Buildings	☐ Fire Pro	tection	☐ Plumbing -	- All Buildings
Description of designer's work: ROYAL PINE HOMES-PROJECT: VALES OF HUMBE REVIEW PRE-ENGINEERED FLOOR SYS				wage Systems
I, <u>SAM KATSOULAKOS</u> (print nam 区 I review and take responsibil C, of the Building Code. I am	ity for the design v	vork on behalf of a firm firm is registered, in the	rogiotore de la	one as appropriate):
Individual BCIN: 260		G ****, a	Tre opinate olagges/(ategones.
Firm BCIN:				
☐ I review and take responsibilit under subsection 3.2.5.of Divi	y for the design ar sion C, of the Build	nd am qualified in the apding Code.	ppropriate category as	an "other designer"
Basis for exemption from The design work is exempt fro Basis for exemption from	m the registration	and qualification require	ements of the Building	Code.
certify that: 1. The information contained in this so 2. I have submitted this application wi	chedule is true to the	he best of my knowledg and consent of the firm.	e.	
Date / OP	yn .	ignature of Designer		
NOTE:	<u>, </u>	.gataro or Designer		

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM21542-21S DWG #TAM21547-21S

Schedule 1: Designer Information

		Applicati	activities with respect to	z are project.
Building number, street name:	3		Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other		
B. Individual who reviews and to	akes responsibil	ity for dooign activi	40.2	
Ivanie	ee rooponsion	Firm	ties	
SAM KATSOULAKOS		f .	ENGINEERING SERVI	CEC INO
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail mcengr	@xplornet.com
Telephone number 519) 287-2242 Business	Fax number	OWIAMO	Cell number	
C. Design activities undertaken I Division CI	ov individual ide	ntified in Coeties D	TD THE	
Division C]	-,aividaai idel	named in Section B.	Leunding Code Ta	ble 3.5.2.1. of
☐ House	☐ HVAC -	- House		
☐ Small Buildings		- House Services	☑ Building St	tructural
☐ Large Buildings	□ Detection	Del VICES	☐ Plumbing –	House
☐ Complex Buildings	☐ Fire Pro	on, Lighting and Power	☐ Plumbing –	All Buildings
escription of designer's work: (AL PINE HOMES-PROJECT: VALES OF HUME VIEW PRE-ENGINEERED FLOOR SY			☐ On-site Sev	
	D BUILDING DESI	ED <u>10-04-21</u>). SUPPC GNER.	THE STRUCTURE	(2) IO BF
. Declaration of Designer SAM KATSOULAKOS	D DOILDING DEGIC	GNER.		
. Declaration of Designer	me)	work on halvis s. s.	_declare that (choose o	one as appropriate
. Declaration of Designer SAM KATSOULAKOS (print na	me) ility for the design w	work on halvis s. s.	_declare that (choose o	one as appropriate
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. Declaration of Designer SAM KATSOULAKOS (print na ☑ I review and take responsible C, of the Building Code. I and Individual BCIN:	me) illity for the design was qualified, and the electric design and the electric design and ity for the design and vision C, of the Build and registration: on the registration:	vork on behalf of a firm firm is registered, in the and am qualified in the apding Code.	declare that (choose of registered under subset appropriate classes/cate)	one as appropriate oction 3.2.4.of Divis ategories.
Declaration of Designer SAM KATSOULAKOS (print na	me) illity for the design was qualified, and the modern and qualified and the modern and qualified and qualif	vork on behalf of a firm firm is registered, in the arding Code. and qualification require a latification:	declare that (choose of registered under subset) appropriate classes/category as a sements of the Building (one as appropriate oction 3.2.4.of Divis ategories.
Declaration of Designer SAM KATSOULAKOS (print na I review and take responsible C, of the Building Code. I and Individual BCIN: 260 Firm BCIN: 299 ☐ I review and take responsibile under subsection 3.2.5.of Dividual BCIN: Basis for exemption from ☐ The design work is exempt for Basis for exemption from ertify that: 1. The information contained in this section in the section in this section in the sect	me) illity for the design was qualified, and the modern and qualified and the modern and qualified and qualif	vork on behalf of a firm firm is registered, in the arding Code. and qualification require a latification:	declare that (choose of registered under subset) appropriate classes/category as a sements of the Building (one as appropriate oction 3.2.4.of Divis ategories.

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG #TAM21543-21S

DWG #TAM21548-21S

Schedule 1: Designer Information

A. Project Information			activities with respect to	The control of the second second
Building number, street name:		Applicati	on number:	
			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	-	
B. Individual who reviews and t	akes responsibil	ity for design activi	ties	
Name		Firm		<u> </u>
SAM KATSOULAKOS Street address		MICRO CITY	ENGINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Telephone number [519] 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken Division C]	by individual ide	ntified in Section B.	[Building Code Ta	ble 3.5.2.1. of
☐ House	☐ HVAC -	- House	⊠ Building S	truotural
☐ Small Buildings		Services	☐ Plumbing -	
Large Buildings		on, Lighting and Power	☐ Plumbing –	· All Buildings
☐ Complex Buildings escription of designer's work:	☐ Fire Pro	tection	☐ On-site Se	wage Systems
. Declaration of Designer				
SAM KATSOULAKOS			declare that (choose	one as appropriate)
(print n 区 I review and take responsi C, of the Building Code. I a	bility for the design v	work on behalf of a firm firm is registered, in the	_declare that (choose registered under subse appropriate classes/c	ootion 2.2.4 of Division
(print n ☑ I review and take responsi C, of the Building Code. I a	bility for the design v	work on behalf of a firm firm is registered, in the	registered under subs	ootion 2.2.4 of Division
区 I review and take responsi C, of the Building Code. I a Individual BCIN:2	bility for the design was mad the	work on behalf of a firm firm is registered, in the	registered under subs	ootion 2.2.4 of Division
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I review and take responsing C, of the Building Code. I and Individual BCIN:	bility for the design of m qualified, and the model of the second of the	nd am qualified in the a	registered under subset appropriate classes/c	ection 3.2.4.of Divisi rategories. an "other designer"
(print n I review and take responsi C, of the Building Code. I a Individual BCIN:	bility for the design of m qualified, and the model of the second of the Built of the Built of the registration of the registration of the registration of the second of the second of the second of the registration of the registration of the registration of the second of the second of the second of the registration of the registration of the second of	and qualification required and qualification required the best of my knowledge.	registered under subset appropriate classes/compropriate category as rements of the Building ge.	ection 3.2.4.of Divisinategories. an "other designer"
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NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM21544-21S DWG #TAM21549-21S

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Building numbe			Application	on number: Unit no.	
				Unit no.	Lot/con.
Municipality CITY C	F BRAMPTON	Postal code	Plan number/ other	description	
B. Individual	who reviews and ta	kes responsibil	ity for design activit	06	
Name			Firm	<u> </u>	·
	SOULAKOS			NGINEERING SERVI	CES INC.
Street address R.R #1, PO BOX	61			Unit no.	Lot/con.
Municipality GLENCOE		Postal code N0L 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Telephone number		Fax number	ONTARIO	Cell number	
(519) 287-2242	Business		-		
C. Design acti Division C]	vities undertaken b	y individual ide	ntified in Section B.	[Building Code Ta	ble 3.5.2.1. of
☐ House			, w		
☐ Flouse☐ Small Bu	ildinge	☐ HVAC -		⊠ Building S	Structural
☐ Large Bu			Services	☐ Plumbing -	- House
☐ Complex	Ruildings	☐ Fire Pro	on, Lighting and Power	☐ Plumbing –	· All Buildings
Description of des	inner's work:	LI FILE FIO	nection	☐ On-site Se	wage Systems
D. Declaration	of Designer		GNER.		
			GNEN.	declare that (choose	One as annropriately
I, <u>SAM KATSOUL</u> ⊠ I revi	AKOS (print nar	lity for the design v	work on behalf of a firm firm is registered, in the	registered under sub-	action 0.0 A (D)
I, <u>SAM KATSOUL</u> ⊠ I revi C, of	AKOS (print nar	lity for the design value of the	Work on hehalf of a firm	registered under sub-	one as appropriate): ection 3.2.4.of Divisio categories.
i, or	AKOS (print nar ew and take responsibi the Building Code. I am	lity for the design value of the design value	Work on hehalf of a firm	registered under sub-	antina 0.0 4 (Ditt
I, <u>SAM KATSOUL</u> I revie I revie under	(print nar ew and take responsibi the Building Code. I am ndividual BCIN: 260	lity for the design value of the design value of the design value of the design are the design are	work on behalf of a firm firm is registered, in the	registered under subs appropriate classes/c	ection 3.2.4.of Divisionategories.
, SAM KATSOUL ☑ I revice C, of ☐ I revice under Ir B ☐ The de	(print nar ew and take responsibilithe Building Code. I am andividual BCIN:	lity for the design of qualified, and the design are sistenced by the design are sistenced by the Buil registration:	work on behalf of a firm firm is registered, in the and am qualified in the and ding Code.	registered under subs appropriate classes/o	ection 3.2.4.of Divisionategories. an "other designer"
, SAM KATSOUL ☑ I revie C, of ☐ I revie under Ir B ☐ The do	(print nar ew and take responsibilithe Building Code. I am andividual BCIN:	lity for the design of qualified, and the design are sistenced by the design are sistenced by the Buil registration:	work on behalf of a firm firm is registered, in the and am qualified in the and ding Code.	registered under subs appropriate classes/o	ection 3.2.4.of Divisionategories. an "other designer"
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NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM21545-21S DWG #TAM21550-21S

Schedule 1: Designer Information Use one form for each individual who reviews and takes responsibility for design activities with respect to the

A. Project Information		Application		the project.
Building number, street name:		<u>and the state of </u>	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other des	scription	
CITY OF BRAMPTON			•	
B. Individual who reviews and takes	s responsibili			
SAM KATSOULAKOS		Firm MICRO CITY ENG	INEERING SERVIC	SEC INC
Street address		orto orri Erro	Unit no.	Lot/con.
R.R #1, PO BOX 61 Municipality	Postal code	Province		
GLENCOE	NOL 1MO	ONTARIO	E-mail mcengr	@xplornet.com
Telephone number (519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken by in Division C]	ndividual ide	ntified in Section B. [B	uilding Code Tal	ole 3.5.2.1. of
☐ House	☐ HVAC -	- House	⊠ Building St	ructural
☐ Small Buildings		Services	☐ Plumbing –	House
☐ Large Buildings ☐ Complex Buildings	☐ Detection ☐ Fire Pro	on, Lighting and Power	☐ Plumbing —	All Buildings
Description of designer's work:	LI FILE PIO	tection	☐ On-site Sev	vage Systems
TAMARACK LUMBER INC. (SEE DWG #TAM REVIEWED AND VERIFED BY QUALIFIED B D. Declaration of Designer I, SAM KATSOULAKOS (print name) I review and take responsibility C, of the Building Code. I am qu	for the design v	Work on behalf of a firm req	eclare that (choose o	one as appropriate):
Individual BCIN: <u>26064</u>				
Firm BCIN: 29991				
☐ I review and take responsibility to under subsection 3.2.5.of Division Individual BCIN:	or the design aron C, of the Buil	nd am qualified in the approding Code.	opriate category as a	an "other designer"
Basis for exemption from re The design work is exempt from Basis for exemption from re	the registration	and qualification requirement	ents of the Building	Code.
Certify that: The information contained in this school. I have submitted this application with	edule is true to t the knowledge	the best of my knowledge. and consent of the firm.		
Date A	20 A -		<i></i>	
NOTE:	7/1/ 5	Signature of Designer		

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM21546-21S DWG #TAM21551-21S

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities.

Municipality CITY OF BRAMPTON 3. Individual who reviews and to			Unit no.	Lot/con.
CITY OF BRAMPION	Postal code	Plan number/ other de	scription	
			· · · · · · · · · · · · · · · · · · ·	
B. Individual who reviews and tal	kes responsibili	ty for design activities		
SAM KATSOULAKOS		Firm		
treet address		MICRO CITY EN	SINEERING SERVI	
I.R #1, PO BOX 61			Unit no.	Lot/con.
lunicipality LENCOE	Postal code	Province	E-mail mceng	r@xplornet.com
elephone number	NOL 1M0	ONTARIO		- Cybrornorio
619) 287-2242 Business	Fax number		Cell number	
. Design activities undertaken by	v individual ider	ntified in Section B II	uilding Code Te	hl- 2 5 0 4 . c
		idilod in Occion B. Ja	diding Code 1a	DIE 3.5.2.1. Of
☐ House	☐ HVAC -	House	☑ Building S	tructural
☐ Small Buildings	☐ Building	Services	☐ Plumbing –	
☐ Large Buildings☐ Complex Buildings	☐ Detectio	n, Lighting and Power	☐ Plumbing –	All Buildings
escription of designer's work:	☐ Fire Prof	tection	☐ On-site Sev	wage Systems
SAM KATSOULAKOS (print nan 区 I review and take responsibil C, of the Building Code. I am	lity for the design w	rork on hoholf of a firm re-	eclare that (choose istered under subse propriate classes/ca	
Individual BCIN: <u>260</u> 0			, ,,,,,,,,,,	atogonos.
	91			
Firm BCIN: 2999				
Firm BCIN: 2999 I review and take responsibilit under subsection 3.2.5.of Divi	y for the design an ision C, of the Build	d am qualified in the appro ling Code.	priate category as	an "other designer
☐ I review and take responsibilit under subsection 3.2.5.of Diving Individual BCIN: Basis for exemption from ☐ The design work is exempt from Basis for exemption from	registration:	and qualification requirement		
☐ I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN: Basis for exemption from ☐ The design work is exempt from Basis for exemption from tify that:	registration:om the registration and qu	and qualification requiremental alification:		
☐ I review and take responsibilit under subsection 3.2.5.of Diving Individual BCIN: Basis for exemption from ☐ The design work is exempt from Basis for exemption from	registration: om the registration and que	and qualification requirementalification:		

NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19593-21S

DWG #TAM19620-21S

Schedule 1: Designer Information Use one form for each individual who reviews and takes responsibility for design activities y

Building number, street name:		Application	Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other de	scription	
B. Individual who reviews and t	akoo rooma u u	1	-	
Name	akes responsibili	ity for design activities		en e
SAM KATSOULAKOS		Firm MICPO CITY FU	NEEDING CERVIC	
Street address		I WIICKO CITY ENC	Unit no.	
R.R #1, PO BOX 61			Offic flo.	Lot/con.
Municipality GLENCOE	Postal code	Province	E-mail mcengr	@xplornet.com
Telephone number	N0L 1M0 Fax number	ONTARIO	ł	
(519) 287-2242 Business			Cell number	
C. Design activities undertaken l Division CI	by individual idea	ntified in Section B IB	uilding Code T-1	
	,	idined in Section B. [B	unding Code Tar	ole 3.5.2.1. of
☐ House	☐ HVAC -	· House	Duilding Of	
☐ Small Buildings		Services	Building St □ Plumbing –	ructural
☐ Large Buildings	Detection	n, Lighting and Power	☐ Plumbing —	All Ruildings
☐ Complex Buildings Description of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	vage Systems
	hility for the decian w	vork on hobelf of the	eclare that (choose of the coordinate classes) care of the coordinate classes of the coordinate	
SAM KATSOULAKOS (print na I review and take responsit C, of the Building Code. I ar	hility for the decian w	vork on hobelf of the		
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SAM KATSOULAKOS (print na	bility for the design was qualified, and the second	vork on behalf of a firm reg firm is registered, in the ap d am qualified in the appro ling Code. and qualification requirement	istered under subse propriate classes/ca	ction 3.2.4.of Divis itegories.
(print na (prin	bility for the design we may a qualified, and the magnetic form of the Build of the	vork on behalf of a firm reg firm is registered, in the ap d am qualified in the appro ding Code. and qualification requirementalification:	istered under subse propriate classes/ca	ction 3.2.4.of Divis itegories.
I review and take responsite C, of the Building Code. I and Individual BCIN:	bility for the design we may a qualified, and the model of the design and vision C, of the Build may registration: In registration and queschedule is true to the second of the design and the registration and the registration and queschedule is true to the model of the second of the design and the registration and queschedule is true to the model of the second of	vork on behalf of a firm reg firm is registered, in the ap d am qualified in the appro ding Code. and qualification requirementalification:	istered under subse propriate classes/ca	ction 3.2.4.of Divis itegories.

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4 0044

DWG #TAM19594-21S DWG #TAM19621-21S

Use one form for each individual who A. Project Information Building number, street name:		Application	n number:	
S and on our cot manne;			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other d	escription	
B. Individual who reviews and	takoo rooma			
Name	takes responsibili	ity for design activitie	s	
SAM KATSOULAKOS		Firm		
Street address		MICRO CITY EN	IGINEERING SERVIC	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province		
GLENCOE	NOL 1MO	ONTARIO	E-mail mcengro	@xplornet.com
Telephone number	Fax number	- CHIPATO	Cell number	
(519) 287-2242 Business	ļ			
C. Design activities undertaken Division C]	by individual ider	ofifical in Co. 41 B. W		
Division C]	~yaiviadai idei	imied in Section B. [i	Building Code Tab	le 3.5.2.1. of
☐ House		and the second of the second o	<u></u>	
☐ Small Buildings		House	⊠ Building Str	uctural
☐ Large Buildings	Detection	Services	☐ Plumbing – I	House
☐ Complex Buildings	☐ Detection Detection	n, Lighting and Power	Plumbing - A	All Buildings
Description of designer's work: DYAL PINE HOMES-PROJECT:VALES OF HI EVIEW PRE-ENGINEERED FLOOR S			🛘 On-site Sew	age Systems
, <u>SAM KATSOULAKOS</u>	nma)		leclare that (choose o	ne as appropriate):
	hility for the decian		leclare that (choose o gistered under subsec opropriate classes/cat	
, <u>SAM KATSOULAKOS</u> (print na 区 I review and take responsil C, of the Building Code. I ar	hility for the decian			
I review and take responsil C, of the Building Code. I at Individual BCIN:26	bility for the design w m qualified, and the f			
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DWG #TAM19595-21S DWG #TAM19622-21S

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities.

Building number, street name:		Application	Unit no.	Lot/con.
Municipality	Postal code	Dlan munit		
CITY OF BRAMPTON		Plan number/ other de		
B. Individual who reviews and	l takes responsibili	ty for design activities		
Ivanie		Firm		
SAM KATSOULAKOS Street address		MICRO CITY EN	SINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province	F-mail mcenar	@xplornet.com
GLENCOE Telephone number	NOL 1MO	ONTARIO	L-mail moengr	@xbioriler.com
(519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaker Division Cl	n by individual ider	dified in Coation D. In	<u> </u>	
Division C]	n by marvidual luel	inned in Section B. [B	uilding Code Tal	ole 3.5.2.1. of
☐ House	☐ HVAC -	House	Duitalia O	
☐ Small Buildings		Services	☑ Building St □ Plumbing –	ructural House
☐ Large Buildings ☐ Complex Buildings	Detectio	n, Lighting and Power	☐ Plumbing –	Nuse All Buildings
☐ Complex Buildings escription of designer's work:	☐ Fire Prot	ection	☐ On-site Sev	vage Systems
. Declaration of Designer	NG DESIGNER.	<u>9-01-21</u>). SUPPORTIN	IG STRUCTURE (S) TO BE REVIEW.
. Declaration of Designer SAM KATSOULAKOS	name)	de	eclare that (choose o	one as appropriate
Declaration of Designer SAM KATSOULAKOS (print ☑ I review and take responded to the Building Code. I	name)	de	eclare that (choose o	one as appropriate
☑ I review and take responder. I C, of the Building Code. I	name) sibility for the design w am qualified, and the t	de	eclare that (choose o	one as appropriate
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NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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 DWG #TAM19596-21S

DWG #TAM19623-21S

Schedule 1: Designer Information
Use one form for each individual who reviews and takes responsibility for design at their control of the con

A. Froject information		esponsibility for design active Application		the project.
Building number, street name:		Application	Unit no.	Lot/con.
Municipality				Loucon.
CITY OF BRAMPTON	Postal code	Plan number/ other de	scription	
B. Individual who reviews and tak	es responsibili			· · · · · · · · · · · · · · · · · · ·
Name	ca reaponainiii	Firm		<u> </u>
SAM KATSOULAKOS		1	INEERING SERVI	CES INC
Street address R.R #1, PO BOX 61		orto ori i Ere	Unit no.	Lot/con.
Municipality	Dootsland			
GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail mcengr	@xplornet.com
Telephone number	Fax number	UNTARIO	Cell number	
(519) 287-2242 Business			ł	
C. Design activities undertaken by Division C]	individual ider	ntified in Section B. [B	uilding Code Tal	ble 3.5.2.1. of
☐ House	☐ HVAC -		⊠ Building St	ructural
☐ Small Buildings ☐ Large Buildings		Services	☐ Plumbing –	House
☐ Large Buildings ☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing –	All Buildings
Description of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	vage Systems
REVIEW PRE-ENGINEERED FLOOR SYSTAMARACK LUMBER INC. (SEE DWG #TA AND VERIFED BY QUALIFIED BUILDING D. D. Declaration of Designer I, SAM KATSOULAKOS (print name in a control of the Building Code. I am control of the Building Code.	ESIGNER.	de	eclare that (choose	one as appropriate):
Individual BCIN:2606	4			
Firm BCIN: <u>2999</u> 1	<u> </u>	-		
☐ I review and take responsibility under subsection 3.2.5.of Divis Individual BCIN:		nd am qualified in the appro ding Code.	priate category as a	an "other designer"
Basis for exemption from ro The design work is exempt from Basis for exemption from ro	n the registration	and qualification requireme	nts of the Building (Code.
Certify that: The information contained in this scl I have submitted this application with	nedule is true to the the knowledge a	he best of my knowledge. and consent of the firm.		
Date 9	nn .	ignature of Designer) and the second	
	<i>> y</i> 3	ignature or Designer		

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19597-21S

DWG #TAM19624-21S

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities.

	1 e:		number:	
N/Lunia in a lit			Unit no.	Lot/con.
Municipality CITY OF BRAMPTO	Postal code	The state of the s		
B. Individual who review	s and takes responsibi	lity for design activities		
Ivallie		Firm		
SAM KATSOULAKOS Street address		MICRO CITY EN	GINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province	E mail management	
GLENCOE	NOL 1MO	ONTARIO	E-mail meeng	r@xplornet.com
Telephone number (519) 287-2242 Business	Fax number		Cell number	•
C. Design activities unde Division C1	rtaken by individual ide	entified in Section B. II	Puilding Code Te	hl- 0 F 0 4 - 5
Division C]	ya.viada, jac	muned in Section B. [c	building Code Ta	ble 3.5.2.1. of
☐ House	☐ HVAC	– House	⊠ Building S	tructural
☐ Small Buildings	☐ Building	g Services	☐ Plumbing –	House
☐ Large Buildings ☐ Complex Buildings	☐ Detecti	on, Lighting and Power	☐ Plumbing –	All Buildinas
☐ Complex Buildings Description of designer's work:	☐ Fire Pro	otection	☐ On-site Sev	wage Systems
SAM KATSOULAKOS	(print name)		eclare that (choose	one as appropriate
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DWG #TAM19598-21S DWG #TAM19625-21S

Building number, street name:		Application		
			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other de	<u>-</u>	
B. Individual who reviews and i	akes responsibili	tv for design activities		
varne		Firm	<u>kati ortisti i sagina ost tioo os</u>	
SAM KATSOULAKOS Street address		MICRO CITY EN	SINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
elephone number 519) 287-2242 Business	Fax number		Cell number	
Design activities undertaken	by individual ider	ntified in Section B. [E	Building Code Tal	ble 3.5.2.1 of
Triolon oj				210 0.0.2.1. 01
☐ House	☐ HVAC -		⊠ Building St	tructural
☐ Small Buildings	☐ Building	Services	☐ Plumbing –	- House
☐ Large Buildings ☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing —	All Buildings
☐ Complex Buildings escription of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	wage Systems
Declaration of Designer				
	ama)	d	eclare that (choose	one as appropriate
SAM KATSOULAKOS (print n 区 I review and take responsi C, of the Building Code. I a	bility for the design v	vork on hehalf of a firm roa	iotorodunatana t	
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NOTE:

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DWG #TAM19599-21S DWG #TAM19626-21S

Building number, street name:		Application	A CONTRACTOR OF THE SECOND SECOND	
N			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other d	escription	
B. Individual who reviews and	takes responsibili	 		-
Name	ranco responsibili	ty for design activitie	<u>S</u>	
SAM KATSOULAKOS		Firm		
Street address		MICRO CITY EN	GINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province		
GLENCOE	NOL 1MO	ONTARIO	E-mail mcengr	@xplornet.com
Telephone number	Fax number	OTTAINO	Cell number	
(519) 287-2242 Business		•	f	
C. Design activities undertaken Division C]	by individual ider	tisiad :- 0 (; = -		
Division C]	~y marvidual idei	itilied in Section B. [F	Building Code Tab	ole 3.5.2.1. of
☐ House	<u>and the second of the second </u>			
☐ Small Buildings	☐ HVAC –		☑ Building Str	ructural
☐ Large Buildings	☐ Building	Services	☐ Plumbing –	House
☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing – A	All Buildings
escription of designer's work:	☐ Fire Prot		☐ On-site Sew	/age Systems
OYAL PINE HOMES-PROJECT: VALES OF HEVIEW PRE-ENGINEERED FLOOR S MARACK LUMBER INC. (SEE DWG	LIMPED MODELL			
. Declaration of Designer				
SAM KATSOULAKOS		d	eclare that (choose o	
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l P. M. Amani	m qualified, and the f	irm is registered, in the ap	iistered under subsec propriate classes/cat	
Individual BCIN:26		irm is registered, in the ap	istered under subsec propriate classes/cat	
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Individual BCIN:	991 ility for the design and ivision C, of the Building registration:	d am qualified in the approing Code.	propriate classes/cal	ction 3.2.4.of Division tegories. n "other designer"
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DWG #TAM19600-21S DWG #TAM19627-21S

Building number, street name: Municipality		Application	THE PROPERTY OF THE PROPERTY O	
			Unit no.	Lot/con.
CITY OF BRAMPTON	Postal code	Plan number/ other de	*	
B. Individual who reviews and ta	kes responsibili	ty for design activities	Property property and the con-	
Name	• • • • • • • • • • • • • • • • • • • •	Firm	<u>California (vali siyony fiahyoni)</u>	
SAM KATSOULAKOS Street address			GINEERING SERVI	ICES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Telephone number [519] 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken b	y individual ider	ntified in Section B. [E	 Building Code Ta	ble 3.5.2.1. of
Maion of				
☐ House ☐ Small Buildings	☐ HVAC -		☑ Building S	tructural
☐ Small Buildings ☐ Large Buildings		Services	☐ Plumbing -	- House
☐ Complex Buildings	☐ Detectio	n, Lighting and Power	☐ Plumbing –	· All Buildings
escription of designer's work:	☐ Fire Pro	tection	🛘 On-site Se	wage Systems
Declaration of Designer				
SAM KATSOULAKOS		d	colors that (shares	
			eciale that (choose	one as appropriate
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☑ I review and take responsibi C, of the Building Code. I am	lity for the design v qualified, and the	vork on behalf of a firm red	gietered under aube	ootion 2.0.4 s.ED: ::
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NOTE:

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DWG #TAM19601-21S DWG #TAM19628-21S Schedule 1: Designer Information

Use one form for each individual who reviews and takes represent the formation and takes represent the formation.

Dunung number, Street name.		Application	numper:	불마리 기존 등에 걸 보다.
Building number, street name:			Unit no.	Lot/con.
Municipality OF BRAMPTON	Postal code	Plan number/ other de	scription	
B. Individual who reviews and take				
B. Individual who reviews and take Name	s responsibil	ity for design activities		
SAM KATSOULAKOS		Firm MICPO CITY EN	SINEEDING SEDVI	0F0 III.0
Street address		INICKO CITT ENG	Unit no.	Lot/con.
R.R #1, PO BOX 61 Municipality		T		Loucon.
GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail mcengi	@xplornet.com
Telephone number	Fax number	ONTARIO	Cell number	
(519) 287-2242 Business			i	
C. Design activities undertaken by Division C]	individual ide	ntified in Section B. [E	uilding Code Ta	ble 3.5.2.1. of
☐ House	☐ HVAC-	- House	☑ Building St	tructural
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	☐ Plumbing –	House
☐ Complex Buildings	☐ Detection ☐ Fire Pro	on, Lighting and Power	☐ Plumbing –	All Buildings
Description of designer's work: YAL PINE HOMES-PROJECT:VALES OF HUMB EVIEW PRE-ENGINEERED ELOOP SYSTEM OF THE PROJECT OF TH			☐ On-site Sev	wage Systems
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NOTE:

- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19602-21S DWG #TAM19629-21S

Building number, street name:			on number: Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other	description	
CITY OF BRAMPTON				
B. Individual who reviews and t	akes responsibili	ity for design activiti	es	
SAM KATSOULAKOS		Firm MICRO CITY F	NGINEERING SERVI	OEO INO
Street address		MINORO CITTE	Unit no.	Lot/con.
R.R #1, PO BOX 61 Municipality	Postal code	15		
GLENCOE	NOL 1M0	Province ONTARIO	E-mail mcengr	@xplornet.com
Telephone number (519) 287-2242 Business	Fax number	OWANIO	Cell number	
C. Design activities undertaken Division C]	by individual ider	ntified in Section B.	Building Code Tal	ble 3.5.2.1. of
☐ House	☐ HVAC -	- House	⊠ Building St	ructural
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	☐ Plumbing —	House
☐ Large Buildings ☐ Complex Buildings	☐ Detectio	n, Lighting and Power	☐ Plumbing – .	All Buildings
rescription of designer's work: YAL PINE HOMES-PROJECT:VALES OF HIS EVIEW PRE-ENGINEERED ELOOP S			☐ On-site Sev	
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D. Declaration of Designer , SAM KATSOULAKOS (print na (print n	ame) bility for the design w m qualified, and the	work on bobolf of a firm	_declare that (choose	one as appropriate
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D. Declaration of Designer SAM KATSOULAKOS (print na (print na)	ame) bility for the design w m qualified, and the 064 991 ility for the design an ivision C, of the Build m registration: rom the registration and qu schedule is true to the	vork on behalf of a firm refirm is registered, in the application of a qualification requirestablification:	declare that (choose of the declare that (choose of the Building (one as appropriate ction 3.2.4.of Divising tegories.

NOTE:

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DWG #TAM19603-21S

DWG #TAM19630-21S

Schedule 1: Designer Information

Use one form for each individual who reviews and takes recognishing to the second secon

Building number, street name:			Unit no.	Lot/con.
Municipality	Postal code	Dian number / (I		
CITY OF BRAMPTON	I	Plan number/ other		
B. Individual who reviews and tak	es responsibili	v for design activiti	06	
		Firm		<u> Paragonal de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición dela composició</u>
SAM KATSOULAKOS Street address			NGINEERING SERVI	CES INC
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province		
GLENCOE	NOL 1MO	ONTARIO	E-mail mcengr	@xplornet.com
Telephone number (519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken by Division C]	individual iden	tified in Section B.	Building Code Tak	ole 3.5.2.1. of
☐ House	☐ HVAC -	House	I⊽I D.:III: O	
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	Building Stage □ Plumbing –	ructural House
☐ Large Buildings☐ Complex Buildings	Detection	i, Lighting and Power	☐ Plumbing —	Πouse ΔII Ruildings
escription of designer's work:	☐ Fire Prote	ection	☐ On-site Sew	vage Systems
Declaration of Designer	DESIGNER.	.: 4504-ELEV.A-2ND FLOO T DRAWINGS AND LA' D <u>9-01-21</u>). SUPPORT	ING STRUCTURE (S) TO BE REVIEW
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Declaration of Designer SAM KATSOULAKOS (print name	pesigner. be b	ork on behalf of a firm remaining code.	declare that (choose of gistered under subsection peropriate classes/car	one as appropriate ction 3.2.4.of Divistegories.
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NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19604-21S DWG #TAM19631-21S

Schedule 1: Designer Information Use one form for each individual who reviews and takes responsibility for design activities with respect to the

A. Project Information	<u>- 12 12 13 14 15 16 16 16 16 16 16 16</u>	Application		the project.
Building number, street name:	<u>. 1.60° 1. (1.40°.) (1.186°. \$5.55°</u>	Application	Unit no.	Lot/con.
Municipality	T**	 	0	Loucon.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other de	scription	
B. Individual who reviews and takes	reenoncibili			
Name	s responsibili	Firm	<u> </u>	<u> </u>
SAM KATSOULAKOS			INEERING SERVI	CEC INC
Street address		I IIIONO OTTI LIN	Unit no.	Lot/con.
R.R #1, PO BOX 61 Municipality				200001
GLENCOE	Postal code NOL 1M0	Province	E-mail mcengr	@xplornet.com
Telephone number	Fax number	ONTARIO	Cell number	
(519) 287-2242 Business			Cell Humber	
C. Design activities undertaken by in	ndividual idei	ntified in Section B IB	Lilding Code Tel	No 2 E 2 4 of
Division C]		imod in occion D. [D	unding code rai	Jie 3.3.2.1. OI
☐ House	☐ HVAC -	- House	⊠ Building St	ructural
☐ Small Buildings	□ Building	Services	☐ Plumbing –	House
☐ Large Buildings	Detection	n, Lighting and Power	☐ Plumbing – .	All Buildings
☐ Complex Buildings Description of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	vage Systems
D. Declaration of Designer I, SAM KATSOULAKOS (print name) 区 I review and take responsibility C, of the Building Code. I am qu	for the design valified, and the	work on hehalf of a firm red	istared under cubes	one as appropriate): ction 3.2.4.of Divisior ategories.
Individual BCIN: <u>26064</u>				
Firm BCIN: <u>29991</u>				
☐ I review and take responsibility f under subsection 3.2.5.of Division Individual BCIN:	or the design ar	nd am qualified in the approding Code.	opriate category as a	an "other designer"
Basis for exemption from re The design work is exempt from Basis for exemption from re	the registration	1100	ents of the Building	Code.
certify that:				
 The information contained in this sche I have submitted this application with 	edule is true to t the knowledge	the best of my knowledge. and consent of the firm.		
Date Page 11	oM s	Signature of Designer	2	

NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19605-21S DWG #TAM19632-21S

Building number, street name:			number: Unit no.	Lot/con.
Municipality	Postal and	I Di		
CITY OF BRAMPTON	Postal code	,	· ·	
B. Individual who reviews and ta	kes responsibil	ity for design activitie	S	
name		Firm		
SAM KATSOULAKOS Street address		MICRO CITY EN	GINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail mcenq	r@xplornet.com
GLENCOE Telephone number	NOL 1MO	ONTARIO		
(519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken b Division C]	y individual ide	ntified in Section B. [Building Code Ta	ble 3.5.2.1. of
☐ House	☐ HVAC -		⊠ Building S	tructural
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	☐ Plumbing –	- House
☐ Complex Buildings	☐ Detection ☐ Fire Pro	on, Lighting and Power	☐ Plumbing —	All Buildings
escription of designer's work: YAL PINE HOMES-PROJECT:VALES OF HU				wage Systems
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NOTE:

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DWG #TAM19606-21S DWG #TAM19633-21S

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Building number, street name:		Application	action activities with respect to n number:	
B.R.			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	description	
B. Individual who reviews and ta				
Name	kes responsibili	ity for design activiti	es	
SAM KATSOULAKOS		Firm		
Street address		IVIICRO CITY E	NGINEERING SERVICE	
R.R #1, PO BOX 61 Municipality			Unit no.	Lot/con.
GLENCOE	Postal code	Province	E-mail mcengr	@xplornet.com
elephone number	NOL 1MO	ONTARIO	1	@xpioiner.com
519) 287-2242 Business	Fax number		Cell number	
Design activities undertaken b	u indicide-111			
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☐ House	<u>and the second </u>		<u> </u>	
☐ Small Buildings	☐ HVAC – ☐ Building		☑ Building Str	ructural
☐ Large Buildings	☐ Building	Services	☐ Plumbing – I	House
☐ Complex Buildings	☐ Detectio	n, Lighting and Power	☐ Plumbing – A	All Buildings
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DWG #TAM19607-21S DWG #TAM19634-21S

Schedule 1: Designer Information

Use one form for each individual who reviews and takes represent the formation and takes represent the formation.

Building number, street name:		Application	Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other de	scription	
CITY OF BRAMPTON		· ·	-	
B. Individual who reviews and tal Name	ces responsibili	ty for design activities		
SAM KATSOULAKOS		Firm		
Street address	·	MICRO CITY EN	SINEERING SERVI	
R.R #1, PO BOX 61		•	Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	F-mail mooner	@xplornet.com
Telephone number	NOL 1MO	ONTARIO	_ mail incerigi	@xpiornet.com
(519) 287-2242 Business	Fax number		Cell number	
	(individual ida-	are		
C. Design activities undertaken by Division C]	mulviduai idei	itified in Section B. [B	uilding Code Tal	ole 3.5.2.1. of
☐ House	☐ HVAC -		<u> 1 </u>	
☐ Small Buildings		House Services	Building St □	ructural
☐ Large Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing —	House
☐ Complex Buildings	☐ Fire Pro	ection	☐ Plumbing – , ☐ On-site Sev	All Buildings
Description of designer's work: PYAL PINE HOMES—PROJECT: VALES OF HUM EVIEW PRE-ENGINEERED FLOOR SYS			U On-site Sev	vage systems
. Declaration of Designer	DESIGNER.	ED <u>9-01-21</u>). SUPPORTIN		S) TO BE REVIEW
. Declaration of Designer	e)	de la	eclare that (choose o	one as appropriate
Declaration of Designer SAM KATSOULAKOS (print nam	e) ty for the design w qualified, and the t	de la	eclare that (choose o	one as appropriate)
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- For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19608-21S

DWG #TAM19635-21S

Municipality CITY OF BRAMPTON			Unit no.	Lot/con.
	Postal code	Plan number/ other de	scription	
3. Individual who reviews and to	Loo was seen		-	
B. Individual who reviews and ta	kes responsibil	ity for design activities		
SAM KATSOULAKOS		Firm MICPO CITY FNO	SINEERING SERVI	000 1110
Street address		INICKO CITTENC	Unit no.	Lot/con.
R.R #1, PO BOX 61 //unicipality			Grace no.	Loucon.
GLENCOE	Postal code	Province	E-mail mcengr	@xplornet.com
elephone number	NoL 1M0 Fax number	ONTARIO	Cell number	
519) 287-2242 Business	•		.	
. Design activities undertaken b	y individual ide	ntified in Section B. [B	uilding Code Tal	ble 3.5.2.1. of
☐ House	☐ HVAC-	- House	⊠ Building St	ruotural
☐ Small Buildings	☐ Building	Services	☐ Plumbing –	House
☐ Large Buildings ☐ Complex Buildings	☐ Detection	on, Lighting and Power	☐ Plumbing –	All Buildings
☐ Complex Buildings escription of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	vage Systems
SAM KATSOULAKOS		de	eclare that (choose	
(print nan 区 I review and take responsibi C, of the Building Code. I am	lity for the design v	Work on behalf of a firm roa	iotoro d under este	
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I review and take responsible C, of the Building Code. I am Individual BCIN:	ility for the design value qualified, and the design are sistential control of the Buil registration:	work on behalf of a firm reg firm is registered, in the ap in the ap in the appropriate and am qualified in the appropriate Code.	istered under subse propriate classes/ca	ection 3.2.4.of Divisi ategories. an "other designer"
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NOTE

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19609-21S DWG #TAM19636-21S

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DUUUING BUMBAR etroot sama:		Application	ctivities with respect to n number:	
Building number, street name:			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	=	
B. Individual who reviews and ta	kes responsibili	ity for design activiti	00	
INAILIE		Firm	63	
SAM KATSOULAKOS			NGINEERING SERV	ICES INC
Street address R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Felephone number 519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken b Division CI	v individual ide	atified in Section D	[D.::Ld:	11. 4 - 4 - 4
Division C]	y marriadai idei	ianea in Section B.	[Building Code 1a	ble 3.5.2.1. of
☐ House	☐ HVAC -	- House	∇ p "" •	
☐ Small Buildings		Services	⊠ Building S	Structural
☐ Large Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing -	- House
☐ Complex Buildings	☐ Fire Pro	tection	☐ Plumbing –	· All Buildings
escription of designer's work:	<u> </u>	tection	Li On-site Se	wage Systems
Declaration of Docionor				
SAM KATSOULAKOS	ma)		_declare that (choose	one as appropriate)
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SAM KATSOULAKOS (print nate of the Building Code. I are	ility for the design variation (he) 1064 1091	and qualification required the best of my knowledge.	egistered under subso appropriate classes/o propriate category as ments of the Building	ection 3.2.4.of Divisi ategories. an "other designer"
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NOTE:

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DWG #TAM19610-21S DWG #TAM19637-21S

A. Project Information Building number, street name:		Applicatio	A service of the serv	
Municipality		<u></u>	Unit no.	Lot/con.
CITY OF BRAMPTON	Postal code	The state of the s		
B. Individual who reviews and tak	es responsibil	ity for design activiti		
Hamo		Firm		<u> 1877-yan da araba d</u>
SAM KATSOULAKOS Street address		MICRO CITY E	IGINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	E-mail mceng	@xplornet.com
Telephone number	NoL 1M0 Fax number	ONTARIO		
(519) 287-2242 Business			Cell number	
C. Design activities undertaken by Division C]	<u>, na katabang ng Jaking Sa</u>		Building Code Tal	ole 3.5.2.1. of
☐ House☐ Small Buildings	☐ HVAC -		⊠ Building St	ructural
☐ Large Buildings	☐ Building ☐ Detection	Services	☐ Plumbing –	House
☐ Complex Buildings	☐ Fire Pro	n, Lighting and Power	☐ Plumbing –	All Buildings
Description of designer's work: DYAL PINE HOMES-PROJECT:VALES OF HUME EVIEW PRE-ENGINEERED FLOOR SYS			☐ On-site Sev	vage Systems
	ESIGNER.	ED <u>9-01-21</u>). SUPPORT	ING STRUCTURE (S) TO BE REVIEWE
D. Declaration of Designer	ESIGNER.	vork on habalf of a C	declare that (choose	one as appropriate):
D. Declaration of Designer , SAM KATSOULAKOS (print name) I review and take responsibility	ESIGNER. b) y for the design volualified, and the	vork on habalf of a C	declare that (choose	one as appropriate):
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DWG #TAM19611-21S DWG #TAM19638-21S

Schedule 1: Designer Information
Use one form for each individual who reviews and takes respectivity.

Building number, street name:			tion number: Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other		
CITY OF BRAMPTON	1	The state of the s		
B. Individual who reviews and tak	es responsibil	ity for design activ	ities	
Name SAM KATSOULAKOS		Firm		
Street address	· · · · · · · · · · · · · · · · · · ·	MICRO CITY	ENGINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	E-mail mceng	r@xplornet.com
Telephone number	NOL 1M0 Fax number	ONTARIO		-@xpiornet.com
(519) 287-2242 Business			Cell number	
C. Design activities undertaken by Division Cl	individual ide	ntified in Section P	IDuilding O. J. 77	
		numed in Section B	. Ipuliding Code Tal	ble 3.5.2.1. of
☐ House	☐ HVAC-	- House	⊠ Building St	tructural
☐ Small Buildings☐ Large Buildings	Building	Services	☐ Plumbing	House
☐ Carge Buildings ☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing —	All Buildinas
escription of designer's work:	☐ Fire Pro	tection	☐ On-site Sev	vage Systems
	DESIGNER.			
	e)	volt on habits of a	declare that (choose	one as appropriate
SAM KATSOULAKOS (print name) I review and take responsibility	e) ty for the design v qualified, and the	volt on habits of a	declare that (choose	
☑ I review and take responsibilit C, of the Building Code. I am o	e) ty for the design v qualified, and the	volt on habits of a	declare that (choose	one as appropriate
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SAM KATSOULAKOS (print name	e) ty for the design v qualified, and the for the design an ion C, of the Build egistration: n the registration a egistration and qu nedule is true to the	vork on behalf of a firm firm is registered, in the adding Code. and qualification requinalification:	declare that (choose of registered under subset the appropriate classes/cate) peropriate category as a rements of the Building (one as appropriate ction 3.2.4.of Divis ategories.
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NOTE

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DWG #TAM19612-21S DWG #TAM19639-21S ario.

Use one form for each individual who A. Project Information Building number, street name:		Application	i numper:	
			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	The state of the s	escription	
B. Individual who reviews and	takes responsibil	ity for docing		
	- reoponsibil	Firm	S	
SAM KATSOULAKOS		1	1011	
Street address		INICKO CITY EN	IGINEERING SERVIC	
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	E mail maan an	<u> </u>
Telephone number	NOL 1MO	ONTARIO	E-mail mcengr	@xpiornet.com
519) 287-2242 Business	Fax number		Cell number	
			1	
C. Design activities undertaken Division C]	by individual idea	itified in Section B	Building Code T-L	1 0 7 0
Jivision C]			building code Tab	le 3.5.2.1. of
☐ House	☐ HVAC -	. House		
☐ Small Buildings		Services	☑ Building Str	uctural
☐ Large Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing — I	House
☐ Complex Buildings	☐ Fire Pro	tection	☐ Plumbing – A	All Buildings
escription of designer's work: YAL PINE HOMES-PROJECT:VALES OF HI VIEW PRE-ENGINEERED FLOOR S			☐ On-site Sew	age Systems
SAM KATSOULAKOS	eme)		leclare that (choose o	ne as appropriate)
	hility for the dealer			
SAM KATSOULAKOS (print na I review and take responsil C, of the Building Code. I an	hility for the dealer			
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SAM KATSOULAKOS (print na (prin	oility for the design was qualified, and the following the following the following the design on the design of the	rork on behalf of a firm regimm is registered, in the ap	gistered under subsec propriate classes/cat	ction 3.2.4.of Divisi degories.
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SAM KATSOULAKOS (print na	oility for the design wan qualified, and the following design and the following for the design and vision C, of the Build on registration:	rork on behalf of a firm regirm is registered, in the appropriate am qualified in the appropriate Code.	gistered under subsec opropriate classes/cat	etion 3.2.4.of Divisi regories. n "other designer"
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NOTE

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DWG #TAM19613-21S DWG #TAM19640-21S of Ontario.

		Application	Unit no.	
8/humining life			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other de		
B. Individual who reviews and	akes responsibili	<u> </u>		
Name	akes responsibili	ty for design activities	<u>3 </u>	
SAM KATSOULAKOS		Firm	011111111111111111111111111111111111111	
Street address		I WIICRO CITY EN	GINEERING SERVI	
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	E-mail mceng	@xplornet.com
Telephone number	NOL 1MO	ONTARIO	- man moong.	@xpiomet.com
(519) 287-2242 Business	Fax number		Cell number	
			·	
C. Design activities undertaken Division C]	by individual ider	itified in Section B. [E	Building Code Tal	ole 3.5.2.1 of
	<u>. A. A.</u>		<u> </u>	0.0 0.0.2.7. 01
☐ House ☐ Small Buildings	☐ HVAC -		⊠ Building St	ructural
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	☐ Plumbing –	House
☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing –	All Buildings
Description of designer's work:	☐ Fire Prot	ection	☐ On-site Sev	vage Systems
YAL PINE HOMES-PROJECT:VALES OF HIEVIEW PRE-ENGINEERED FLOOR S'MARACK LUMBER INC. (SEE DWG #	IMPER NORTH MODE			
. Declaration of Designer				
SAM KATSOULAKOS		d	eclare that (choose	one as appropriate)
(print no control of the Building Code. I a	hility for the decian w	ork on behalf of a firm reg irm is registered, in the ap	istered under subse propriate classes/ca	ction 3.2.4.of Division
Individual BCIN: <u>26</u>	064			
	991			
	991	d am qualified in the approing Code.	priate category as a	n "other designer"
Firm BCIN: 29 I review and take responsible under subsection 3.2.5.of Display Individual BCIN: Basis for exemption from The design work is exempt for	lity for the design and vision C, of the Build no registration:	and qualification requirement		
Firm BCIN: 29 I review and take responsible under subsection 3.2.5.of Display Individual BCIN: Basis for exemption from The design work is exempt for Basis for exemption from	lity for the design and vision C, of the Build no registration:	and qualification requirement		
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DWG #TAM19614-21S

DWG #TAM19641-21S

Building number, street name: Municipality CITY OF BRAMPTON		, oppioacion	number:	
CITY OF BRAMPTON			Unit no.	Lot/con.
P Individual	Postal code	Plan number/ other de		
D. Individual WNO reviews and fa	kes responsibili		e in the decision of the con-	
B. Individual who reviews and ta	ico responsibili	ty for design activities		
SAM KATSOULAKOS		Firm MICRO CITY FAC	OMEEDING OFFI	
Street address R.R #1, PO BOX 61		MIORO CITT EN	Unit no.	Lot/con.
Municipality	Postal code	Province	_	
ELENCOE	NOL 1MO	ONTARIO	E-mail mcengi	@xplornet.com
elephone number 519) 287-2242 Business	Fax number		Cell number	
			Į.	
C. Design activities undertaken by Division Cl	y individual iden	tified in Section B. [B	uilding Code Tal	ole 3.5.2.1 of
	<u></u>		maning codo ra	010 0.0.2.1.01
☐ House	☐ HVAC -	House	⊠ Building St	ructural
☐ Small Buildings	☐ Building	Services	☐ Plumbing –	
☐ Large Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing —	Tiouse ΔII Ruildinas
☐ Complex Buildings escription of designer's work:	☐ Fire Prot	ection	☐ On-site Sev	rai Dullulligs
AL PINE HOMES-PROJECT: VALES OF HUMBER VIEW PRE-ENGINEERED FLOOR SYS MARACK LUMBER INC. (SEE DWG #T.	NORTH MODEL 4504	El 1104		
Declaration of Designer SAM KATSOULAKOS				
(print nan		de	eclare that (choose	one as appropriate
区 I review and take responsibil C, of the Building Code. I am	lity for the decian w	ork on behalf of a firm regi irm is registered, in the ap	stered under subse propriate classes/ca	ction 3.2.4.of Divis ttegories.
	6.4			
Individual BCIN:260	04			
Individual BCIN: <u>2600</u> Firm BCIN: <u>2999</u>				
	of the design and	d am qualified in the approing Code.	priate category as a	ın "other designer"
Firm BCIN: 2999 I review and take responsibilit under subsection 3.2.5.of Divi Individual BCIN: Basis for exemption from The design work is exempt fro	y for the design and sion C, of the Build registration:	and qualification requirement		
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- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19615-21S DWG #TAM19642-21S

Building number, street name:		esponsibility for design ac Application	number:	
building number, street name:			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other d	•	
B. Individual who reviews and ta	kes responsibili	tv for design activitie	<u> </u>	-
Ivaille	<u>riusi kang atau saharangan di di Pi</u>	Firm	The second secon	
SAM KATSOULAKOS Street address		MICRO CITY EN	GINEERING SERV	ICES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code NOL 1M0	Province ONTARIO	E-mail mceng	r@xplornet.com
Telephone number (519) 287-2242 Business	Fax number		Cell number	,
C. Design activities undertaken b Division C]	y individual ider	ntified in Section B. [Building Code Ta	ble 3.5.2.1. of
☐ House	<u>and the second of the second </u>			
☐ House ☐ Small Buildings	☐ HVAC -		■ Building S	Structural
☐ Large Buildings		Services	☐ Plumbing -	- House
☐ Complex Buildings	☐ Detection	n, Lighting and Power	☐ Plumbing –	- All Buildings
Description of designer's work:	<u></u>	tection	⊔ On-site Se	wage Systems
	•			
	•			
I, <u>SAM KATSOULAKOS</u>			declare that (choose	one as appropriate)
	ility for the design v	work on behalf of a firm ro	giotoro d under entre	
I, <u>SAM KATSOULAKOS</u> (print na 区 I review and take responsib	vility for the design van qualified, and the	work on behalf of a firm ro	giotoro d under entre	e one as appropriate): ection 3.2.4.of Divisionategories.
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NOTE:

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4 0044

DWG #TAM19616-21S DWG #TAM19643-21S

Building number, street name:		Application	activities with respect to on number:	
			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	110011001101	description	
B. Individual who reviews and to Name	akes responsibili	4.7 (2.1 2) 2.1		
	and responsibili	ity for design activit	es	
SAM KATSOULAKOS		Firm	11011	
Street address		IVIICRO CITY E	NGINEERING SERVI	
R.R #1, PO BOX 61 Municipality			Unit no.	Lot/con.
GLENCOE	Postal code	Province	F-mail mcanar	@xplornet.com
Telephone number	NOL 1MO	ONTARIO	1	wybioinet.com
(519) 287-2242 Business	Fax number		Cell number	
C. Design activities undertaken b Division C]	by individual ider	ntified in Section B.	Building Code Tab	10 3 5 2 1 05
☐ House			. Journal	7.C 0.0.2.1. 01
☐ Small Buildings	☐ HVAC -		⊠ Building Str ■ ■ ■ ■ ■ ■ ■	uctural
☐ Large Buildings	☐ Building	Services	☐ Plumbing —	ucturai
☐ Complex Buildings	☐ Detection	n, Lighting and Power		⊓ouse \II Buildings
Description of designer's work:	☐ Fire Prot	tection	☐ On-site Sew	ano Systems
). Declaration of Designer	DESIGNER.	-D <u>3-01-21</u>). SUPPOR	IING STRUCTURE (S)	OM-NOT LOT SPECIFI LAN SUPPLIED B TO BE REVIEWE
AMARACK LUMBER INC. (SEE DWG #T ND VERIFED BY QUALIFIED BUILDING D. Declaration of Designer , SAM KATSOULAKOS (print name) I review and take responsib C, of the Building Code. I am	me)		declare that (choose o	ne as appropriate)
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D. Declaration of Designer , SAM KATSOULAKOS (print name of the Political Code. I ame of the Politica	me) ility for the design w n qualified, and the f		declare that (choose o	ne as appropriate)
D. Declaration of Designer , SAM KATSOULAKOS (print nail I review and take responsib C, of the Building Code. I am	me) ility for the design w n qualified, and the f	ork on behalf of a firm refirm is registered, in the a	declare that (choose o	ne as appropriate) tion 3.2.4.of Divisiegories.
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- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d) of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
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DWG #TAM19617-21S DWG #TAM19644-21S Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities were considered.

Municipality			Unit no.	Lot/con.
	Postal code	Plan number/ attack		
CITY OF BRAMPTON	1	Plan number/ other de	escription	
B. Individual who reviews and t	akes responsibili	ty for design activities	3	
SAM KATSOULAKOS		Firm		
Street address		MICRO CITY EN	GINEERING SERVI	CES INC.
R.R #1, PO BOX 61			Unit no.	Lot/con.
Municipality GLENCOE	Postal code	Province	E mail maan	
Telephone number	NOL 1MO	ONTARIO	L-mail meengr	@xplornet.com
(519) 287-2242 Business	Fax number		Cell number	
	by individual 1.			
C. Design activities undertaken l Division C]	by ilidividual iden	itified in Section B. [E	Building Code Tal	ole 3.5.2.1. of
☐ House	☐ HVAC -			
☐ Small Buildings		Services	☑ Building St	ructural
Large Buildings	Detection	n, Lighting and Power	☐ Plumbing –	House
☐ Complex Buildings	☐ Fire Prot	ection	☐ Plumbing — /	All Buildings
escription of designer's work: YAL PINE HOMES-PROJECT:VALES OF HUMBE EVIEW PRE-ENGINEERED FLOOR SY			☐ On-site Sew	vage Systems
SAM KATSOULAKOS				
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NOTE:

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DWG #TAM19618-21S DWG #TAM19645-21S

A. Project Information Building number, street name:		Applicati	on number:	
	_		Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other	description	
B. Individual who reviews and to				
B. Individual who reviews and ta	ikes responsibili	ty for design activit	ies	
SAM KATSOULAKOS		Firm MICPO CITY	NONEEDING CONT.	
Street address		I WIICKO CITY E	Unit no.	
R.R #1, PO BOX 61 Municipality			Office 110.	Lot/con.
GLENCOE	Postal code NOL 1M0	Province	E-mail mceng	r@xplornet.com
Telephone number	Fax number	ONTARIO		
(519) 287-2242 Business	1		Cell number	
C. Design activities undertaken b Division C]	y individual ider	ntified in Section B	Building Code Tel	hl- 0 5 0 4 . 6
			Induduid Code 18	DIE 3.5.2.1. Of
☐ House	☐ HVAC -		⊠ Building St	tructural
☐ Small Buildings ☐ Large Buildings	☐ Building	Services	☐ Plumbing –	House
☐ Complex Buildings	☐ Detectio	n, Lighting and Power	☐ Plumbing –	All Buildings
escription of designer's work:	☐ Fire Prof	tection	☐ On-site Sev	vage Systems
Declaration of Designer	DESIGNER.	T DRAWINGS AND LA		TO BE REVIEW
. Declaration of Designer SAM KATSOULAKOS (print national like responsible of the control of t	me)	tork on balant of a	_declare that (choose	one as appropriate)
. Declaration of Designer SAM KATSOULAKOS	me) ility for the design w n qualified, and the f	tork on balant of a	_declare that (choose	S) TO BE REVIEWE
Declaration of Designer SAM KATSOULAKOS (print nance) I review and take responsib C, of the Building Code. I arr	me) ility for the design w n qualified, and the f	tork on balant of a	_declare that (choose	one as appropriate)
Declaration of Designer SAM KATSOULAKOS (print nar	me) ility for the design was qualified, and the foliations of the foliations of the foliations of the foliations of the design and the foliations of the fol	ork on behalf of a firm rirm is registered, in the	_declare that (choose of the control	one as appropriate; ction 3.2.4.of Divisi
Declaration of Designer SAM KATSOULAKOS (print nation of the Building Code. I are Individual BCIN: 260 Firm BCIN: 299 ☐ I review and take responsibility under subsection 3.2.5.of Div Individual BCIN: Basis for exemption from ☐ The design work is exempt from Basis for exemption from	me) ility for the design was qualified, and the following the following the following the following the following the registration: me)	ork on behalf of a firm rairm is registered, in the dam qualified in the apling Code.	_declare that (choose of the choose of the Building (one as appropriate) ction 3.2.4.of Divisi ategories. an "other designer"
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DWG #TAM19619-21S DWG #TAM19646-21S

NORDIC STRUCTURES

COMPANYJuly 19, 2021 13:12

PROJECT
J10 1ST FLOOR.wwb

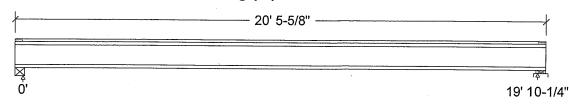
Design Check Calculation Sheet

Nordic Sizer - Canada 8.0

Loads:

Load	Type	Distribution	Pat-	Location	[ft]	Magnitu	de	Unit
			tern	Start	End	Start	End	
Load1	Dead	Full Area				20.00		psf
Load2	Live	Full Area				40.00		psf

Maximum Reactions (lbs) and Support Bearing (in):



Unfactored: Dead Live Factored:	199 397	199 397
Total	844	844
Bearing:		
Capacity		
Joist	2336	2336
Support	9686	10841
Des ratio	,	1
Joist	0.36	0.36
Support	0.09	0.08
Load case	#2	#2
Length	4-1/2	4-3/8
Min req'd	1-1/2	1-1/2
Stiffener	No	No
KD	1.00	1.00
KB support	1.00	1.00
fcp sup	769	769
Kzcp sup	1.00	1.15

*Minimum bearing length for joists is 1-1/2" for exterior supports

Nordic Joist 11-7/8" NI-80 Floor joist @ 12" o.c.

Supports: 1 - Lumber Beam, No.1/No.2; 2 - Lumber Sill plate, No.1/No.2; Total length: 20' 5-5/8"; Clear span: 19' 8-3/4"; 3/4" nailed and glued OSB sheathing

This section PASSES the design code check.

Limit States Design using CSA 086-14 and Vibration Criterion:

Analysis Value	Design Value	Unit	Analysis/Design
Vf = 844	Vr = 2336	lbs	Wf/Wc = 0.36
Mf = 4188	Mr = 11609	lbs-ft	0.36
0.13 = < L/999	0.66 = L/360	in 🗸	0.19
0.25 = L/937	0.50 = L/480	in 🎉	C141 60.51
0.38 = L/624	0.99 = L/240	in 🔏	0.38
0.29 = L/819	0.66 = L/360	in 💹	87477 Cd. 51 Cd. 51 RATSOULAKOS 3.44
Lmax = 19'-10.2	Lv = 21'-2.7	ft 🕽	S. KATSOULAKOS \$ 44
= 0.027	= 0.032	in	0/85
	Vf = 844 Mf = 4188 0.13 = < L/999 0.25 = L/937 0.38 = L/624 0.29 = L/819 Lmax = 19'-10.2	Vf = 844	Vf = 844

WG NO.TAM 17878-21 STRUCTURAL COMPONENT ONLY

WoodWorks® Sizer

for NORDIC STRUCTURES

J10 1ST FLOOR.wwb

Nordic Sizer - Canada 8.0

Page 2

Additiona	l Data:									
FACTORS:	f/E	KD	KH	KZ	KL	KT	KS	KN	LC#	
Vr	2336	1.00	1.00	_	_	_		_	#2	
Mr+	11609 547.1 m	1.00	1.00	_	1.000			_	#2	
EI	547.1 m	illion		_		_	_	_	#2	
CRITICAL L	OAD COMB	INATIONS	:							
Shear	: LC #2	= 1.25	5D + 1.5	L						
Moment(+) : LC #2	= 1.25	5D + 1.5	L						
Deflecti	on: LC #1	= 1.0D) (perm	anent)						
		= 1.00								
		= 1.00								
		= 1.0D								
Bearing	: Suppo	rt 1 - L	C #2 =	1.25D +	1.5L					
		rt <u>2</u> - L							-	
Load Typ	es: D=de	ad L=li	ve(use,	occupano	cy)	*				
Load Pat	terns: s=	S/2 L=L	+Ls _=:	no patte	ern load	in this	s span			
All Load	Combinat	ions (LC	s) are	listed i	n the An	alysis	output			
CALCULATI										
	625.37 lb									
"Live" d	eflection	is due	to all 1	non-dead	l loads (live, w	vind, sno	ow) CQ	nforms to	OBC 2012
									AMENDED	2020

Design Notes:

AMENDED 2020

- 1. WoodWorks analysis and design are in accordance with the 2015 National Building Code of Canada (NBC), Division B, Part 4, and the CSA O86-14 Engineering Design in Wood standard, Update No. 2 (June 2017).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to Nordic Structures technical documentation for installation guidelines and construction details.
- 4. Nordic I-joists are listed in CCMC evaluation report 13032-R.
- 5. Joists shall be laterally supported at supports and continuously along the compression edge.
- 6. Allowable vibration-controlled span as per the Concluding Report, Development of Design Procedures for Vibration Controlled Spans using Engineered Wood Members, CWC et al for CCMC, 1997.
- 7. Floor vibration design from the CCMC Concluding Report (1997) on vibration controlled spans for engineered wood products.
- 8. The design assumptions and specifications have been provided by the client. Any damages resulting from faulty or incorrect information, specifications, and/or designs furnished, and the correctness or accuracy of this information is their responsibility. This analysis does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of this component based on the design criteria and loadings shown.



NORDIC **STRUCTURES**

COMPANY July 19, 2021 13:13

PROJECT J4 2ND FLOOR.wwb

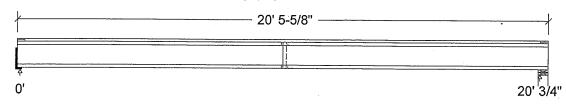
Design Check Calculation Sheet

Nordic Sizer - Canada 8.0

Loads:

Load	Type	Distribution	Pat-	Location	[ft]	Magnitu	de	Unit
			tern	Start	End	Start	End	
Loadl	Dead	Full Area	I			20.00		psf
Load2	Live	Full Area				40.00		psf

Maximum Reactions (lbs) and Support Bearing (in):



	r	
Unfactored: Dead Live Factored:	201 401	201 401
Total Bearing:	853	853
Capacity		
Joist	2154	2336
Support	_	10841
Des ratio		
Joist	0.40	0.37
Support		0.08
Load case	#2	#2
Length	2	4-3/8
Min req'd	1-1/2	1-1/2
Stiffener	No	No
KD	1.00	1.00
KB support	-	-
fcp sup	-	769
Kzcp sup	_	_

*Minimum bearing length for joists is 1-1/2" for exterior supports

Bearing for wall supports is perpendicular-to-grain bearing on top plate. No stud design included.

Nordic Joist 11-7/8" NI-80 Floor joist @ 12" o.c.

Supports: 1 - Hanger; 2 - Lumber Wall, No.1/No.2;

Total length: 20' 5-5/8"; Clear span: 19' 11-1/4"; 5/8" nailed and glued OSB sheathing with 1 row of blocking and 1/2" gypsum ceiling

This section PASSES the design code check.

OLYNCE OF O OWG NO. TAN 1787721 STRUCTURAL

COMPONENT ONLY

J4 2ND FLOOR.wwb

Nordic Sizer - Canada 8.0

Page 2

Limit States Design using CSA 086-14 and Vibration Criterion:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	Vf = 853	Vr = 2336	lbs	Vf/Vr = 0.37
Moment(+)	Mf = 4276	Mr = 11609	lbs-ft	Mf/Mr = 0.37
Perm. Defl'n	0.13 = < L/999	0.67 = L/360	in	0.20
Live Defl'n	0.27 = L/895	0.50 = L/480	in	0.54
Total Defl'n	0.40 = L/596	1.00 = L/240	in	0.40
Bare Defl'n	0.30 = L/798	0.67 = L/360	in	0.45
Vibration	Lmax = 20'-0.7	Lv = 23'-5.6	ft	0.85
Defl'n	= 0.023	= 0.032	in	0.71

Additional Data:

FACTORS:	f/E	KD	KH	KZ	\mathtt{KL}	KT	KS	KN	LC#
Vr	2336	1.00	1.00	-		_	_	-	#2
Mr+	11609	1.00	1.00	_	1.000		_	-	#2
EI	547.1 m	illion			_	•••	_		#2

CRITICAL LOAD COMBINATIONS:

```
: LC #2
                  = 1.25D + 1.5L
Moment(+) : LC #2
                   = 1.25D + 1.5L
Deflection: LC #1
                   = 1.0D
                           (permanent)
            LC #2
                   = 1.0D + 1.0L
            LC #2
                   = 1.0D + 1.0L
                                   (total)
            LC #2
                  = 1.0D + 1.0L
                                   (bare joist)
          : Support 1 - LC \# 2 = 1.25D + 1.5L
Bearing
            Support 2 - LC \# 2 = 1.25D + 1.5L
```

Load Types: D=dead L=live(use,occupancy)

Load Patterns: s=S/2 L=L+Ls _=no pattern load in this span All Load Combinations (LCs) are listed in the Analysis output

CALCULATIONS:

Eleff = $613.27 \text{ lb-in}^2 \text{ K} = 6.18e06 \text{ lbs} \text{ GA} = 0.77e06 \text{ lb}$

"Live" deflection is due to all non-dead loads (live, wind, snow...) CONFORMS TO OBC 2012

Design Notes:

AMENDED 2020

1. WoodWorks analysis and design are in accordance with the 2015 National Building Code of Canada (NBC), Division B, Part 4, and the CSA O86-14 Engineering Design in Wood standard, Update No. 2 (June 2017).

2. Please verify that the default deflection limits are appropriate for your application.

3. Refer to Nordic Structures technical documentation for installation guidelines and construction details.

4. Nordic I-joists are listed in CCMC evaluation report 13032-R.

- 5. Joists shall be laterally supported at supports and continuously along the compression edge.
- 6. Allowable vibration-controlled span as per the Concluding Report, Development of Design Procedures for Vibration Controlled Spans using Engineered Wood Members, CWC et al for CCMC, 1997.
- 7. Floor vibration design from the CCMC Concluding Report (1997) on vibration controlled spans for engineered wood products.
- 8. The design assumptions and specifications have been provided by the client. Any damages resulting from faulty or incorrect information, specifications, and/or designs furnished, and the correctness or accuracy of this information is their responsibility. This analysis does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of this component based on the design criteria and loadings shown.

S. KATSOLICATIONS S. NATSOLICATION OF ONE

BWG NO.TAM/7*87921*STRUCTURAL
COMPONENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

1ST FLR FRAMING\Flush Beams\B1(i1750) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

4504 EL A.mmdl

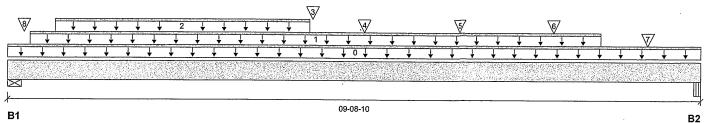
Wind

Description: 1ST FLR FRAMING\Flush Beams\B1(i1750)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 09-08-10

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead Snow B1, 5-1/2" 4292 / 0 2861/0 B2, 5-1/4" 2271 / 0 1305 / 0

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-08-10	Top		12			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-03-12	08-03-12	Top	341	170			n\a
2	WALL	Unf. Lin. (lb/ft)	L	00-88-00	04-02-10	Тор	240	120			n\a
3	B6(i1368)	Conc. Pt. (lbs)	L	04-03-02	04-03-02	Top		291			n\a
4	J6(i1314)	Conc. Pt. (lbs)	L	04-11-12	04-11-12	Top	171	85			n\a
5	J6(i1306)	Conc. Pt. (lbs)	L	06-03-12	06-03-12	Top	217	109			n\a
6	J6(i1306)	Conc. Pt. (lbs)	L	07-07-12	07-07-12	•	217	109			n\a
7	•	Conc. Pt. (lbs)	L	08-11-12	08-11-12	Top	463	232			n\a
8	6(i1175)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Тор	1840	1431			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	12151 ft-lbs	35392 ft-lbs	34.3%	1	04-11-12
End Shear	4983 lbs	14464 lbs	34.4%	1	01-05-06
Total Load Deflection	L/851 (0.126")	n\a	28.2%	4	04-09-09
Live Load Deflection	L/999 (0.078")	n\a	n\a	5	04-09-09
Max Defl.	0.126"	n\a	n\a	4	04-09-09
Span / Depth	9.0				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 3-1/2"	10015 lbs	84.6%	42.6%	Spruce-Pine-Fir
B2	Beam	5-1/4" x 3-1/2"	5038 lbs	51.3%	22.5%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

CONFORMS TO OBC 2012

Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.



DWG NO. TAN 1788221 STRUCTURAL COMPONENT ONLY



BC CALC® Member Report



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B1(i1750) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address: City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name: 4504 EL A.mmdl

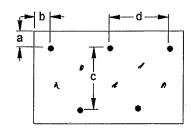
Description: 1ST FLR FRAMING\Flush Beams\B1(i1750)

Specifier:

Designer: AJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 68 "

Calculated Side Load = 970.5 lb/ft

Connectors are:

- € a Nails · 1

ARDOX SPIRAL

PONNUE OF O DWG NO. TAM 17880-21

STRUCTURAL COMPONENT ONLY Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® , AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B2(i1535) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

B2

BC CALC® Member Report Build 7773

Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name:

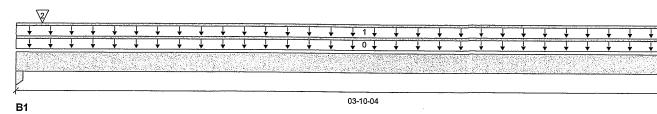
4504 EL A.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B2(i1535)

Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 03-10-04

Reaction Summary (Down / Unlift) (lbs)

	minary (Domin's Of	pint) (ibo)			
Bearing	Live	Dead	Snow	Wind	
B1, 4-1/2"	2373 / 0	1698 / 0			
B2, 2"	17 / 0	20/0			

Load Summary							Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	03-10-04	Тор		6			00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	03-10-04	Тор	10	5			n\a
2	5(i323)	Conc. Pt. (lbs)	L	00-01-12	00-01-12	Тор	2354	1676		.mi-1670	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	41 ft-lbs	17696 ft-lbs	0.2%	1	02-00-06
End Shear	19 lbs	7232 lbs	0.3%	1	01-04-06
Total Load Deflection	L/999 (0")	n\a	n\a	4	02-00-06
Live Load Deflection	L/999 (0")	n\a	n\a	5	02-00-06
Max Defl.	0"	n\a	n\a	4	02-00-06
Span / Depth	3.5				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Column	4-1/2" x 1-3/4"	5683 lbs	- 88.9%	59.1%	Unspecified
B2	Hanger	2" x 1-3/4"	51 l bs	n\a	1.2%	LS90

Cautions

Header for the hanger LS90 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model LS90 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO DBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 03-06-12.

SOUNCE OF

DWG NO. TAM 1788/21 STRUCTURAL COMPONENT ONLY Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





1ST FLR FRAMING\Flush Beams\B4(i1422) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer: Code reports:

CCMC 12472-R

File name:

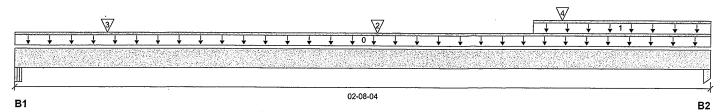
4504 EL A.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B4(i1422)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 02-08-04

Reaction Summary (Down / Uplift) (lbs)

	a _ _ _				
Bearing	Live	Dead	Snow	Wind	
B1, 4"	1481 / 0	844 / 0			
B2, 2-1/4"	2603 / 0	1634 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	02-08-04	Тор		12			00-00-00
1	5(i323)	Unf. Lin. (lb/ft)	L	02-00-00	02-08-04	Top		81			n\a
2	-	Conc. Pt. (lbs)	L	01-04-12	01-04-12	Top	1113	586			n\a
3	J10(i1657)	Conc. Pt. (lbs)	L	00-04-04	00-04-04	Top	403	201			n\a
4	-	Conc. Pt. (lbs)	L	02-01-06	02-01-06	Top	2548	1593			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2684 ft-lbs	35392 ft-lbs	7.6%	1	01-05-00
End Shear	2373 lbs	14464 lbs	16.4%	1	01-03-14
Total Load Deflection	L/999 (0.002")	n\a	n\a	4	01-05-13
Live Load Deflection	L/999 (0.001")	n\a	n\a	5	01-05-13
Max Defl.	0.002"	n\a	n\a	4	01-05-13
Span / Depth	2.3				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	4" x 3-1/2"	3278 lbs	43.8%	19.2%	Unspecified
B2	Column	2-1/4" x 3-1/2"	5948 lbs	93.1%	62.0%	Unspecified

Cautions

Concentrated side load(s) 4 are closer than 18" from end of member. Please consult a technical representative or Professional of Record.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 00-08-08.



OWG NO. TAM 1788221 STRUCTURAL COMPONENT ONLY





1ST FLR FRAMING\Flush Beams\B4(i1422) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773 Job name:

Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer:

Code reports:

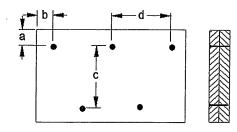
CCMC 12472-R

File name: 4504 EL A.mmdl Description: 1ST FLR FRAMING\Flush Beams\B4(i1422)

Specifier:

Designer: AJ Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

c = 7-7/8" d = 20 8 4

Calculated Side Load = 427.9 lb/ft Connectors are: 16d Conf An Nails

312" ARDOX SPIRAL



Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B5(i1329) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

B2

Build 7773

Job name:

Customer:

B1

Code reports:

Address:

City, Province, Postal Code: BRAMPTON

Description:

File name: 4504 EL A.mmdl

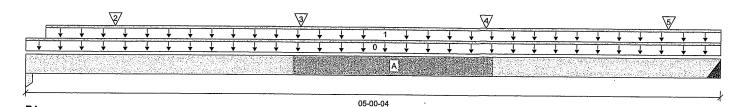
Description: 1ST FLR FRAMING\Flush Beams\B5(i1329)

Specifier:

Company:

Designer: AJ

CCMC 12472-R



Total Horizontal Product Length = 05-00-04

Reaction Summary (Down / Uplift) (lbs)

readilon Can	ininary (Downir C	pinity (iba)			
Bearing	Live	Dead	Snow	Wind	
B1, 1-3/4"	633 / 0	346 / 0			**************************************
B2, 4"	743 / 0	402 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	·
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-00-04	Тор		12			00-00-00
1	STAIR	Unf. Lin. (lb/ft)	L	00-01-12	05-00-04	Тор	120	60			n\a
2	J6(i1314)	Conc. Pt. (lbs)	L	00-07-12	00-07-12	Top	179	90			n\a
3	J6(i1306)	Conc. Pt. (lbs)	L	01-11-12	01-11-12	Top	225	112			n\a
4	J6(i1352)	Conc. Pt. (lbs)	L		03-03-12		225	112			n\a
5	J6(i1287)	Conc. Pt. (lbs)	Ĺ	04-07-12	04-07-12	•	162	81			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1654 ft-lbs	35392 ft-lbs	4.7%	1	02-00-12
End Shear	923 lbs	14464 lbs	6.4%	1	01-01-10
Total Load Deflection	L/999 (0.005")	n\a	n\a	4	02-04-12
Live Load Deflection	L/999 (0.003")	n\a	n\a	5	02-04-12
Max Defl.	0.005"	n\a	n\a	4	02-04-12
Span / Depth	4.7				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Column	1-3/4" x 3-1/2"	1381 lbs	27.8%	18.5%	Unspecified	•
B2	Hanger	4" x 3-1/2"	1618 lbs	n\a	9.5%	HGUS410	

Cautions

Header for the hanger HGUS410 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA 086.

CONFORMS TO OBC 2012
AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.



DWG NO.TAM 1963-21
STRUCTURAL
COMPONENT ONLY





1ST FLR FRAMING\Flush Beams\B5(i1329) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

BC CALC® Member Report Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer:

Code reports: CCMC 12472-R

File name: 4504 EL A.mmdl

Description:

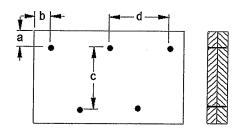
1ST FLR FRAMING\Flush Beams\B5(i1329)

Specifier:

Designer: ΑJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

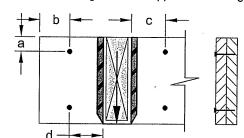
c = 7-7/8" d = 8 8

Calculated Side Load = 190.5 lb/ft

Connectors are: e: 3½" ARDUX SPIRAL an Nails

Connection Diagrams: Concentrated Side Loads

Connection Tag: A Applies to load tag(s): 3+4



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

Connectors are: .

Nails

ARDOX SPIRAL



STRUCTURAL COMPONENT ONLY Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design

properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.





1ST FLR FRAMING\Flush Beams\B6(i1368) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

4504 EL A.mmdl

Wind

1ST FLR FRAMING\Flush Beams\B6(i1368)

Description: Specifier:

Designer: ΑJ

Company:

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_+ + + + + + + + + +	<u> </u>	+ + +	† 0 † †	 		\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	↓ ↓ ↓	<u> </u>	<u> </u>
A							V		
-		0	8-01-12						

Snow

Total Horizontal Product Length = 08-01-12

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	
B1, 2"	63 / 0	296 / 0	
B2, 3-1/2"	65 / 0	288 / 0	

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-01-12	Тор		6			00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	08-01-12	Тор	16	8			n\a
2	WALL	Unf. Lin. (lb/ft)	L	00-00-00	07-10-04	Top		60			n\a

0 1 1 0		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	790 ft-lbs	11502 ft-lbs	6.9%	0	04-00-02
End Shear	295 lbs	4701 lbs	6.3%	0	01-01-14
Total Load Deflection	L/999 (0.015")	n\a	n\a	4	04-00-02
Live Load Deflection	L/999 (0.003")	n\a	n\a	5	04-00-02
Max Defl.	0.015"	n\a	n\a	4	04-00-02
Span / Depth	7.9				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	415 lbs	n\a	15.0%	HUS1.81/10
B2	Column	3-1/2" x 1-3/4"	404 lbs	12.5%	8.3%	Unspecified

Cautions

Header for the hanger HUS1.81/10 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for local adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00. Bottom: 07-10-04.

CONFORMS TO OBG 2012



STRUCTURAL

COMPONENT ONLY **Disclosure**

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PASSED

1ST FLR FRAMING\Flush Beams\B7(i1729) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

Build 7773

Job name:

Customer:

Code reports:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name:

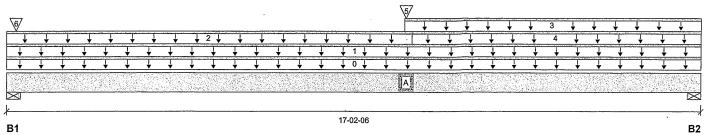
4504 EL A.mmdl

Description: 1ST FLR FRAMING\Flush Beams\B7(i1729)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 17-02-06

Reaction Summary (Down / Uplift) (lbs)

. touotion our		······································			
Bearing	Live	Dead	Snow	Wind	
B1, 5-1/2"	852 / 0	571 / 0			
B2, 4-3/8"	1313 / 0	782 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	17-02-06	Top		12			00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	17-02-06	Тор	20	10			n\a
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Тор	17 :	. 9			n\a
3	STAIR	Unf. Lin. (lb/ft)	L	09-09-13	17-02-06	Top	120	60			n\a
4	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	10-00-00	17-02-06	Тор	6	3			n\a
5	B8(i1470)	Conc. Pt. (lbs)	L	09-10-04	09-10-04	Top	629	354			n\a
6	E1(i309)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Тор	101	74			n\a

		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	12025 ft-lbs	35392 ft-lbs	34.0%	1	09-10-04
End Shear	2508 lbs	14464 lbs	17.3%	1	15-10-02
Total Load Deflection	L/519 (0.382")	n\a	46.3%	4	09-00-06
Live Load Deflection	L/837 (0.237")	n\a	43.0%	5	09-00-06
Max Defl.	0.382"	n\a	n\a	4	09-00-06
Span / Depth	16.7				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 3-1/2"	1992 lbs	16.8%	8.5%	Spruce-Pine-Fir
B2	Wall/Plate	4-3/8" x 3-1/2"	2947 lbs	31.3%	15.8%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBG 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 09-03-00.



STRUCTURAL COMPONENT ONLY





1ST FLR FRAMING\Flush Beams\B7(i1729) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

4504 EL A.mmdl

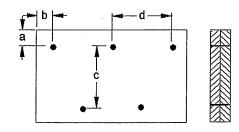
File name: Description: 1ST FLR FRAMING\Flush Beams\B7(i1729)

Specifier:

Designer: ΑJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8"

b minimum = 3"

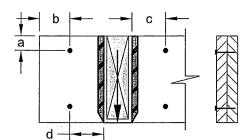
d = 60'B"

Connectors are: .

3½" ARDOX SPIRAL

Connection Diagrams: Concentrated Side Loads

Connection Tag: A ——Applies to load tag(s): 5



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

Connectors are: 16d Nails

ÁRDOX SPIRAL



THE NO. TAN 108521 STRUCTURAL COMPONENT ONLY

Disclosure

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Triple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Dropped Beams\B9 DR(i1554) (Dropped Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

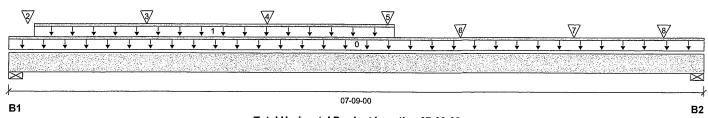
4504 EL A.mmdl

Description: 2ND FLR FRAMING\Dropped Beams\B9 DR(i1554)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 07-09-00

Reaction Summary (Down / Unlift) (lbs)

i todotion odn				
Bearing	Live	Dead	Snow	Wind
B1, 4"	1996 / 0	1140 / 0		
B2, 4"	2221/0	1429 / 0		

Lo	d Summary							Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	07-09-00	Тор		14			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-03-06	04-03-06	Top	402	201			n\a
2	J3(i1641)	Conc. Pt. (lbs)	L	00-02-08	00-02-08	Top	105	53			n\a
3	J3(i1576)	Conc. Pt. (lbs)	L	01-06-08	01-06-08	Top	98	49			n\a
4	J3(i1531)	Conc. Pt. (lbs)	L	02-10-08	02-10-08	Top	98	49			n\a
5	J3(i1476)	Conc. Pt. (lbs)	L	04-02-08	04-02-08	Top	82	41			n\a
6	•	Conc. Pt. (lbs)	L	05-00-02	05-00-02	Тор	1345	893			n\a
7	J4(i1673)	Conc. Pt. (lbs)	L	06-03-10	06-03-10	Тор	461	298			n\a
8	J4(i1687)	Conc. Pt. (lbs)	L	07-03-10	07-03-10	Тор	411	267			n\a

		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	8988 ft-lbs	36222 ft-lbs	24.8%	1	04-09-04
End Shear	4284 lbs	17356 lbs	24.7%	1	06-07-08
Total Load Deflection	L/999 (0.078")	n\a	n\a	4	03-11-15
Live Load Deflection	L/999 (0.049")	n\a	n\a	5	03-10-11
Max Defl.	0.078"	n\a	n\a	4	03-11-15
Span / Depth	9 1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	4" x 5-1/4"	4419 lbs	15.8%	17.2%	Spruce-Pine-Fir
B2	Wall/Plate	4" x 5-1/4"	5117 lbs	18.3%	20.0%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

CONFORMS TO OBG 2012

Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-11-12, Bottom: 07-09-00.



DWG NO. TAM 1186-21 STRUCTURAL COMPONENT ONLY





Triple 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Dropped Beams\B9 DR(i1554) (Dropped Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Customer:

Code reports:

Address: City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name: Description:

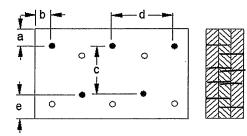
4504 EL A.mmdl 2ND FLR FRAMING\Dropped Beams\B9 DR(i1554)

Specifier:

Designer:

AJ Company:

Connection Diagram: Full Length of Member



a minimum = **1**" b minimum = 3"

d = 🐠 8"

e minimum = 3"

Nailing applies to both sides of the member Connectors are: . * Nails

ARDOX SPIRAL

TOFESSION! OUNICE OF ONLY

198 HO. TAN 188621 STRUCTURAL COMPONENT ONLY

Disclosure

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B10(i1443) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

File name:

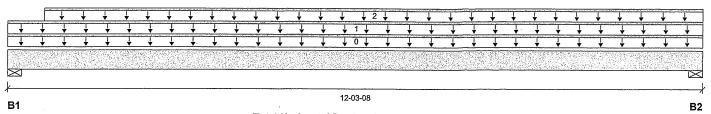
4504 EL A.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B10(i1443)

Specifier:

Designer: AJ

CCMC 12472-R Company:



Total Horizontal Product Length = 12-03-08

Reaction Summary (Down / Uplift) (lbs)

i todotion oui	minary (Domin' O				
Bearing	Live	Dead	Snow	Wind	
B1, 4-3/8"	2373 / 0	1257 / 0			
B2, 5-1/8"	2801 / 0	1472 / 0			

Lo	Load Summary								Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-03-08	Тор		12		***************************************	00-00-00
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	12-03-08	Тор	28	14			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	00-07-12	12-03-08	Тор	415	207			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	15762 ft-lbs	35392 ft-lbs	44.5%	1	06-01-12
End Shear	4851 lbs	14464 lbs	33.5%	1	01-04-04
Total Load Deflection	L/505 (0.276")	n\a	47.5%	4	06-01-12
Live Load Deflection	L/771 (0.181")	n\a	46.7%	5	06-01-12
Max Defl.	0.276"	n\a	n\a	4	06-01-12
Span / Depth	11.7				

В	earing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
В	1 Wall/Plate	4-3/8" x 3-1/2"	5131 lbs	54.5%	27.5%	Spruce-Pine-Fir
B	2 Wall/Plate	5-1/8" x 3-1/2"	6042 lbs	54.7%	27.6%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 00-08-08.

S. KATSONOKOS S

OWG NO.TAM 17087-21 STRUCTURAL COMPONENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B10(i1443) (Flush Beam)

PASSED

BC CALC® Member Report

Build 7773

Job name:

Address: City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

July 19, 2021 13:22:29

File name: 4504 EL A.mmdl

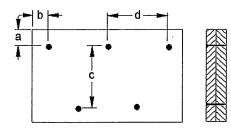
2ND FLR FRAMING\Flush Beams\B10(i1443) Description:

Specifier:

Designer: ΑJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

.-----

c = 7-7/8" d = 10 4

Calculated Side Load = 855.8 lb/ft Connectors are: 16d 🐫 🔏 Nails

312" ARDOX SPIRAL

MARKAGE AND AND THE TOTAL LABORATION AND A SECOND

OVINCE OF ON A OWE NO. TAM NBB/21 STRUCTURAL COMPONENT ONLY

Disclosure

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PASSED

2ND FLR FRAMING\Flush Beams\B11(i1637) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

Build 7773

Job name:

Customer:

Code reports:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name: Description:

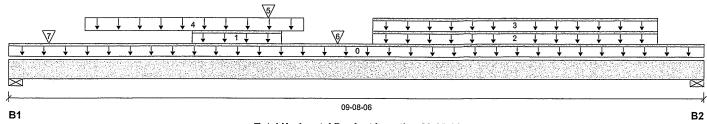
4504 EL A.mmdl

2ND FLR FRAMING\Flush Beams\B11(i1637)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 09-08-06

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead B1, 6" 2356 / 0 1659 / 0 B2, 4-3/8" 2346 / 0 1396 / 0

Lo	oad Summary							Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-08-06	Тор		12			00-00-00
1	WALL	Unf. Lin. (lb/ft)	L	02-06-10	03-09-07	Top		30			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	05-00-10	09-00-10	Top	404	202			n\a
3	Smoothed Load	Unf. Lin. (lb/ft)	L	05-00-10	09-00-10	Тор	184	92			n\a
4	Smoothed Load	Trapezoidal (lb/ft)	L	01-00-10		Тор	401	274			n\a
					04-01-02		401	210			
5	B14(i1564)	Conc. Pt. (lbs)	L	03-07-04	03-07-04	Top	111	418			n\a
6	-	Conc. Pt. (lbs)	L	04-06-13	04-06-13	Top	596	299	•		n\a
7	J4(i1595)	Conc. Pt. (lbs)	L	00-06-10	00-06-10	Тор	410	265			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	12727 ft-lbs	35392 ft-lbs	36.0%	1	04-07-02
End Shear	4963 lbs	14464 lbs	34.3%	1	08-04-02
Total Load Deflection	L/807 (0.133")	n\a	29.7%	4	04-11-07
Live Load Deflection	L/999 (0.08")	n\a	ń\a	5	04-11-07
Max Defl.	0.133"	n\a	n\a	4	04-11-07
Span / Depth	9.1				

Bearing	Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	6" x 3-1/2"	5608 lbs	43.4%	21.9%	Spruce-Pine-Fir
B2	Wall/Plate	4-3/8" x 3-1/2"	5263 lbs	55.9%	28.2%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

CONFORMS TO OBG 2012

Design meets Code minimum (L/360) Live load deflection criteria.

AMENDED 2020

Resistance Factor phi has been applied to all presented results per CSA O86. BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 00-08-08.



overo. Tam ness 2 e STRUCTURAL COMPONENT ONLY





2ND FLR FRAMING\Flush Beams\B11(i1637) (Flush Beam)

PASSED

July 19, 2021 13:22:29

BC CALC® Member Report

Build 7773

Job name:

Address: City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

File name: 4504 EL A.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B11(i1637)

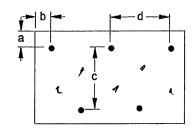
Specifier:

ΑJ

Designer:

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 6 6 4

Calculated Side Load = 934.0 lb/ft

Connectors are: -..

ARDOX SPIRAL

Nails

POVINCE OF ON

BYEND. TAN NBBB-21 STRUCTURAL COMPONENT ONLY

Disclosure

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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Power Brother





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

2ND FLR FRAMING\Flush Beams\B13(i1523) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

Build 7773 Job name:

Address:

File name: Description:

Company:

4504 EL A.mmdl

Wind

2ND FLR FRAMING\Flush Beams\B13(i1523)

City, Province, Postal Code: BRAMPTON

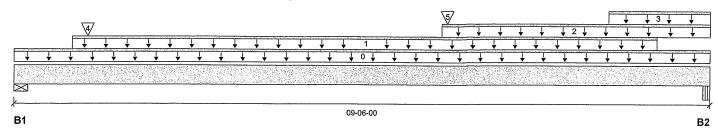
Specifier:

Designer:

Customer: Code reports:

CCMC 12472-R

ΑJ



Total Horizontal Product Length = 09-06-00

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead Snow B1, 5-1/2" 1626 / 0 1294 / 0 B2, 2-1/4" 1576 / 0 884 / 0

Loa	ad Summary		Live	Dead	Snow	Wind	Tributary				
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-06-00	Тор		12			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-09-08	08-09-08	Top	339	169			n∖a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	Ĺ	05-09-12	09-06-00	Тор	30	15			n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	08-01-08	09-06-00	Тор	36	18			n\a
4	B15(i1417)	Conc. Pt. (lbs)	L	01-00-00	01-00-00	Top	126	509			n\a
5	B17(i1485)	Conc. Pt. (lbs)	L	05-10-10	05-10-10	Тор	178	108			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	8678 ft-lbs	35392 ft-lbs	24.5%	1	05-05-08
End Shear	3649 lbs	14464 lbs	25.2%	1	01-05-06
Total Load Deflection	L/999 (0.091")	n\a	n\a	4	04-11-08
Live Load Deflection	L/999 (0.058")	n\a	n\a	5	04-11-08
Max Defl.	0.091"	n\a	n\a	4	04-11-08
Span / Depth	9 1	•			

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 3-1/2"	4056 lbs	34.3%	17.3%	Spruce-Pine-Fir
B2	Beam	2-1/4" x 3-1/2"	3469 lbs	71.6%	36.1%	Spruce-Pine-Fir

Notes

Fag. . .

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBG 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

POVINCE OF ONLY

184 HO. TAM 1788 221 STRUCTURAL COMPONENT ONLY





2ND FLR FRAMING\Flush Beams\B13(i1523) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

Code reports:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer:

CCMC 12472-R

File name:

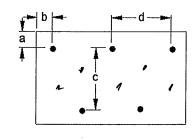
4504 EL A.mmdl Description: 2ND FLR FRAMING\Flush Beams\B13(i1523)

Specifier:

Designer: AJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = 8 8 "

Calculated Side Load = 974.8 lb/ft 1

Connectors are:

โ.∌≘ Nails

312" ARDOX SPIRAL

POVINCE OF ONE

198 10. TAN 1188921 STRUCTURAL COMPONENT ONLY

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

PASSED

2ND FLR FRAMING\Flush Beams\B16(i1506) (Flush Beam)

Dry | 2 spans | L cant.

July 19, 2021 13:22:29

Build 7773 Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

4504 EL A.mmdl

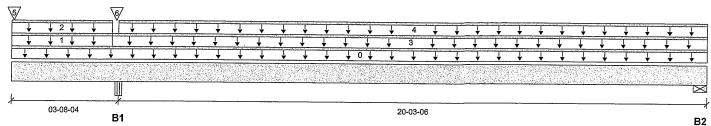
Wind

File name: Description: 2ND FLR FRAMING\Flush Beams\B16(i1506)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 23-11-10

Snow

Reaction Summary (Down / Uplift) (lbs)

Bearing Live Dead B1, 5-1/4" 1090 / 0 765 / 0 B2, 4-3/8" 315 / 85 231/0

L	oad Summary	Summary								Wind	Tributary	
	ag Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15		
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	23-11-10	Top		12			00-00-00	
1	User Load	Unf. Lin. (lb/ft)	L	00-00-00	03-05-10	Top	120	60			n\a	
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	03-05-10	Тор	20	10			n\a	
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-05-10	23-11-10	Тор	25	12			n\a	
4	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	03-08-04	23-11-10	Тор	6	3			n\a	
5	B17(i1485)	Conc. Pt. (lbs)	L	00-00-14	00-00-14	Тор	208	123			n\a	
6	WALL	Conc. Pt. (lbs)	L	03-07-06	03-07-06	Top		29			n\a	

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	3397 ft-lbs	35392 ft-lbs	9.6%	3	14-05-06
Neg. Moment	-3803 ft-lbs	-20124 ft-lbs	18.9%	1	03-08-04
End Shear	653 lbs	14464 lbs	4.5%	3	22-07-06
Cont. Shear	1240 lbs	14464 lbs	8.6%	1	02-05-12
Total Load Deflection	L/1420 (0.169")	n\a	16.9%	10	13-10-13
Live Load Deflection	L/999 (0.112")	n\a	n\a	13	13-07-07
Total Neg. Defl.	2xL/1998 (-0.075")	n\a	n\a	10	00-00-00
Max Defl.	0.169"	n\a	n\a	10	13-10-13
Span / Depth	20.2				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	5-1/4" x 3-1/2"	2591 lbs	11.6%	11.6%	VL 2.0 3100 SP
B2	Wall/Plate	4-3/8" x 3-1/2"	762 lbs	8.1%	4.1%	Spruce-Pine-Fir



148 HB. TAM 17890-21 STRUGTURAL COMPONENT ONLY





PASSED

2ND FLR FRAMING\Flush Beams\B16(i1506) (Flush Beam) **BC CALC® Member Report**

Dry | 2 spans | L cant.

July 19, 2021 13:22:29

Build 7773

Job name: Address:

File name: Description:

4504 EL A.mmdl 2ND FLR FRAMING\Flush Beams\B16(i1506)

CONFORMS TO OBC 2012

AMENDED 2020

Customer:

City, Province, Postal Code: BRAMPTON

Specifier:

Designer:

Code reports:

CCMC 12472-R

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

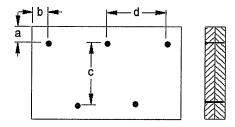
Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Cantilevers require sheathed bottom flanges, blocking at cantilever support and closure at ends.

Calculations assume unbraced length of Top; 00-00-00, Bottom; 09-10-11.

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

c = 7-7/8" d = 89 89

Calculated Side Load = 232.9 lb/ft

Connectors are:

Nails ، ARDOX SPIRAL



Disclosure

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Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B17(i1485) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

Des

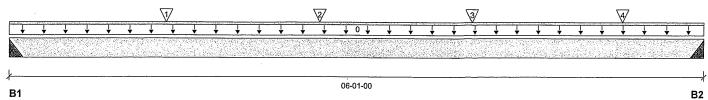
File name: Description: 4504 EL A.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B17(i1485)

Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 06-01-00

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	
B1, 2"	178 / 0	108 / 0	,		
B2, 2"	208 / 0	123 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-01-00	Тор		6			00-00-00
1	J3(i1641)	Conc. Pt. (lbs)	L	01-04-08	01-04-08	Top	105	53			n\a
2	J3(i1576)	Conc. Pt. (lbs)	L	02-08-08	02-08-08	Top	98	49			n\a
3	J3(i1531)	Conc. Pt. (lbs)	L	04-00-08	04-00-08	Тор	98	49			n\a
4	J3(i1476)	Conc. Pt. (lbs)	L	05-04-08	05-04-08	Top	85	43			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	719 ft-lbs	17696 ft-lbs	4.1%	1	02-08-08
End Shear	393 lbs	7232 lbs	5.4%	<u>.</u> 1	01-01-14
Total Load Deflection	L/999 (0.006")	n\a	n\a	4	03-00-08
Live Load Deflection	L/999 (0.004")	n\a	n\a	5	03-00-08
Max Defl.	0.006"	n\a	n\a	4	03-00-08
Span / Depth	5.9				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	401 lbs	n\a	9.4%	HUS1.81/10
B2	Hanger	2" x 1-3/4"	466 lbs	n\a	10.9%	LS90

Cautions

Header for the hanger HUS1.81/10 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Header for the hanger LS90 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model LS90 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

049



OWE HO. TAM 17891-21 STRUCTURAL COMPONENT ONLY

ر الأسمانية





2ND FLR FRAMING\Flush Beams\B17(i1485) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer: Code reports:

CCMC 12472-R

Description:

File name: 4504 EL A.mmdl

2ND FLR FRAMING\Flush Beams\B17(i1485)

Specifier:

Designer: ΑJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-03-04.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

CONFORMS TO OBC 2012

AMENDED 2020

OVINCE OF OF P 646 NO. TAM 11891-21 STRUCTURAL COMPONENT ONLY

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B18(i1747) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name: Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name: Description:

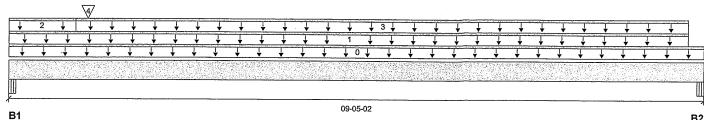
4504 EL A.mmdl

2ND FLR FRAMING\Flush Beams\B18(i1747)

Specifier:

Designer: ΑJ

Company:



B2

Total Horizontal Product Length = 09-05-02

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	
B1, 4-1/8"	596 / 0	1040 / 0	524 / 0		
B2, 5-1/4"	168 / 0	204 / 0	53 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-05-02	Тор		12			00-00-00
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	09-02-08	Тор	6	3			n\a
2	E14(i1161)	Unf. Lin. (lb/ft)	L	00-00-00	00-10-14	Top		81			n\a
3	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-10-14	09-02-08	Тор	21	10			n\a
4	•	Conc. Pt. (lbs)	L	01-00-14	01-00-14	Тор	532	942	577		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2075 ft-lbs	35392 ft-lbs	5.9%	1	01-05-04
End Shear	1964 lbs	14464 lbs	13.6%	1	01-04-00
Total Load Deflection	L/999 (0.021")	n\a	n\a	35	04-03-00
Live Load Deflection	L/999 (0.011")	n\a	n\a	51	04-03-00
Max Defl.	0.021"	n\a	n\a	35	04-03-00
Span / Depth	8.9				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	4-1/8" x 3-1/2"	2719 lbs	35.3%	15.4%	Unspecified
B2	Beam	5-1/4" x 3-1/2"	560 lbs	5.7%	2.5%	Unspecified

Cautions

Concentrated side load(s) 5 are closer than 18" from end of member. Please consult a technical representative or Professional of Record.



STRUCTURAL COMPONENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B18(i1747) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name:

4504 EL A.mmdl Description: 2ND FLR FRAMING\Flush Beams\B18(i1747)

Specifier:

Designer:

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Unbalanced snow loads determined from building geometry were used in selected product's

Design based on Dry Service Condition.

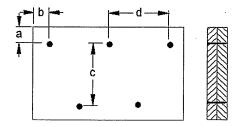
Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 07-09-08.

CONFORMS TO OBC 2012

AMENDED 2020

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

Connectors are: .

1 Rails

ARDOX SPIRAL

POVINCE OF ON

BYC KO. TAM 1789221 STRUCTURAL COMPONENT ONLY

Disclosure

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2ND FLR FRAMING\Flush Beams\B19(i1739) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

BC CALC® Member Report Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

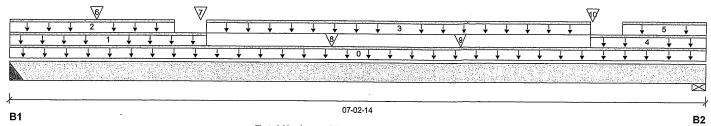
4504 EL A.mmdl

File name: Description: 2ND FLR FRAMING\Flush Beams\B19(i1739)

Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 07-02-14

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind	
B1, 4"	544 / 0	756 / 0	282 / 0		
B2. 4-3/8"	502 / 0	735 / 0	282 / 0		

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	07-02-14	Тор		12			00-00-00
1	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	02-00-08	Тор		81			n\a
2	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	01-08-08	Top		42	78		n\a
3	E16(i1162)	Unf. Lin. (lb/ft)	L	02-00-08	06-00-08	Top		61			n\a
4	E17(i1163)	Unf. Lin. (lb/ft)	L	06-00-08	07-02-14	Top		81			n\a
5	E17(i1163)	Unf. Lin. (lb/ft)	L	06-04-08	07-02-14	Top		42	78		n\a
6	J2(i1736)	Conc. Pt. (lbs)	L	00-10-12	00-10-12	Top	181	91			n\a
7	-	Conc. Pt. (lbs)	L	01-11-12	01-11-12	qoT	206	237	184		n\a
8	J2(i1586)	Conc. Pt. (lbs)	L	03-04-00	03-04-00	Top	225	113			n\a
9	J2(i1586)	Conc. Pt. (lbs)	L	04-08-00	04-08-00	Top	225	113			n\a
10	-	Conc. Pt. (lbs)	L	06-00-12	06-00-12	Тор	209	236	180		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	3082 ft-lbs	35392 ft-lbs	8.7%	. 1	03-04-00
End Shear	1714 lbs	14464 lbs	11.9%	1	05-10-10
Total Load Deflection	L/999 (0.019")	n\a	n\a	35	03-07-00
Live Load Deflection	L/999 (0.01")	n\a	n\a	51	03-07-00
Max Defl.	0.019"	n\a	n\a	35	03-07-00
Span / Depth	6.7				

Bearin	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	4" x 3-1/2"	2043 lbs	n\a	12.0%	HGUS410
B2	Wall/Plate	4-3/8" x 3-1/2"	1954 lbs	20.7%	10.5%	Spruce-Pine-Fir

Cautions

Header for the hanger HGUS410 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.





STRUCTURAL COMPONENT ONLY





2ND FLR FRAMING\Flush Beams\B19(i1739) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 13:22:29

PASSED

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer: Code reports:

CCMC 12472-R

File name:

4504 EL A.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B19(i1739)

Specifier:

Designer: ΑJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Unbalanced snow loads determined from building geometry were used in selected product's

verification.

Design based on Dry Service Condition.

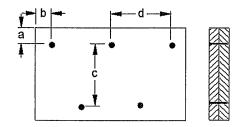
Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

CONFORMS TO OBC 2012

AMENDED 2020

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7-7/8" d = 100 B

Calculated Side Load = 478.8 lb/ft

Connectors are: Nails

312" ARDOX SPIRAL

POWNEE OF ONLY

146 HO. TAN 1189321 STRUCTURAL Disclosure COMPONENT ONLY

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™. ALLJOIST® . BC RIM BOARD™. BCI® . BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®.

المالة المسابقين





Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Dropped Beams\B9A DR(i3067) (Dropped Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Customer:

Code reports:

Address:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name: Description:

4504 EL A OPT..mmdl

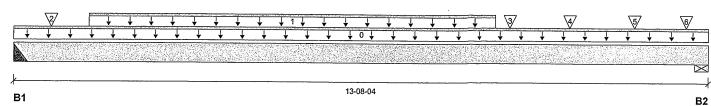
2ND FLR FRAMING\Dropped Beams\B9A DR(i3067)

Wind

Specifier:

Designer:

Company:



Total Horizontal Product Length = 13-08-04

Snow

Reaction Summary (Down / Uplift) (Ibs)

Bearing	Live	Dead
B1, 4"	3383 / 0	1873 / 0
B2. 4"	4273 / 0	2615 / 0

Lo: Tag	ad Summary Description	Load Tyre	Def	Otant	 1	•	Live	Dead	Snow	Wind	Tributary
lay		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-08-04	Top		18			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	01-05-12	09-05-12	Top	477	238			n\a
2	-	Conc. Pt. (lbs)	L	00-08-13	00-08-13	Top	477	238			n\a
3	-	Conc. Pt. (lbs)	L	09-09-04	09-09-04	Top	483	200			n\a
4	-	Conc. Pt. (lbs)	L	10-11-09	10-11-09	Top	2001	1287			n\a
5	J5(i3104)	Conc. Pt. (lbs)	L	12-02-14	12-02-14	Тор	461	298			n\a
6	J5(i3112)	Conc. Pt. (lbs)	L	13-02-14	13-02-14	Тор	411	267			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	26475 ft-lbs	55211 ft-lbs	48.0%	1	07-08-10
End Shear	8809 lbs	21696 lbs	40.6%	1	12-04-06
Total Load Deflection	L/390 (0.404")	n\a	61.5%	4	07-01-03
Live Load Deflection	L/612 (0.258")	n\a	58.8%	5	07-01-03
Max Defl.	0.404"	n\a	n\a	4	07-01-03
Span / Depth	13.3				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Hanger	4" x 5-1/4"	7415 lbs	n\a	28.9%	HGUS5.5/11.88	•
B2	Wall/Plate	4" x 5-1/4"	9679 lbs	34.5%	37.8%	Spruce-Pine-Fir	

Cautions

Header for the hanger HGUS5.5/11.88 is a Triple 1-3/4" x 14" LVL Beam.

Hanger model HGUS5.5/11.88 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBG 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-11-12, Bottom: 13-08-04.

POWER OF ON DWG NO. FAM 17899-21 STRUCTURAL COMPONENT ONLY

D-30: 1:





PASSED

July 19, 2021 15:30:10

2ND FLR FRAMING\Dropped Beams\B9A DR(i3067) (Dropped Beam)

BC CALC® Member Report

Build 7773

Job name:

Code reports:

Address: City, Province, Postal Code: BRAMPTON

Customer:

CCMC 12472-R

Dry | 1 span | No cant.

4504 EL A OPT..mmdl

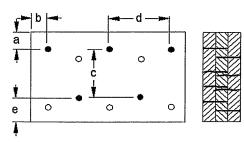
File name: Description: 2ND FLR FRAMING\Dropped Beams\B9A DR(i3067)

Specifier:

Designer: AJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

Tug "

c = 8 - 7/8" e minimum = "2"

Nailing applies to both sides of the member Connectors are: .

□ Nails

ARDOX SPIRAL

OVINCE OF ONE

146 NO. TAM 1894-21 STRUCTURAL COMPONENT ONLY

Disclosure

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B13A(i2540) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

Customer:

City, Province, Postal Code: BRAMPTON

File name: Description:

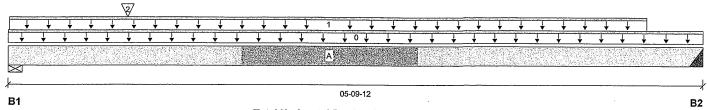
4504 EL A OPT..mmdl

2ND FLR FRAMING\Flush Beams\B13A(i2540)

Specifier:

Designer: ΑJ

Code reports: CCMC 12472-R Company:



Total Horizontal Product Length = 05-09-12

Reaction Summary (Down / Unlift) (lbs)

i todotion odi	minary (Domin' O	Pint) (180)			
Bearing	Live	Dead	Snow	Wind	
B1, 5-1/2"	1130 / 0	994 / 0			
B2, 4"	822 / 0	497 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-09-12	Тор		12			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-00-02	05-04-02	Top	340	170			n\a
2	B15(i2541)	Conc. Pt. (lbs)	L	01-00-00	01-00-00	Тор	123	507			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2750 ft-lbs	35392 ft-lbs	7.8%	1	03-04-02
End Shear	1792 lbs	14464 lbs	12.4%	1	01-05-06
Total Load Deflection	L/999 (0.01")	n\a	n\a	4	02-11-02
Live Load Deflection	L/999 (0.006")	n\a	n\a	5	02-11-02
Max Defl.	0.01"	n\a	n\a	4	02-11-02
Span / Depth	5.2				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 3-1/2"	2937 lbs	24.8%	12.5%	Spruce-Pine-Fir
B2	Hanger	4" x 3-1/2"	1855 lbs	n\a	10.9%	HGUS410

Cautions

Header for the hanger HGUS410 is a Single 1-3/4" x 11-7/8" LVL Beam.

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Concentrated side load(s) 5 are closer than 18" from end of member. Please consult a technical representative or Professional of Record.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00. Bottom: 01-01-08.

POWNEE OF ONLY

188 110.71H N 095-21 STRUCTURAL COMPONENT ONLY





2ND FLR FRAMING\Flush Beams\B13A(i2540) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name: Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer:

Code reports:

CCMC 12472-R

File name: 4504 EL A OPT..mmdl

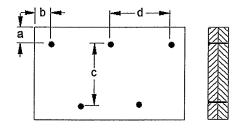
Description: 2ND FLR FRAMING\Flush Beams\B13A(i2540)

Specifier:

Designer: ΑJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8" d = 48 8 4

b minimum = 3"

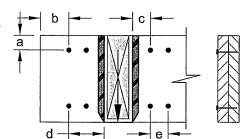
Calculated Side Load = 480.3 lb/ft

... Nails

Connectors are: 3½" ARDOX SPIRAL

Connection Diagrams: Concentrated Side Loads

Connection Tag: A Applies to load tag(s): 7+8



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

e minimum = 4"

Connectors are: 2 # 4

Nails

ARDOX SPIRAL



OWE NO. TAM 1785-21 STRUCTURAL

Disclosuf@MPONENT

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER® . AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Page 4 4 A





2ND FLR FRAMING\Flush Beams\B17A(i3028) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

Customer: Code reports:

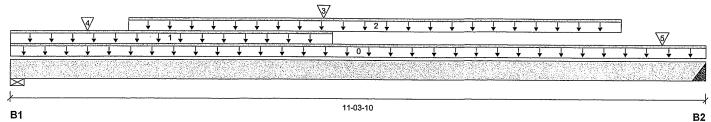
CCMC 12472-R

4504 EL A OPT..mmdl File name: Description: 2ND FLR FRAMING\Flush Beams\B17A(i3028)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 11-03-10

Reaction Summary (Down / Uplift) (Ibs)

Bearing	Live	Dead	Snow	Wind
B1, 5-1/2"	917 / 0	546 / 0		
R2 2"	754 / 0	451 / 0		

Lo	ad Summary		Live	Dead	Snow	Wind	Tributary				
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-03-10	Тор		6			00-00-00
1	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-00-00	05-02-10	Тор	24	12			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	01-11-02	09-11-02	Тор	73	36			n\a
3	B13A(i2540)	Conc. Pt. (lbs)	L	05-00-14	05-00-14	Тор	789	490			n\a
4	J4(i3054)	Conc. Pt. (lbs)	L	01-03-02	01-03-02	Top	81	40			n\a
5	J4(i3022)	Conc. Pt. (lbs)	L	10-07-02	10-07-02	Тор	85	43			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	7411 ft-lbs	17696 ft-lbs	41.9%	1	05-00-14
End Shear	1934 lbs	7232 lbs	26.7%	1	01-05-06
Total Load Deflection	L/658 (0.197")	n\a	36.5%	4	05-07-02
Live Load Deflection	L/999 (0.123")	n\a	n\a	5	05-07-02
Max Defl.	0.197"	n\a	n\a	4	05-07-02
Span / Depth	10.9				

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 1-3/4"	2059 lbs	34.8%	17.5%	Spruce-Pine-Fir
B2	Hanger	2" x 1-3/4"	1695 lbs	n\a	39.7%	LS90

Cautions

Header for the hanger LS90 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model LS90 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



146 110. TAN 1789621 STRUCTURAL COMPONENT ONLY





2ND FLR FRAMING\Flush Beams\B17A(i3028) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Customer:

Code reports:

Address: City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

CCMC 12472-R

File name:

4504 EL A OPT..mmdl

Description: 2ND FLR FRAMING\Flush Beams\B17A(i3028)

Specifier:

Designer: ΑJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.



COMPONENT ONLY

Disclosure

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BC CALC®, BC FRAMER® , AJS $^{\text{TM}}$ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

2120 3





Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B24A DR(i3077) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

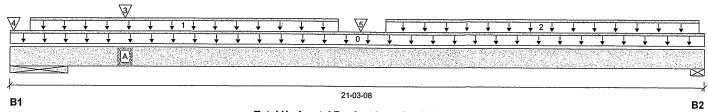
CCMC 12472-R

4504 EL A OPT..mmdl

File name: Description: 2ND FLR FRAMING\Flush Beams\B24A DR(i3077) Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 21-03-08

Reaction Summary (Down / Unlift) (lbs)

. todotion oun	may (Domin' O				
Bearing	Live	Dead	Snow	Wind	
B1, 21-1/2"	6061 / 0	3433 / 0			
B2, 4"	2842 / 0	1649 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L.	00-00-00	21-03-08	Тор		21			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-07-06	10-00-07	Тор	239	119			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	11-05-11	21-01-06	Тор	251	126			n\a
3	B9A DR(i3067)	Conc. Pt. (lbs)	L	03-06-08	03-06-08	Top	3306	1830			n\a
4	J2(i2542)	Conc. Pt. (lbs)	L	00-01-04	00-01-04	Top	315	157			n\a
5	J2(i2680)	Conc. Pt. (lbs)	L	10-08-10	10-08-10	Top	278	139			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	33608 ft-lbs	75348 ft-lbs	44.6%	1	10-08-10
End Shear	11756 lbs	25578 lbs	46.0%	1	02-11-08
Total Load Deflection	L/339 (0.683")	n\a	70.8%	4	10-09-14
Live Load Deflection	L/534 (0.433")	n\a	67.4%	5	10-09-14
Max Defl.	0.683"	n\a	n\a	4	10-09-14
Span / Depth	16.5				
Dist. Load (B1)	43.78 lb/ft	86467.66 lb/ft	n\a		
Conc. Load (B1)	673 lbs	25220 lbs	2.7%		

Bearing	յ Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	21-1/2" x 5-1/4"	13383 lbs	8.9%	9.7%	Spruce-Pine-Fir
B2	Wall/Plate	4" x 5-1/4"	6324 lbs	22.6%	24.7%	Spruce-Pine-Fir

Notes

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Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

ANENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 01-01-08, Bottom: 17-06-06.

TO VINCE OF ONE

WE HO. TAM 1897-21 STRUGTURAL COMPONENT ONLY





Triple 1-3/4" x 14" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B24A DR(i3077) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Customer:

Code reports:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name: Description:

4504 EL A OPT..mmdl

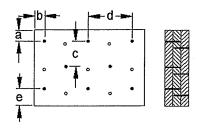
2ND FLR FRAMING\Flush Beams\B24A DR(i3077)

Specifier:

Designer:

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

... - ---

b minimum = 3"

d= 8" e minimum = 3"

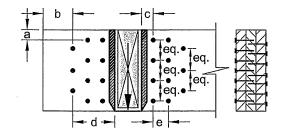
Nailing applies to both sides of the member

Connectors are:

312" ARDOX'SPIRAL

Connection Diagrams: Concentrated Side Loads

Connection Tag: A Applies to load tag(s): 12



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

e minimum = 4"

Nailing applies to both sides of the member

Connectors are: 16d Nails

ARDOX SPIRAL



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1ST FLR FRAMING\Flush Beams\B1A(i3048) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Customer:

Code reports:

Address: City, Province, Postal Code:

BC CALC® Member Report

BRAMPTON

CCMC 12472-R

Description:

Wind

4504 EL A OPT..mmdl

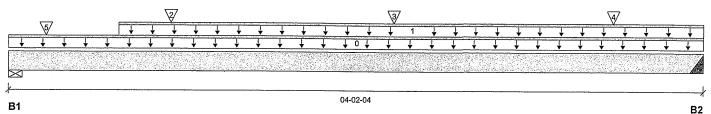
1ST FLR FRAMING\Flush Beams\B1A(i3048)

Specifier:

File name:

Designer: ΑJ

Company:



Total Horizontal Product Length = 04-02-04

Reaction Summary (Down / Uplift) (lbs)

Bear	ing	Live	Dead	Snow	
B1, 5	5-1/2"	2191 / 0	1565 / 0		
B2, 2	2"	1120 / 0	572 / 0		

Lo	ad Summary						Live	Dead	;
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-02-04	Тор		6	_
1	WALL	Unf. Lin. (lb/ft)	L	00-08-00	04-02-04	Тор	240	120	
2	J1(i2996)	Conc. Pt. (lbs)	L	00-11-12	00-11-12	Тор	455	227	
3	J1(i3032)	Conc. Pt. (lbs)	L	02-03-12	02-03-12	Top	455	227	
4	J1(i3041)	Conc. Pt. (lbs)	L	03-07-12	03-07-12	Top	393	197	
5	6(i1175)	Conc. Pt. (lbs)	L	00-02-12	00-02-12	Тор	1163	1038	

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2219 ft-lbs	17696 ft-lbs	12.5%	1	02-03-12
End Shear	1731 lbs	7232 lbs	23.9%	1	01-05-06
Total Load Deflection	L/999 (0.008")	n\a	n\a	4	02-03-02
Live Load Deflection	L/999 (0.005")	n\a	n\a	5	02-03-02
Max Defl.	0.008"	n\a	n\a	4	02-03-02
Span / Depth	3.7				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 1-3/4"	5242 lbs	88.5%	44.6%	Spruce-Pine-Fir
B2	Hanger	2" x 1-3/4"	2395 lbs	n\a	56.1%	HUS1.81/10

Cautions

Header for the hanger HUS1.81/10 is a Single 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

도 _{그는} ~ 그 사

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA 086.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate Of expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®. BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,



146 HO. TAM N 898-21 STRUCTURAL COMPONENT

Snow

1.00

Wind

1.15

Tributary





1ST FLR FRAMING\Flush Beams\B22A(i2989) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

CCMC 12472-R

File name:

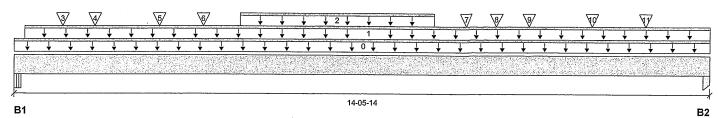
4504 EL A OPT..mmdl

1ST FLR FRAMING\Flush Beams\B22A(i2989)

Description: Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 14-05-14

Reaction Summary (Down / Uplift) (lbs)

. todotion our	a., (201111, Of	3111t) (120)		
Bearing	Live	Dead	Snow	Wind
B1, 5-1/4"	2272 / 0	1224 / 0		
B2, 1-3/4"	2208 / 0	1188 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-05-14	Тор		12			00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-10	14-05-14	Тор	8	4			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	04-08-06	08-08-06	Top	332	166			n\a
3	J1DJ(i2988)	Conc. Pt. (lbs)	L	01-00-02	01-00-02	Тор	264	132			n\a
4	J2(i2859)	Conc. Pt. (lbs)	L	01-08-02	01-08-02	Тор	307	153			n\a
5	J2(i2933)	Conc. Pt. (lbs)	L	03-00-02	03-00-02	Тор	345	173			n\a
6	J1DJ(i2984)	Conc. Pt. (lbs)	L	03-11-02	03-11-02	Тор	403	201			n\a
7	J1(i3012)	Conc. Pt. (lbs)	L	09-04-06	09-04-06	Top	322	161			n\a
8	J1DJ(i3050)	Conc. Pt. (lbs)	L	10-00-02	10-00-02	Тор	239	119			n\a
9	J2(i2859)	Conc. Pt. (lbs)	L	10-08-06	10-08-06	Тор	310	155			n\a
10	J2(i2933)	Conc. Pt. (lbs)	L	12-00-06	12-00-06	Тор	342	171			n\a
11	-	Conc. Pt. (lbs)	L.	13-01-15	13-01-15	Тор	505	252			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	17752 ft-lbs	35392 ft-lbs	50.2%	1	08-00-06
End Shear	4752 lbs	14464 lbs	32.9%	1	13-04-04
Total Load Deflection	L/369 (0.457")	n\a	65.1%	4	07-04-06
Live Load Deflection	L/566 (0.298")	n\a	63.6%	5	07-04-06
Max Defl.	0.457"	n\a	n\a	4	07-04-06
Span / Depth	14 2				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	5-1/4" x 3-1/2"	4938 lbs	50.3%	22.0%	Unspecified
B2	Column	1-3/4" x 3-1/2"	4797 lbs	96.4%	64.2%	Unspecified

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.



INCHO.TAM 17899 STRUGTURAL COMPONENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1ST FLR FRAMING\Flush Beams\B22A(i2989) (Flush Beam)

PASSED

BC CALC® Member Report

Build 7773

Dry | 1 span | No cant.

July 19, 2021 15:30:10

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

4504 EL A OPT..mmdl File name:

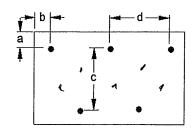
Description: 1ST FLR FRAMING\Flush Beams\B22A(i2989)

Specifier:

Designer: ΑJ

Company:

Connection Diagram: Full Length of Member



a minimum = 2"

c = 7-7/8"

b minimum = 3"

d = @ 6 4

Calculated Side Load = 1059.8 lb/ft

July 1

312" ARDOX SPIRAL



Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.





1ST FLR FRAMING\Flush Beams\B4A(i2997) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

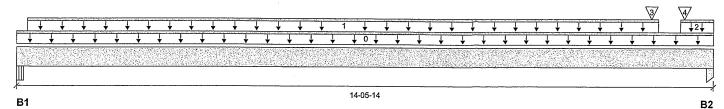
4504 EL A OPT..mmdl

Description: 1ST FLR FRAMING\Flush Beams\B4A(i2997)

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 14-05-14

Reaction Summary (Down / Unlift) (lbs)

i todotion odn					
Bearing	Live	Dead	Snow	Wind	
B1, 5-1/4"	350 / 0	276 / 0			
B2, 4-1/4"	5269 / 0	3273 / 0			

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	-
. 0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	14-05-14	Тор		12			00-00-00
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-10	13-04-06	Тор	27	13			n\a
2	5(i323)	Unf. Lin. (lb/ft)	L	13-09-10	14-05-14	Top		81			n\a
3	B5(i3056)	Conc. Pt. (lbs)	L	13-02-10	13-02-10	Тор	897	475			n\a
4	5(i323)	Conc. Pt. (lbs)	L	13-10-10	13-10-10	Тор	4350	2658			n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	5104 ft-lbs	35392 ft-lbs	14.4%	1	12-02-12
End Shear	4421 lbs	14464 lbs	30.6%	1	13-01-12
Total Load Deflection	L/999 (0.119")	n\a	n\a	4	08-00-04
Live Load Deflection	L/999 (0.07")	n\a	n\a	5	08-00-04
Max Defl.	0.119"	n\a	n\a	4	08-00-04
Span / Depth	14.0				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Beam	5-1/4" x 3-1/2"	870 lbs	8.9%	3.9%	Unspecified
B2	Column	4-1/4" x 3-1/2"	11995 lbs	99.4%	66.1%	Unspecified

Cautions

Concentrated side load(s) 2 are closer than 18" from end of member. Please consult a technical representative or Professional of Record.

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 12-07-10.



UVG HO. TAM 17900-21 STRUCTURAL COMPONENT ONLY

-- . A





1ST FLR FRAMING\Flush Beams\B4A(i2997) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address: City, Province, Postal Code: BRAMPTON

BC CALC® Member Report

File name: Description:

4504 EL A OPT..mmdl

1ST FLR FRAMING\Flush Beams\B4A(i2997)

Specifier:

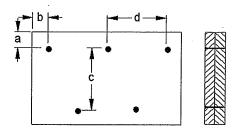
Designer: ΑJ

Company:

Customer: Code reports:

CCMC 12472-R

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" d = 6 4

· Nails

Connectors are: ARDOX SPIRAL

> SONNICE OF 9W6 HO. FAM 17900=21 STRUCTURAL COMPONENT ONLY

Disclosure

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Single 1-3/4" x 11-7/8" VERSA-LAM® 2,0 3100 SP

1ST FLR FRAMING\Flush Beams\B6A(i3019) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 15:30:10

PASSED

Build 7773

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

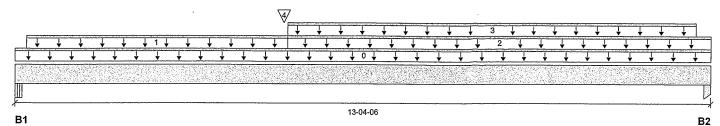
File name: Description: 4504 EL A OPT..mmdl

1ST FLR FRAMING\Flush Beams\B6A(i3019)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 13-04-06

Reaction Summary (Down / Uplift) (lbs)

	(~~ ~	r			
Bearing	Live	Dead	Snow	Wind	
B1, 5-1/4"	760 / 0	547 / 0			
B2. 3-1/2"	480 / 0	591 / 0			

Loa	ld Summary						Live	Dead	Snow
	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-04-06	Тор		6	
1	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-02-10	05-02-10	Тор	27	13	
2	FC1 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	05-02-10	13-04-06	Тор	16	8	1 0 PR
3	WALL	Unf. Lin. (lb/ft)	L	05-02-10	13-00-14	Тор		60 ,	ID D
4	B1A(i3048)	Conc. Pt. (lbs)	L	05-01-12	05-01-12	Тор	978	456	

		Factored	Demand/		
Controls Summary	Factored Demand	Resistance	Resistance	Case	Location
Pos. Moment	7918 ft-lbs	17696 ft-lbs	44.7%	1	05-01-12
End Shear	1745 lbs	7232 lbs	24.1%	1	01-05-02
Total Load Deflection	L/521 (0.294")	n\a	46.1%	4	06-06-01
Live Load Deflection	L/951 (0.161")	n\a	37.8%	5	06-03-08
Max Defl.	0.294"	n\a	n\a	4	06-06-01
Span / Depth	12.9				

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material	
B1	Beam	5-1/4" x 1-3/4"	1824 lbs	37.2%	16.3%	Unspecified	
B2	Column	3-1/2" x 1-3/4"	1460 lbs	29 3%	19.5%	Unspecified	

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 07-10-04.



Wind

1.15

Tributary

00-00-00 n\a

Disclosure

CANFORMS TO OBG 2012

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BC CALC®. BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B19B(i1817) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 16:05:31

PASSED

Build 7773

Job name:

Customer:

Address:

Code reports:

City, Province, Postal Code: BRAMPTON

File name:

Designer:

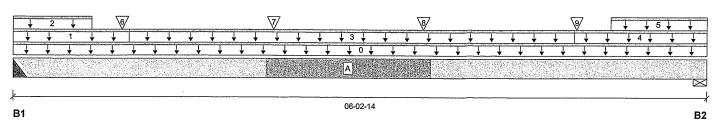
4504 EL B.mmdl

ΑJ

Description: 2ND FLR FRAMING\Flush Beams\B19B(i1817)

Specifier:

CCMC 12472-R Company:



Total Horizontal Product Length = 06-02-14

Reaction Summary (Down / Uplift) (lbs)

		1			
Bearing	Live	Dead	Snow	Wind	
B1, 4"	451 / 0	640 / 0	243 / 0		
B2, 4-3/8"	418 / 0	627 / 0	243 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	_	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-02-14	Тор		12			00-00-00
1	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	01-00-08	Тор		81			n\a
2	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	00-08-08	Тор		42	78		n\a
3	E16(i1162)	Unf. Lin. (lb/ft)	L	01-00-08	05-00-08	Тор		61			n\a
4	E17(i1163)	Unf. Lin. (lb/ft)	L	05-00-08	06-02-14	Top		81			n\a
5	E17(i1163)	Unf. Lin. (lb/ft)	L	05-04-08	06-02-14	Top		42	78		n\a
6	_	Conc. Pt. (lbs)	L	00-11-12	00-11-12	Top	210	239	184		n\a
7	J2(i1847)	Conc. Pt. (lbs)	L	02-04-00	02-04-00	Top	225	113			n\a
8	J2(i1781)	Conc. Pt. (lbs)	L	03-08-00	03-08-00	Top	225	113			n\a
9	•	Conc. Pt. (lbs)	L	05-00-12	05-00-12	Top	209	236	180		n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
				Case	
Pos. Moment	2070 ft-lbs	35392 ft- l bs	5.8%	1	03-07-00
End Shear	1414 lbs	14464 lbs	9.8%	1	04-10-10
Total Load Deflection	L/999 (0.01")	n\a	n\a	35	03-01-00
Live Load Deflection	L/999 (0.005")	n\a	n\a	51	03-01-00
Max Defl.	0.01"	n\a	n\a	35	03-01-00
Span / Depth	5.7				

Вє	earing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	4" x 3-1/2"	1720 lbs	n\a	10.1%	HGUS410
B2	Wall/Plate	4-3/8" x 3-1/2"	1654 lbs	17.6%	8.9%	Spruce-Pine-Fir

Cautions

الأرواء والمرازي

Header for the hanger HGUS410 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.



STRUCTURAL COMPORENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B19B(i1817) (Flush Beam)

Dry | 1 span | No cant.

July 19, 2021 16:05:31

PASSED

Build 7773

Job name: Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

4504 EL B.mmdl

Description: Specifier:

Designer: ΑJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Unbalanced snow loads determined from building geometry were used in selected product's

verification.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

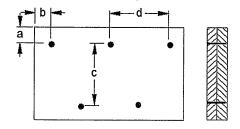
Calculations assume unbraced length of Top: 00-00-00. Bottom: 01-01-08.

CONFORMS TO OBC 2012

2ND FLR FRAMING\Flush Beams\B19B(i1817)

AMENDED 2020

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3" c = 7-7/8" d = 200 B

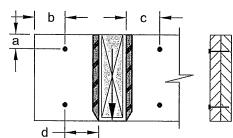
Calculated Side Load = 223.1 lb/ft

Connectors are:

.... Nails

Connection Diagrams: Concentrated Side Loads

Connection Tag: A Applies to load tag(s): 14+15



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

Connectors are

Nails

ARDOX SPIRAL



STRUGTURAL COMPORENT ONLY

Disclosure

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BC CALC®, BC FRAMER® , AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®. VERSA-LAM®, VERSA-RIM PLUS®,





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B19C(i3157) (Flush Beam)

PASSED

July 19, 2021 16:24:27

BC CALC® Member Report

Build 7773 Job name:

Address:

Code reports:

City, Province, Postal Code: BRAMPTON

Customer:

Dry | 1 span | No cant.

4504 EL C OPT..mmdl

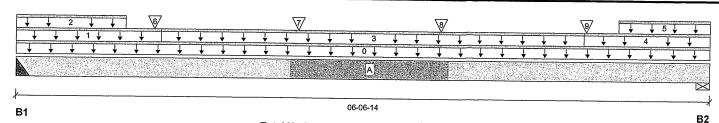
File name:

Description: 2ND FLR FRAMING\Flush Beams\B19C(i3157)

Specifier:

Designer: ΑJ

CCMC 12472-R Company:



Total Horizontal Product Length = 06-06-14

Reaction Summary (Down / Uplift) (lbs)

	\	(100)			
Bearing	Live	Dead	Snow	Wind	
B1, 4"	449 / 0	662 / 0	257 / 0		· · · · · · · · · · · · · · · · · · ·
B2, 4-3/8"	448 / 0	664 / 0	256 / 0		

Loa	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag		Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-06-14	Top		12		1110	00-00-00
1	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	01-04-08	Top		81			n\a
2	E15(i1159)	Unf. Lin. (lb/ft)	L	00-00-00	01-00-08	Top		42	78		n\a
3	E16(i1162)	Unf. Lin. (lb/ft)	L	01-04-08	05-04-08	Тор		61	, 0		n\a
4	E17(i1163)	Unf. Lin. (lb/ft)	L	05-04-08	06-06-14	- 1-		81			n\a
5	E17(i1163)	Unf. Lin. (lb/ft)	L	05-08-08	06-06-14	- 1-		42	78		n\a
6	-	Conc. Pt. (lbs)	L	01-03-12	01-03-12	-	238	253	184		n\a n\a
7	J3(i3186)	Conc. Pt. (lbs)	L	02-08-00	02-08-00	Top	225	113	104		
8	J3(i3135)	Conc. Pt. (lbs)	I.	04-00-00	04-00-00	Top	225	113			n\a
9	- '	Conc. Pt. (lbs)	L	05-04-12	05-04-12	Тор	209	236	180		n∖a n∖a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2378 ft-lbs	35392 ft-lbs	6.7%	1	02-09-00
End Shear	1549 lbs	14464 lbs	10.7%	1	01-03-14
Total Load Deflection	L/999 (0.012")	n\a	n\a	35	03-03-00
Live Load Deflection	L/999 (0.006")	n\a	n\a	51	03-03-00
Max Defl.	0.012"	n\a	n\a	35	03-03-00
Span / Depth	6.1	•		,,,	22 23 00

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	4" x 3-1/2"	1757 lbs	n\a	10.3%	HGUS410
B2	Wall/Plate	4-3/8" x 3-1/2"	1758 lbs	18.7%	9.4%	Spruce-Pine-Fir

Cautions

Header for the hanger HGUS410 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HGUS410 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

WANCE OF 146 110. TAN 1903-21 STRUCTURAL

COMPONENT ONLY





Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B19C(i3157) (Flush Beam)

PASSED

July 19, 2021 16:24:27

BC CALC® Member Report

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer:

Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

File name: 4504 EL C OPT..mmdl

Description: 2ND FLR FRAMING\Flush Beams\B19C(i3157)

Specifier:

Designer: ΑJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

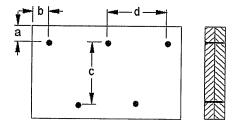
Unbalanced snow loads determined from building geometry were used in selected product's

verification.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-02-12.

Connection Diagram: Full Length of Member



a minimum = 2" b minimum = 3"

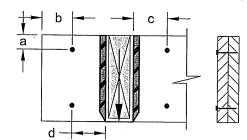
Calculated Side Load = 252.9 lb/ft

Connectors are:

312" ARDOX SPIRAL

Connection Diagrams: Concentrated Side Loads

Connection Tag: A Applies to load tag(s): 14+15



a minimum = 2"

b minimum = 4"

c minimum = 4"

d maximum = 12"

Connectors are: Nails

ARDOX SPIRAL



STRUCTURAL COMPONENT ONLY

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™. ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®.





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B3(i1761) (Flush Beam)

Dry | 1 span | No cant.

August 9, 2021 16:35:03

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

File name: Description:

Specifier:

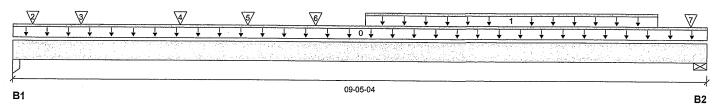
4504 EL A.mmdl

1ST FLR FRAMING\Flush Beams\B3(i1761)

Customer: Code reports:

CCMC 12472-R

Designer: ΑJ Company:



Total Horizontal Product Length = 09-05-04

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 3-1/2"	1529 / 0	792 / 0		
B2, 5-1/2"	1354 / 0	732 / 0		

Loa	ad Summary						Live	Dead
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-05-04	Top		6
1	Smoothed Load	Unf. Lin. (lb/ft)	L	04-09-04	08-09-04	Top	327	164
2	J3DJ(i1767)	Conc. Pt. (lbs)	L	00-03-04	00-03-04	Top	229	114
3	J4(i1775)	Conc. Pt. (lbs)	L	00-11-04	00-11-04	Тор	307	153
4	J4(i1774)	Conc. Pt. (lbs)	L	02-03-04	02-03-04	Top	345	173
5	J3DJ(i1770)	Conc. Pt. (lbs)	L	03-02-04	03-02-04	Top	318	159
6	J3(i1759)	Conc. Pt. (lbs)	L	04-01-04	04-01-04	Тор	366	183
7	E7(i314)	Conc. Pt. (lbs)	L	09-02-08	09-02-08	Тор		30 🔏

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6749 ft-lbs	17696 ft-lbs	38.1%	1	04-01-04
End Shear	2775 lbs	7232 lbs	38.4%	1	07-11-14
Total Load Deflection	L/773 (0.137")	n\a	31.0%	4	04-07-04
Live Load Deflection	L/999 (0.09")	n\a	n\a	5	04-07-04
Max Defl.	0.137"	n\a	n\a	4	04-07-04
Span / Depth	8.9				

Beari	ng Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Column	3-1/2" x 1-3/4"	3284 lbs	66.0%	43.9%	Unspecified
B2 ·	Wall/Plate	5-1/2" x 1-3/4"	2946 lbs	49.7%	25.1%	Spruce-Pine-Fir

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBC 2012

Resistance Factor phi has been applied to all presented results per CSA 086. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

n∖a ı\a NOTINGE OF OTHER UNG 110. TAM 17904 STRUCTURA COMPONENT **Disclosure**

Snow

1.00

Wind

1.15

Tributary

00-00-00 n∖a n∖a n\a n\a

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BC CALC®, BC FRAMER® , AJS™ ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B8(i1819) (Flush Beam)

Dry | 1 span | No cant.

August 9, 2021 16:35:03

Build 7773

Job name:

Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

File name:

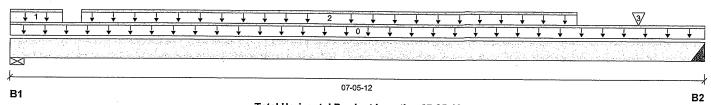
4504 EL A.mmdi

1ST FLR FRAMING\Flush Beams\B8(i1819)

Description: Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 07-05-12

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B1, 6-3/4"	888 / 0	513 / 0		,
B2 2"	639 / 0	341 / 0		

Lo: Tag	ad Summary Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow	Wind	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	07-05-12			6	1.00	1.10	00-00-00
1	E11(i306)	Unf. Lin. (lb/ft)	L	00-00-00	00-06-12		488	325			n\a
2	Smoothed Load	Unf. Lin. (lb/ft)	L	00-09-04	06-01-04	Top	195	98			n\a
3	J5(i1949)	Conc. Pt. (lbs)	L	06-09-04	06-09-04	Top	213	107			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2541 ft-lbs	17696 ft-lbs	14.4%	1	04-01-04
End Shear	1259 lbs	7232 lbs	17.4%	1	01-06-10
Total Load Deflection	L/999 (0.031")	n\a	n\a	4	03-11-04
Live Load Deflection	L/999 (0.02")	n\a	n\a	5	03-11-04
Max Defl.	0.031"	n\a	n\a	4	03-11-04
Span / Depth	6.9				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	6-3/4" x 1-3/4"	1974 lbs	27.2%	13.7%	Spruce-Pine-Fir
B2	Hanger	2" x 1-3/4"	1385 lbs	n\a	32.4%	HUS1.81/10

1WG KO. TAM 1905 -21 STRUGTURAL COMPONENT ONLY

OVINCE OF OU

Cautions

Header for the hanger HUS1.81/10 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

. Ti.,

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO DBC 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

Disclosure

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PASSED





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B14(i1968) (Flush Beam)

PASSED

August 9, 2021 16:35:03

BC CALC® Member Report

Build 7773

Job name: Address:

City, Province, Postal Code: BRAMPTON

Customer: Code reports:

CCMC 12472-R

Dry | 1 span | No cant.

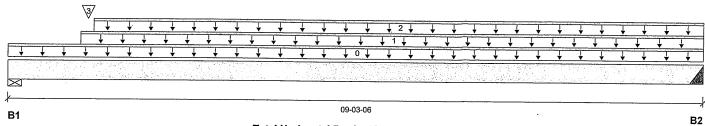
File name: 4504 EL A.mmdl Description: 2ND FLR FRAMING\Flush Beams\B14(i1968)

Wind

Specifier:

Designer: AJ

Company:



Total Horizontal Product Length = 09-03-06

Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow
B1, 5-1/2"	192 / 0	732 / 0	
B2 2"	110 / 0	382 / 0	

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	•
0 -	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-03-06	Top		6			00-00-00
1	WALL	Unf. Lin. (lb/ft)	L	00-11-11	09-03-06	Top		60			n\a
2	FC2 Floor Decking (Plan	Unf. Lin. (lb/ft)	L	01-01-12	09-03-06	Тор	23	11			n\a
3	View Fill) B15(i1982)	Conc. Pt. (lbs)	1	01_00_14	01-00-14	Ton	115	166		- TESE	ion.

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1266 ft-lbs	11502 ft-lbs	11.0%	0	04-04-07
End Shear	765 lbs	4701 lbs	16.3%	0	01-05-06
Total Load Deflection	L/999 (0.034")	n\a	n\a	4	04-08-03
Live Load Deflection	L/999 (0.007")	n\a	n\a	5	04-08-03
Max Defl.	0.034"	n\a	n\a	4	04-08-03
Span / Depth	8.9				

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Wall/Plate	5-1/2" x 1-3/4"	1025 lbs	26.6%	13.4%	Spruce-Pine-Fir
B2	Hanger	2" x 1-3/4"	535 lbs	n\a	19.3%	HUS1.81/10

Cautions

Header for the hanger HUS1.81/10 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Notes

 $\hat{E}_{(s_{i}^{k})_{i}}$

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONVORMS TO OBE 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 08-01-10.

Disclosure

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Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

2ND FLR FRAMING\Flush Beams\B15(i1982) (Flush Beam)

Dry | 1 span | No cant.

August 9, 2021 16:35:03

PASSED

Build 7773

Job name:

Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

File name:

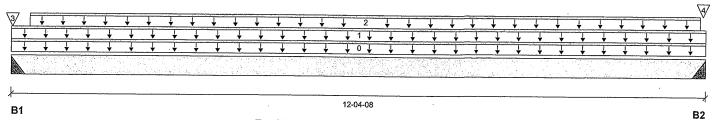
4504 EL A.mmdl

2ND FLR FRAMING\Flush Beams\B15(i1982) Description:

Specifier:

Designer: ΑJ

Company:



Total Horizontal Product Length = 12-04-08

Reaction Sui	mmary (Down / U	piiπ) (ibs)		
Bearing	Live	Dead	Snow	Wind
B1, 2"	126 / 0	472 / 0		
B2 2"	115 / 0	466 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-04-08	Тор		6			00-00-00
1	WALL	Unf. Lin. (lb/ft)	L	00-00-00	12-04-08	Тор		60			n\a
2	FC2 Floor Decking (Plan View Fill)	Unf. Lin. (lb/ft)	L	00-04-00	12-03-04	Тор	18	9			n\a
3	FC2 Floor Decking (Plan View Fill)	Conc. Pt. (lbs)	L	00-00-04	00-00-04	Тор	19	10			n\a
4	FC2 Floor Decking (Plan View Fill)	Conc. Pt. (lbs)	L	12-03-14	12-03-14	Тор	4				n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	1947 ft- l bs	11502 ft-lbs	16.9%	0	06-03-04
End Shear	540 lbs	4701 lbs	11.5%	0	01-01-14
Total Load Deflection	L/999 (0.094")	n\a	n\a	4	06-03-04
Live Load Deflection	L/999 (0.018")	n\a	n\a	5	06-03-04
Max Defl.	0.094"	n\a	n\a	4	06-03-04
Span / Depth	12.3			•	22 30 0 1

Bearing	g Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Hanger	2" x 1-3/4"	660 lbs	n\a	23.8%	HUS1.81/10
B2	Hanger	2" x 1-3/4"	653 lbs	n\a	23.5%	HUS1.81/10

Cautions

Header for the hanger HUS1.81/10 is a Double 1-3/4" x 11-7/8" LVL Beam.

Hanger model HUS1.81/10 and seat length were input by the user. Hanger has not been analyzed for adequate capacity.

Header for the hanger HUS1.81/10 is a Single 1-3/4" \times 11-7/8" LVL Beam.



DWG HO. TAM 1990 - 21 STRUGTURAL COMPONENT ONLY





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 2ND FLR FRAMING\Flush Beams\B15(i1982) (Flush Beam)

PASSED

BC CALC® Member Report

Build 7773

Job name: Address:

Customer:

Code reports:

City, Province, Postal Code: BRAMPTON

CCMC 12472-R

Dry | 1 span | No cant.

August 9, 2021 16:35:03

File name: 4504 EL A.mmdl

Description: 2ND FLR FRAMING\Flush Beams\B15(i1982)

Specifier:

Designer: AJ

Company:

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

Design meets Code minimum (L/360) Live load deflection criteria.

CONFORMS TO OBE 2012

Hanger Manufacturer: Unassigned

Resistance Factor phi has been applied to all presented results per CSA O86.

AMENDED 2020

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 12-04-08.



Disclosure

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BC CALC®, BC FRAMER®, AJS™. ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,





Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP

1ST FLR FRAMING\Flush Beams\B3A(i3191) (Flush Beam)

Dry | 1 span | No cant.

August 9, 2021 17:14:53

PASSED

Build 7773

Job name:

Address:

BC CALC® Member Report

City, Province, Postal Code: BRAMPTON

Customer:

Code reports:

CCMC 12472-R

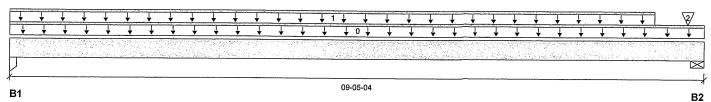
File name: 4504 EL A OPT..mmdl

Description: 1ST FLR FRAMING\Flush Beams\B3A(i3191)

Specifier:

Designer:

Company:



Total Horizontal Product Length = 09-05-04

Reaction Summary (Down / Uplift) (lbs)

	(•••••		
Bearing	Live	Dead	Snow	Wind
B1, 2-5/8"	1669 / 0	863 / 0		······································
B2 5-1/2"	1362 / 0	736 / 0		

Lo	ad Summary						Live	Dead	Snow	Wind	Tributary
Tag	Description	Load Type	Ref.	Start	End	Loc.	1.00	0.65	1.00	1.15	
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-05-04	Тор		6			00-00-00
1	Smoothed Load	Unf. Lin. (lb/ft)	L	00-00-00	08-09-04	Top	345	172			n\a
2	E7(i314)	Conc. Pt. (lbs)	L	09-02-08	09-02-08	Top		30		*	n\a

Controls Summary	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6886 ft-lbs	17696 ft-lbs	38.9%	1	04-01-04
End Shear	2795 lbs	7232 lbs	38.6%	1	07-11-14
Total Load Deflection	L/755 (0.141")	n\a	31.8%	4	04-07-04
Live Load Deflection	L/999 (0.093")	n\a	n\a	5	04-07-04
Max Defl.	0.141"	n\a	n\a	4	04-07-04
Span / Depth	9.0				

Beari	ing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B1	Column	2-5/8" x 1-3/4"	3581 lbs	96.0%	63.9%	Unspecified
B2	Wall/Plate	5-1/2" x 1-3/4"	2964 lbs	50.1%	25.2%	Spruce-Pine-Fir

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19/3
MCOMARDS E
S. KATSOULAKUS S
O'Morros O'S
NOTE OF ONE
The second secon
946 HO. TAN 17908-21
LARUTTURAL
COMPONENT ONLY

Notes

Design meets Code minimum (L/240) Total load deflection criteria.

CONFORMS TO DBC 2012 Design meets Code minimum (L/360) Live load deflection criteria.

Resistance Factor phi has been applied to all presented results per CSA O86. AMENDED 2020 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA 086.

Design based on Dry Service Condition. Importance Factor: Normal Part code: Part 9

Calculations assume unbraced length of Top: 00-00-00, Bottom: 01-01-08.

Disclosure

Use of the Boise Cascade Software is subject to the terms of the End User License Agreement (EULA). Completeness and accuracy of input must be reviewed and verified by a qualified engineer or other appropriate expert to assure its adequacy, prior to anyone relying on such output as evidence of suitability for a particular application. The output here is based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered wood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call (800)232-0788 before installation.

BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

Maximum Floor Spans - S2.1

Design Criteria

Spans:

Simple span

Loads:

Live load = 40 psf and dead load = 15 psf

Deflection limits:

L/480 under live load and L/240 under total load

Sheathing:

5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

			E	Bare		1/2 in. gy	psum ceiling			
Joist depth	Joist series		On cent	re spacing		On centre spacing				
		12"	16"	19.2"	24"	12"	16"	19.2"	24"	
	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	-	
9-1/2"	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-	
	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	_	
	NI-80	17'-3"	16'-3"	15'-8"	-	17'-8"	16'-7"	16'-0"	_	
	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	_	
	NI-40x	18'-2"	17'-1"	16'-6"	_	18'-9"	17'-6"	16'-11"	-	
11-7/8"	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	-	
	NI-80	19'-9"	18'-3"	17'-7"	- *	20'-4"	18'-10"	18'-0"	-	
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	_	
	NI-40x	20'-1"	18'-8"	17'-10"	_	20'-10"	19'-4"	18'-6"	-	
14"	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	_	
1-7	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-	
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	_	
-	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-	
16"	NI-80	23'-11"	22'-1"	21'-1"	_	24'-8"	22'-10"	21'-9"	_	
	NI-90	24'-5"	22'-6"	21'-6"	-	25'-1"	23'-2"	22'-2"	_	

		M	d-span blockin	g with 1x4 inch s	trap	Mid-s	oan blocking ar	nd 1/2 in. gypsum	ceiling	
Joist depth	Joist series		On cent	re spacing		On centre spacing				
		12"	16"	19.2"	24"	12"	16"	19.2"	24"	
	NI-20	16'-8"	15'-3"	14'-5"	-	16'-8"	15'-3"	14'-5"	-	
9-1/2"	NI-40x	17'-11"	17'-0"	16'-1"	-	18'-5"	17'-1"	16'-1"	-	
J-112	NI-60	18'-2"	17'-1"	16'-4"	-	18'-8"	17'-4"	16'-4"	_	
	NI-80	19'-5"	18'-0"	17'-5"	-	19'-10"	18'-5"	17'-8"	-	
	NI-20	19'-7"	18'-2"	17'-3"	-	19'-11"	18'-3"	17'-3"	-	
	NI-40x	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-2"	-	
11-7/8"	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	_	
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	_	
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	_	
	NI-40x	23'-8"	21'-11"	20'-11"	-	24'-4"	22'-8"	21'-8"	-	
14"	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-11"	_	
14	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-	
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	_	
	NI-60	26'-5"	24'-6"	23'-5"	-	27'-2"	25'-3"	24'-2"		
16"	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	_	
	NI-90	28'-8"	26'-6"	25'-3"	_	29'-3"	27'-2"	25'-11"	_	

Notes

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

Maximum Floor Spans - S4.1

Design Criteria

Spans:

Simple span

Loads:

Live load = 40 psf and dead load = 15 psf

Deflection limits:

L/480 under live load and L/240 under total load

Sheathing:

3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

			E	Bare			1/2 in. gy	psum ceiling	
Joist depth	Joist series		On cent	tre spacing			On cent	re spacing	
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	15'-2"
J-1/2	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-2"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
11-7/8"	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
14"	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
14	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
16"	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

		Mi	d-span blockin	g with 1x4 inch	strap	Mid-s	oan blocking an	ıd 1/2 in. gypsu	m ceiling
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	_
		t series 12" -20	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	16'-10"	15'-5"	14'-6"	13'-5"	16'-10"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	18'-8"	17'-2"	16'-3"	15'-2"	18'-10"	17'-2"	16'-3"	15'-2"
9-1/2	NI-60	18'-11"	17'-6"	16'-6"	15'-5"	19'-2"	17'-6"	16'-6"	15'-5"
	NI-80	20'-3"	18'-10"	17'-11"	16'-10" 20'-8" 16'-2" 20'-1"	19'-3"	18'-2"	16'-10'	
	NI-20	20'-1"	18'-5"	17'-5"	16'-2"	20'-1"	18'-5"	17'-5"	16'-2"
	NI-40x	21'-10"	20'-4"	19'-4"	17'-8"	22'-5"	20'-6"	19'-4"	17'-8"
11-7/8"	NI-60	22'-1"	20'-7"	19'-8"	18'-4"	22'-8"	20'-10"	19'-8"	18'-4"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-0"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-7"
	NI-40x	24'-5"	22'-9"	21'-9"	19'-5"	25'-1"	23'-2"	21'-9"	19'-5"
14"	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-8"	22'-4"	20'-10'
1-4	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	24'-9"	23'-1"
16"	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

Notes

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

Maximum Floor Spans - S6.1

Design Criteria

Spans:

Simple span

Loads:

Live load = 40 psf and dead load = 15 psf

Deflection limits:

L/480 under live load and L/240 under total load

Sheathing:

5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

			E	Bare			1/2 in. gy	psum ceiling	
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"	
9-1/2"	NI-40x	15'-11"	15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	_
0 1/2	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-1"	_
	NI-80	17'-1"	16'-1"	15'-6"	-	17'-5"	16'-5"	15'-10"	-
	NI-20	16'-9"	15'-10"	15'-4"	-	17'-4"	16'-4"	15'-10"	-
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-6"	17'-4"	16'-9"	_
11-7/8"	NI-60	18'-1"	17'-0"	16'-5"	-	18'-9"	17'-6"	16'-11"	_
	NI-80	19'-6"	18'-0"	17'-4"	-	20'-1"	18'-7"	17'-9"	_
	NI-90	19'-11"	18'-4"	17'-8"	-	20'-5"	18'-11"	18'-1"	_
	NI-40x	19'-10"	18'-4"	17'-8"	-	20'-6"	19'-1"	18'-3"	
14"	NI-60	20'-2"	18'-8"	17'-11"	-	20'-10"	19'-4"	18'-6"	-
14	NI-80	21'-8"	20'-0"	19'-1"	-	22'-4"	20'-8"	19'-9"	_
	NI-90	22'-1"	20'-5"	19'-6"	-	22'-9"	21'-0"	20'-1"	_
	NI-60	22'-0"	20'-4"	19'-6"	-	22'-9"	21'-1"	20'-2"	-
16"	NI-80	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-6"	` _
	NI-90	24'-1"	22'-2"	21'-2"	_	24'-9"	22'-11"	21'-10"	_

		Mi	d-span blockin	with 1x4 inch s	trap	Mid-s	pan blocking ar	d 1/2 in. gypsum	ceiling
Joist depth	Joist series		On cent	re spacing		On centre spacing			
		12" 16" 19.3 0 16'-6" 15'-1" 14'-: 0x 17'-9" 16'-10" 15' 0 17'-11" 16'-11" 16'-2 0 19'-3" 17'-10" 17'-3 0 19'-4" 18'-0" 17'-1 0x 20'-10" 19'-4" 18'-6 0 21'-1" 19'-7" 18'-6 0 22'-6" 20'-10" 19'-1	19.2"	24"	12"	16"	19.2"	24"	
	NI-20	16'-6"	15'-1"	14'-3"	-	16'-6"	15'-1"	14'-3"	
9-1/2"	NI-40x	17'-9"	16'-10"	15'-11"	-	18'-2"	16'-11"	15'-11"	_
J-172	NI-60	17'-11" 16'-11" 16'-2"	-	18'-5"	17'-2"	16'-2"	_		
	NI-80	19'-3"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	-
	NI-20	19'-4"	18'-0"	17'-1"	_	19'-9"	18'-1"	17'-1"	-
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-0"	_
11-7/8"	NI-60	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	_
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	_
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	_
	NI-40x	23'-5"	21'-8"	20'-9"	-	24'-0"	22'-5"	21'-5"	
14"	NI-60	23'-9"	22'-0"	21'-0"	-	24'-5"	22'-8"	21'-8"	_
14	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	_
	NI-90	25'-10"	23'-11"	22'-9"	-	26'-5"	24'-6"	23'-4"	_
	NI-60	26'-2"	24'-3"	23'-2"	-	26'-11"	25'-0"	23'-11"	_
16"	NI-80	27'-11"	25'-10"	24'-7"	-	28'-7"	26'-6"	25'-3"	_
	NI-90	28'-5"	26'-3"	25'-0"	-	29'-0"	26'-11"	25'-8"	_

Notes:

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.



Maximum Floor Spans - S7.1

Design Criteria

Simple span

Loads:

Live load = 40 psf and dead load = 15 psf

Deflection limits: L/480 under live load and L/240 under total load

3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

			E	Bare			1/2 in. gy	psum ceiling	
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	15'-10"	15'-0"	14'-5"	13'-5"	16'-4"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	16'-11"	15'-11"	15'-4"	14'-9"	17'-4"	16'-4"	15'-9"	15'-1"
3-1/2	NI-60	17'-1"	16'-1"	15'-6"	14'-10"	17'-6"	16'-6"	15'-11"	15'-3"
	NI-80	18'-1"	17'-0"	16'-4"	15'-8"	18'-7"	17'-4"	16'-8"	16'-0"
	NI-20	17'-10"	16'-10"	16'-2"	15'-7"	18'-5"	17'-4"	16'-9"	16'-1"
•	NI-40x	19'-3"	17'-10"	17'-2"	16'-6"	19'-10"	18'-5"	17'-8"	16'-11
11-7/8"	NI-60	19'-6"	18'-1"	17'-4"	16'-8"	20'-1"	18'-8"	17'-10"	17'-1"
	NI-80	20'-11"	19'-4"	18'-5"	17'-7"	21'-5"	19'-10"	18'-11"	17'-11
	NI-90	21'-4"	19'-9"	18'-9"	17'-10"	21'-10"	20'-3"	19'-3"	18'-3"
	NI-40x	21'-4"	19'-9"	18'-10"	17'-11"	22'-0"	20'-5"	19'-6"	18'-6"
14"	NI-60	21'-8"	20'-1"	19'-2"	18'-2"	22'-4"	20'-9"	19'-9"	18'-9"
14	NI-80	23'-3"	21'-6"	20'-5"	19'-4"	23'-10"	22'-1"	21'-0"	19'-11
	NI-90	23'-9"	21'-11"	20'-10"	19'-8"	24'-3"	22'-6"	21'-5"	20'-3"
	NI-60	23'-7"	21'-10"	20'-10"	19'-9"	24'-4"	22'-7"	21'-7"	20'-5"
16"	NI-80	25'-4"	23'-5"	22'-3"	21'-1"	26'-0"	24'-1"	22'-11"	21'-8"
	NI-90	25'-10"	23'-10"	22'-8"	21'-5"	26'-5"	24'-6"	23'-4"	22'-0"

		Mi	id-span blockin	g with 1x4 inch	strap	Mid-s	an blocking an	ıd 1/2 in. gypsı	ım ceiling
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	
		12"	16"	19.2"	acing On 19.2" 24" 12" 16" 4'-6" 13'-5" 16'-10" 15'-5" 6'-3" 15'-2" 18'-10" 17'-2" 6'-6" 15'-5" 19'-1" 17'-6" 7'-11" 16'-10" 20'-7" 19'-2" 7'-5" 16'-2" 20'-1" 18'-5" 9'-4" 17'-8" 22'-4" 20'-5" 9'-7" 18'-4" 22'-7" 20'-10 0'-10" 19'-9" 24'-0" 22'-5" 1'-3" 20'-1" 24'-6" 22'-10 1'-8" 19'-5" 25'-0" 23'-2" 2'-0" 20'-9" 25'-5" 23'-8" 3'-4" 22'-1" 27'-0" 25'-2" 3'-10" 22'-6" 27'-5" 25'-7"	16"	19.2"	24"	
	NI-20	16'-10"	15'-5"	14'-6"	13'-5"	16'-10"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	18'-7"	17'-2"	16'-3"	15'-2"	18'-10"	17'-2"	16'-3"	15'-2"
9-1/2	NI-60	18'-10"	17'-6"	16'-6"	15'-5"	19'-1"	17'-6"	16'-6"	15'-5"
	NI-80	20'-2"	18'-9"	17'-11"	16'-10"	20'-7"	19'-2"	18'-2"	16'-10"
	NI-20	20'-1"	18'-5"	17'-5"	16'-2"	20'-1"	18'-5"	17'-5"	16'-2"
	NI-40x	21'-9"	20'-3"	19'-4"	17'-8"	22'-4"	20'-5"	19'-4"	17'-8"
11-7/8"	NI-60	22'-0"	20'-6"	19'-7"	18'-4"	22'-7"	20'-10"	19'-8"	18'-4"
	NI-80	23'-6"	21'-10"	20'-10"	19'-9"	24'-0"	22'-5"	21'-4"	20'-0"
	NI-90	24'-0"	22'-4"	21'-3"	20'-1"	24'-6"	22'-10"	21'-9"	20'-7"
	NI-40x	24'-4"	22'-8"	21'-8"	19'-5"	25'-0"	23'-2"	21'-9"	19'-5"
14"	NI-60	24'-9"	23'-0"	22'-0"	20'-9"	25'-5"	23'-8"	22'-4"	20'-10"
14	NI-80	26'-5"	24'-6"	23'-4"	22'-1"	27'-0"	25'-2"	24'-0"	22'-8"
	NI-90	26'-11"	25'-0"	23'-10"	22'-6"	27'-5"	25'-7"	24'-5"	23'-1"
	NI-60	27'-2"	25'-4"	24'-2"	22'-10"	27'-11"	26'-1"	24'-9"	23'-1"
16"	NI-80	29'-0"	26'-11"	25'-8"	24'-3"	29'-7"	27'-7"	26'-4"	24'-11"
	NI-90	29'-6"	27'-5"	26'-1"	24'-8"	30'-1"	28'-1"	26'-9"	25'-4"

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

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Maximum Floor Spans - M2.1

Design Criteria

Spans: Simple span

Loads:

Live load = 40 psf and dead load = 20 psf

Deflection limits: L/480 under live load and L/240 under total load

5/8 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

			E	Bare			1/2 in. gy	psum ceiling	
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	_
9-1/2"	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-
9-1/2	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	-
	NI-80	17'-3"	16'-3"	15'-8"	_	17'-8"	16'-7"	16'-0"	_
	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	-
	NI-40x	18'-2"	17'-1"	16'-6"	-	18'-9"	17'-6"	16'-11"	_
11-7/8"	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	_
	NI-80	19'-9"	18'-3"	17'-7"	-	20'-4"	18'-10"	18'-0"	_
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	-
	NI-40x	20'-1"	18'-8"	17'-10"	-	20'-10"	19'-4"	18'-6"	_
14"	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	-
14	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	_
	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-
16"	NI-80	23'-11"	22'-1"	21'-1"	_	24'-8"	22'-10"	21'-9"	-
	NI-90	24'-5"	22'-6"	21'-6"	_	25'-1"	23'-2"	22'-2"	_

		Mi	d-span blockin	g with 1x4 inch s	trap	Mid-s	oan blocking ar	d 1/2 in. gypsum	ceiling
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	
9-1/2"		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	16'-8"	15'-3"	14'-5"	-	16'-8"	15'-3"	14'-5"	-
0.1/2"	NI-40x	17'-11"	17'-0"	16'-1"	-	18'-5"	17'-1"	16'-1"	-
9-1/2	NI-60	18'-2"	17'-1"	16'-4"	-	18'-8"	17'-4"	16'-4"	_
	NI-80	19'-5"	18'-0"	17'-5"	-	- 16'-8" - 18'-5" - 18'-8" - 19'-10" - 19'-11" - 21'-8" - 21'-11" - 23'-3" - 23'-9"	18'-5"	17'-8"	_
	NI-20	19'-7"	18'-2"	17'-3"	-	19'-11"	18'-3"	17'-3"	-
	NI-40x	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-0"	-
11-7/8"	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	-
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	_
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	-
	NI-40x	23'-8"	21'-11"	20'-11"	-	24'-4"	22'-8"	20'-11"	-
14"	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-11"	-
14	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	-
	NI-60	26'-5"	24'-6"	23'-5"	-	27'-2"	25'-3"	24'-2"	_
16"	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	-
	NI-90	28'-8"	26'-6"	25'-3"	-	29'-3"	27'-2"	25'-11"	_

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

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Maximum Floor Spans - M4.1

Design Criteria

Simple span Spans:

Live load = 40 psf and dead load = 20 psf

Deflection limits: L/480 under live load and L/240 under total load

3/4 in. nailed-glued oriented strand board (OSB) sheathing

Maximum Floor Spans

			E	Bare			1/2 in. gy	psum ceiling	
Joist depth	Joist series		On cent	re spacing			On cen	tre spacing	
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	14'-11"
3-1/2	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
NI-8	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-1"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
11-7/8"	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
14"	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
14	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
16"	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

		Mi	id-span blockin	g with 1x4 inch	strap	Mid-s	oan blocking ar	ıd 1/2 in. gypsu	m ceiling
Joist depth	Joist series		On cent	re spacing			On cent	re spacing	_
		12"	16"	19.2"	24"	12"	span blocking an On cent 16" 15'-5" 17'-2" 17'-6" 19'-3" 18'-5" 20'-6" 20'-10" 22'-6" 22'-11" 22'-11" 22'-11" 23'-8" 25'-3" 25'-8" 26'-2" 27'-9"	19.2"	24"
	NI-20	16'-10"	15'-5"	14'-6"	13'-5"	16'-10"	15'-5"	14'-6"	13'-5"
9-1/2"	NI-40x	18'-8"	17'-2"	16'-3"	14'-11"	18'-10"	17'-2"	16'-3"	14'-11"
5-1/2	NI-60	18'-11"	17'-6"	16'-6"	15'-5"	19'-2"	17'-6"	16'-6"	15'-5"
	NI-80	20'-3"	18'-10"	17'-11"	16'-10"	20'-8" 19'- 20'-1" 18'- 22'-5" 20'-	19'-3"	18'-2"	16'-10"
	NI-20	20'-1"	18'-5"	17'-5"	16'-1"	20'-1"	18'-5"	17'-5"	16'-1"
	NI-40x	21'-10"	20'-4"	19'-0"	17'-0"	22'-5"	20'-6"	19'-0"	17'-0"
11-7/8"	NI-60	22'-1"	20'-7"	19'-8"	18'-4"	22'-8"	20'-10"	19'-8"	18'-4"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-0"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-7"
	NI-40x	24'-5"	22'-9"	20'-11"	18'-8"	25'-1"	22'-11"	20'-11"	18'-8"
14"	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-8"	22'-4"	20'-10"
17	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	24'-9"	23'-1"
16"	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

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Maximum Floor Spans - M6.1

Design Criteria

Spans:

Simple span

Loads:

Live load = 40 psf and dead load = 20 psf

Deflection limits:

L/480 under live load and L/240 under total load

Sheathing:

5/8 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare On centre spacing				1/2 in. gypsum ceiling On centre spacing				
		9-1/2"	NI-20	14'-11"	14'-1"	13'-7"	-	15'-4"	14'-6"	14'-1"
NI-40x	15'-11"		15'-0"	14'-6"	-	16'-4"	15'-5"	14'-11"	_	
3-1/2	NI-60	16'-1"	15'-2"	14'-8"	-	16'-6"	15'-7"	15'-1"	-	
	NI-80	17'-1"	16'-1"	15'-6"	-	17'-5"	16'-5"	15'-10"	-	
	NI-20	16'-9"	15'-10"	15'-4"	-	17'-4"	16'-4"	15'-10"	-	
	NI-40x	17'-10"	16'-10"	16'-3"	-	18'-6"	17'-4"	16'-9"	-	
11-7/8"	NI-60	18'-1"	17'-0"	16'-5"	-	18'-9"	17'-6"	16'-11"	-	
	NI-80	19'-6"	18'-0"	17'-4"	-	20'-1"	18'-7"	17'-9"	-	
	NI-90	19'-11"	18'-4"	17'-8"	-	20'-5"	18'-11"	18'-1"	-	
	NI-40x	19'-10"	18'-4"	17'-8"	_	20'-6"	19'-1"	18'-3"	_	
14"	NI-60	20'-2"	18'-8"	17'-11"	-	20'-10"	19'-4"	18'-6"	-	
17	NI-80	21'-8"	20'-0"	19'-1"	-	22'-4"	20'-8"	19'-9"	_	
	NI-90	22'-1"	20'-5"	19'-6"	-	22'-9"	21'-0"	20'-1"	_	
	NI-60	22'-0"	20'-4"	19'-6"	-	22'-9"	21'-1"	20'-2"	-	
16"	NI-80	23'-7"	21'-10"	20'-10"	-	24'-4"	22'-6"	21'-6"	_	
	NI-90	24'-1"	22'-2"	21'-2"	-	24'-9"	22'-11"	21'-10"	_	

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling On centre spacing				
		NI-20	16'-6"	15'-1"	14'-3"	-	16'-6"	15'-1"	14'-3"	-
9-1/2"	NI-40x	17'-9"	16'-10"	15'-11"	-	18'-2"	16'-11"	15'-11"	_	
5-1/2	NI-60	17'-11"	16'-11"	16'-2"	-	18'-5"	17'-2"	16'-2"	-	
	NI-80	19'-3"	17'-10"	17'-3"	-	19'-8"	18'-3"	17'-7"	_	
	NI-20	19'-4"	18'-0"	17'-1"	_	19'-9"	18'-1"	17'-1"	-	
	NI-40x	20'-10"	19'-4"	18'-6"	-	21'-5"	19'-11"	19'-0"	_	
11-7/8"	NI-60	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-3"	-	
	NI-80	22'-6"	20'-10"	19'-11"	-	23'-1"	21'-5"	20'-5"	_	
	NI-90	23'-0"	21'-3"	20'-4"	-	23'-6"	21'-10"	20'-10"	_	
	NI-40x	23'-5"	21'-8"	20'-9"	-	24'-0"	22'-5"	20'-11"	-	
14"	NI-60	23'-9"	22'-0"	21'-0"	-	24'-5"	22'-8"	21'-8"	-	
14	NI-80	25'-4"	23'-6"	22'-5"	-	25'-11"	24'-1"	23'-0"	-	
	NI-90	25'-10"	23'-11"	22'-9"	-	26'-5"	24'-6"	23'-4"	-	
	NI-60	26'-2"	24'-3"	23'-2"	-	26'-11"	25'-0"	23'-11"	_	
16"	NI-80	27'-11"	25'-10"	24'-7"	-	28'-7"	26'-6"	25'-3"	-	
	NI-90	28'-5"	26'-3"	25'-0"	_	29'-0"	26'-11"	25'-8"	_	

Notes

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

Maximum Floor Spans - M7.1

Design Criteria

Spans:

Simple span

Loads:

Live load = 40 psf and dead load = 20 psf

Deflection limits: Sheathing:

L/480 under live load and L/240 under total load 3/4 in. nailed-glued Canadian softwood plywood

Maximum Floor Spans

Joist depth	Joist series	Bare On centre spacing				1/2 in. gypsum ceiling On centre spacing				
			NI-20	15'-10"	15'-0"	14'-5"	13'-5"	16'-4"	15'-5"	14'-6"
9-1/2"	NI-40x	16'-11"	15'-11"	15'-4"	14'-9"	17'-4"	16'-4"	15'-9"	14'-11'	
3-1/2	NI-60	17'-1"	16'-1"	15'-6"	14'-10"	17'-6"	16'-6"	15'-11"	15'-3"	
	NI-80	18'-1"	17'-0"	16'-4"	15'-8"	18'-7"	17'-4"	16'-8"	16'-0"	
11-7/8"	NI-20	17'-10"	16'-10"	16'-2"	15'-7"	18'-5"	17'-4"	16'-9"	16'-1"	
	NI-40x	19'-3"	17'-10"	17'-2"	16'-6"	19'-10"	18'-5"	17'-8"	16'-11'	
	NI-60	19'-6"	18'-1"	17'-4"	16'-8"	20'-1"	18'-8"	17'-10"	17'-1"	
	NI-80	20'-11"	19'-4"	18'-5"	17'-7"	21'-5"	19'-10"	18'-11"	17'-11"	
	NI-90	21'-4"	19'-9"	18'-9"	17'-10"	21'-10"	20'-3"	19'-3"	18'-3"	
	NI-40x	21'-4"	19'-9"	18'-10"	17'-11"	22'-0"	20'-5"	19'-6"	18'-6"	
14"	NI-60	21'-8"	20'-1"	19'-2"	18'-2"	22'-4"	20'-9"	19'-9"	18'-9"	
14	NI-80	23'-3"	21'-6"	20'-5"	19'-4"	23'-10"	22'-1"	21'-0"	19'-11"	
	NI-90	23'-9"	21'-11"	20'-10"	19'-8"	24'-3"	22'-6"	21'-5"	20'-3"	
	NI-60	23'-7"	21'-10"	20'-10"	19'-9"	24'-4"	22'-7"	21'-7"	20'-5"	
16"	NI-80	25'-4"	23'-5"	22'-3"	21'-1"	26'-0"	24'-1"	22'-11"	21'-8"	
	NI-90	25'-10"	23'-10"	22'-8"	21'-5"	26'-5"	24'-6"	23'-4"	22'-0"	

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling On centre spacing				
9-1/2"		NI-20	16'-10"	15'-5"	14'-6"	13'-5"	16'-10"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-7"	17'-2"	16'-3"	14'-11"	18'-10"	17'-2"	16'-3"	14'-11'	
3-1/2	NI-60	18'-10"	17'-6"	16'-6"	15'-5"	19'-1"	17'-6"	16'-6"	15'-5"	
	NI-80	20'-2"	18'-9"	17'-11"	16'-10"	20'-7"	19'-2"	18'-2"	16'-10'	
	NI-20	20'-1"	18'-5"	17'-5"	16'-1"	20'-1"	18'-5"	17'-5"	16'-1"	
	NI-40x	21'-9"	20'-3"	19'-0"	17'-0"	22'-4"	20'-5"	19'-0"	17'-0"	
11-7/8"	NI-60	22'-0"	20'-6"	19'-7"	18'-4"	22'-7"	20'-10"	19'-8"	18'-4"	
	NI-80	23'-6"	21'-10"	20'-10"	19'-9"	24'-0"	22'-5"	21'-4"	20'-0"	
	NI-90	24'-0"	22'-4"	21'-3"	20'-1"	24'-6"	22'-10"	21'-9"	20'-7"	
	NI-40x	24'-4"	22'-8"	20'-11"	18'-8"	25'-0"	22'-11"	20'-11"	18'-8"	
14"	NI-60	24'-9"	23'-0"	22'-0"	20'-9"	25'-5"	23'-8"	22'-4"	20'-10"	
17	NI-80	26'-5"	24'-6"	23'-4"	22'-1"	27'-0"	25'-2"	24'-0"	22'-8"	
	NI-90	26'-11"	25'-0"	23'-10"	22'-6"	27'-5"	25'-7"	24'-5"	23'-1"	
	NI-60	27'-2"	25'-4"	24'-2"	22'-10"	27'-11"	26'-1"	24'-9"	23'-1"	
16"	NI-80	29'-0"	26'-11"	25'-8"	24'-3"	29'-7"	27'-7"	26'-4"	24'-11"	
	NI-90	29'-6"	27'-5"	26'-1"	24'-8"	30'-1"	28'-1"	26'-9"	25'-4"	

Notes:

- 1. The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- 2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- 3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- 4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- 5. Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.