

		Products		
PlotID	Length	Product	Plies	Net Qty
J5	12-00-00	9 1/2" NI-40x	1	13
J1	22-00-00	11 7/8" NI-40x	2	38
J1 DJ	22-00-00	11 7/8" NI-40x	2	4
J2	18-00-00	11 7/8" NI-40x	1 .	12
J3	16-00-00	11 7/8" NI-40x	1.	14
J4	14-00-00	11 7/8" NI-40x	1	¹ 1
J5	12-00-00	11 7/8" NI-40x	1	6
J6	4-00-00	11 7/8" NI-40x	1	2
J7	2-00-00	11 7/8" NI-40x	1	4
J8	20-00-00	11 7/8" NI-80	1	18
J8 DJ	20-00-00	11 7/8" NI-80	2	4
J9	18-00-00	11 7/8" NI-80	1	2
B2 L~	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B1 L 🗸	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B3 L ~	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B7 ~	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 H <	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B5 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 /	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1 .	IUS3.56/11.88			
13	H2	IUS2.56/9.5			
1	H4	HUS1.81/10			
5	H5	HUC312-2			
2	H5	HUC312-2			

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 FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. 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 TILED AREAS: 20 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED:

APR 2017

BUILDER: GREENYORK HOMES

SITE:

DEGREY DR

MODEL: YORK 1

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RD **DESIGNER: PL REVISION:**

DATE: 2017-05-15

1st FLOOR

DATE SIZENT

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 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 26545 THROUGH DWG# TAM 26551-17, INCLUSIVE DATED_5 2627

SEALED STRUCTURAL COMPONENTS ONLY:
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.

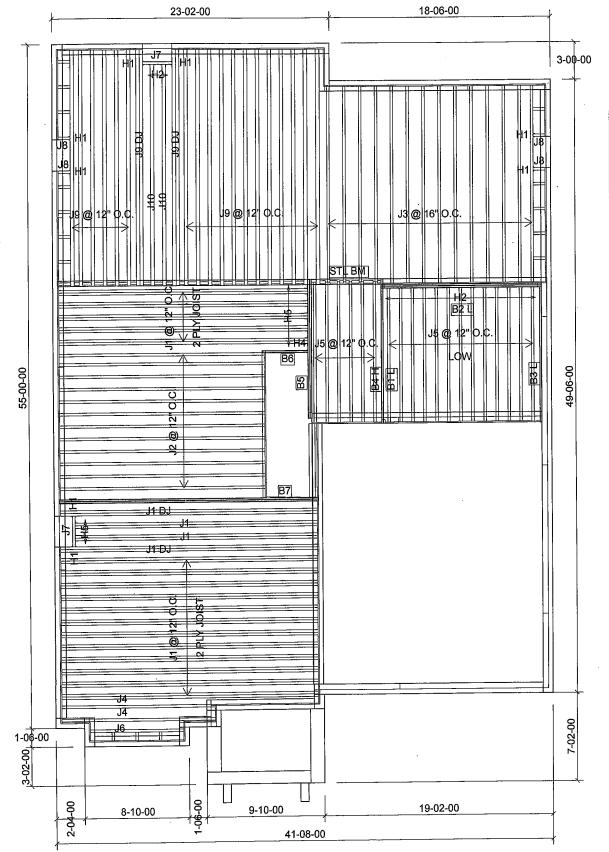
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION

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. 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.

DWG # TAM_____ BCIN: 26064

SEALED STRUCTURAL COMPONENTS ONLY





		Products		
PlotID	Length	Product	Plies	Net Qty
J5	12-00-00	9 1/2" NI-40x	1	13
J1	22-00-00	11 7/8" NI-40x	2	38
J1 DJ	22-00-00	11 7/8" NI-40x	2	4
J2 .	18-00-00	11 7/8" NI-40x	1	12
J3	16-00-00	11 7/8" NI-40x	1	14
J4	14-00-00	11 7/8" NI-40x	1	2
J5	12-00-00	11 7/8" NI-40x	1	6
J6	8-00-00	11 7/8" NI-40x	1	1
J7	4-00-00	11 7/8" NI-40x	1	2
J8	2-00-00	11 7/8" NI-40x	1	4
J9	20-00-00	11 7/8" NI-80	1	18
J9 DJ	20-00-00	11 7/8" NI-80	2	4
J10	18-00-00	11 7/8" NI-80	1	2
B2 L	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B1 L -	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B3 L∽	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B7 -	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 H <	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B5 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6 <u>/</u>	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary				
Qty	Manuf				
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
13	H2	IUS2.56/9.5			
2	H2	IUS3.56/11.88			
1	H4	HUS1.81/10			
5	H5	HUC312-2			
2	H5	HUC312-2			

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 FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. 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 TILED AREAS: 20 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED: APR 2017

BUILDER:

GREENYORK HOMES

SITE:

DEGREY DR

MODEL: YORK 1

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RD **DESIGNER: PL REVISION:**

DATE: 2017-05-19

1st FLOOR

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 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 26545 THROUGH DWG# TAM 26551-17 INCLUSIVE DATED 5267

SEALED STRUCTURAL COMPONENTS ONLY:

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 REINFORGEMENT REQUIRED AT ALL HANGER SUPPORTED JOIST EXCEEDING A REACTION OF 1500 LBS (FACTORED)-SEE DETAILS.

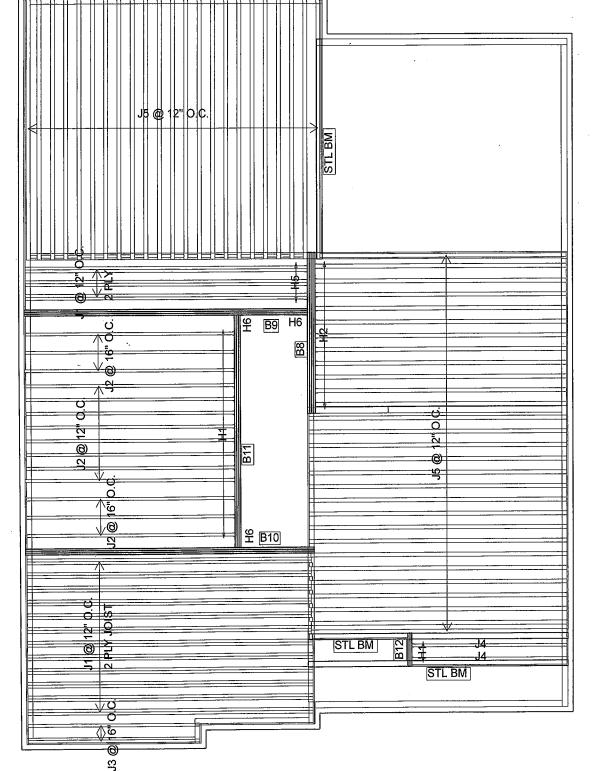
A COMPLETE FRAMING PLAN REQUIRES THE NORDIC PUBLISHED LITERATURE, WHICH INCLUDES INSTALLATION REQUIREMENTS, HANDLING AND STORAGE GUIDELINES, AND FORMS AN INTEGRAL PART OF THIS SEALED DOCUMENT. INSTALL SQUASH BLOCKS FOR TRANSFERRING POINT LOADS FROM GIRDER TRUSSES, HEADERS, AND BEAMS DOWN TO FOUNDATION 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 BEHALE OF A FIRM ON REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING CODE O AM DIMETRIED AND HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES.

DWG # TAM BCIN: FIRM: 26064 29991 SEALED STRUCTURAL

COMPONENTS ONLY

S. KATSOULAKOS



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	30
J2	16-00-00	11 7/8" NI-40x	1	14
J3	14-00-00	11 7/8" NI-40x	1	2
J4	12-00-00	11 7/8" NI-40x	1	2
J5	20-00-00	11 7/8" NI-80	1	52
B10 C	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B9 /	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B11 /	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B8 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B12 (4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
11	H2	IUS3.56/11.88			
3	H5	HU312-2			
2	H6	HGUS5.50/10			
1	H6	HGUS5.50/10			

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. JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 &2 OF THE INSTALLATION GUIDE. CERAMIC TILE

LOADING:

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

SUBFLOOR: 3/4" GLUED AND NAILED

TILED AREAS: 20 lb/ft2

APPLICATION AS PER O.B.C. 9.30.6.

IAMANAUN LUMBER INC ALPA LUMBER GROUP

FROM PLAN DATED: APR 2017

BUILDER:

GREENYORK HOMES

SITE:

DEGREY DR

MODEL: YORK 1

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: RD **DESIGNER: PL REVISION:**

DATE: 2017-05-15

2nd FLOOR

52617

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 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 26552 THROUGH DWG# TAM 265581, RICLUSIVE DATED 5 2677

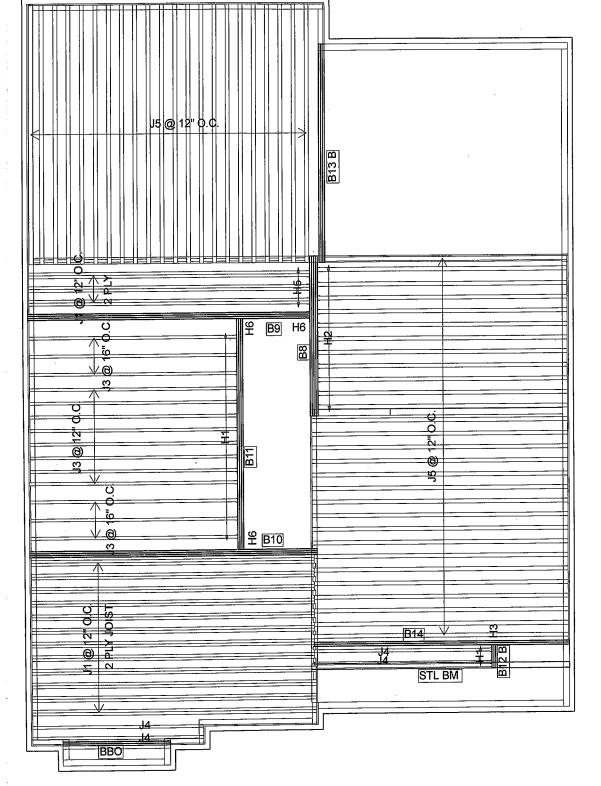
SEALED STRUCTURAL COMPONENTS ONLY: - 26556 -17 SEALED, THIRD PARTY LVL TYPE BEAMS, BUILT-UP CONVENTIONAL BEAMS, HEADERS, AND CONCENTRATED LOADED NORDIC WOOD-I JOIST ONLY. 2 X 6 SQUASH BLOCK REQUIRED AT ALL EXTERIOR SUPPORTS OR AS PER PROJECT ENGINEER'S SPECIFICATIONS, WEB FILLER REINFORCEMENT REQUIRED 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. 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 1/16: DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

REGISTERED FIRM MODE CONTENTS OF THE DESIGN WORK ON BEHALOUE SHOWN REGISTERED UNDER SUBSECTION 32.5 OF THE ONTARIO BUILDING CORE A FIRM HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES

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

S. KATSOULAKOS



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	30
J3	16-00-00	11 7/8" NI-40x	1	14
J4	14-00-00	11 7/8" NI-40x	1	4
J5	20-00-00	11 7/8" NI-80	1	51
B10 ~	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B9 /	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B11 /	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B13 B	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	- 3
B8 /	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B12 B 1	2-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

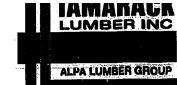
	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
11	H2	IUS3.56/11.88			
1	H3	HGUS410			
3	H5	HU312-2			
2 .	H6	HGUS5.50/10			
1	H6	HGUS5.50/10			

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. JOIST BLOCKING ALONG BEARING AND RIMBOARD CLOSURE AT ENDS. SEE FIGURE 4 & 5 FOR REINFORCEMENT REQUIREMENTS. **ELEVATION**: B FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 &2 OF THE INSTALLATION GUIDE. 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 TILED AREAS: 20 lb/ft2

SUBFLOOR: 3/4" GLUED AND NAILED



FROM PLAN DATED:

APR 2017

BUILDER: GREENYORK HOMES

SITE:

DEGREY DR

MODEL: YORK 1

LOT:

CITY: BRAMPTON

SALESMAN: RD **DESIGNER: PL REVISION:**

DATE: 2017-05-19

2nd FLOOR

DATE 5 2617

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 THE SEAL THIS PROJECT, ALL BEAMS NOT ADDRESSED IN THIS DESCRIPTION AND LABELLED ON THE PROJECT OF 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

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 26552 THROUGH DWG# TAM 265 3577, INCLUSIVE DATED 5 2617

SEALED STRUCTURAL COMPONENTS ONLY:

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 1/16 DEEPER THAN JOIS DEPTH. SEE NORDIC LITERATURE FOR NAILING REQUIREMENT.

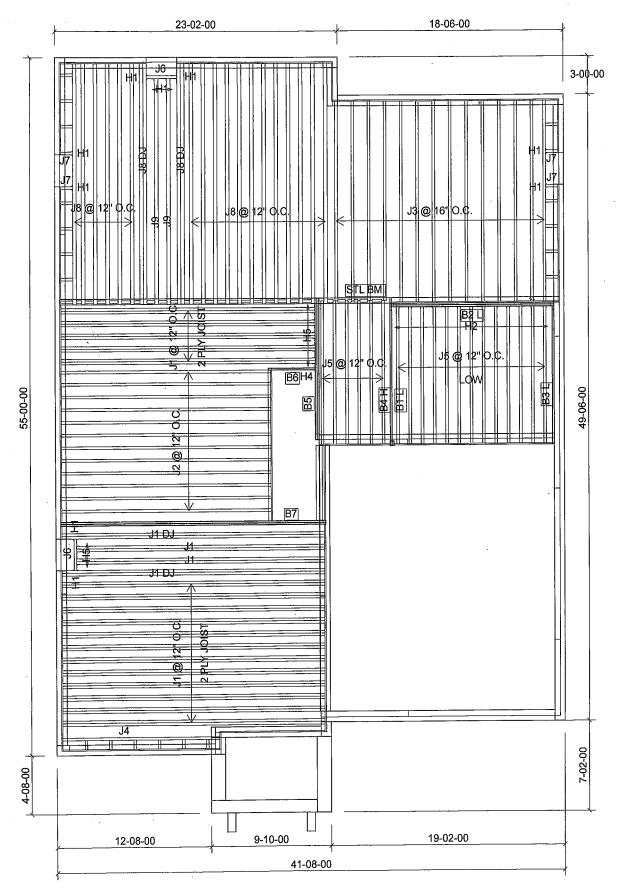
I REVIEWED AND TAKE RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF SHAM REGISTERED UNDER SUBSECTION 3.2.5 OF THE ONTARIO BUILDING COOK AM QUALIFIED AN HE FIRM IS REGISTERED, IN APPROPRIATE CLASSES AND/OR CATEGORIES

REGISTERED FIRM: MICRO CITY ENGINEERING SERVICES INC.

DWG # TAM BCIN: 26064 FIRM: 29991

COMPONENTS ONLY

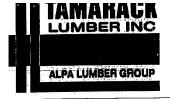




		Products		
PlotID	Length	Product	Plies	Net Qty
J5	12-00-00	9 1/2" NI-40x	1	13
J1	22-00-00	11 7/8" NI-40x	2	38
J1 DJ	22-00-00	11 7/8" NI-40x	2	4
J2	18-00-00	11 7/8" NI-40x	1	⁻ 12
J3	16-00-00	11 7/8" NI-40x	1	14
J4	14-00-00	11 7/8" NI-40x	1	1
J5	12-00-00	11 7/8" NI-40x	1	6
J6	4-00-00	11 7/8" NI-40x	1	2
J7	2-00-00	11 7/8" NI-40x	1	4
J8	20-00-00	11 7/8" NI-80	1 .	18
J8 DJ	20-00-00	11 7/8" NI-80	2	4
J9	18-00-00	11 7/8" NI-80	1	2
B2 L	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2
B1 L	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B3 L	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1
B7	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B4 H	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1
B5	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2
B6	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS2.56/11.88			
2	H1	IUS3.56/11.88			
13	H2	IUS2.56/9.5			
1	H4	HUS1.81/10			
5	H5	HUC312-2			
2	H5	HUC312-2			

UPDATED



FROM PLAN DATED: APR 2017

BUILDER: GREENYORK HOMES

SITE: DEGREY DR

MODEL: YORK 1

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: R D
DESIGNER: PL
REVISION:

NOTES:

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.

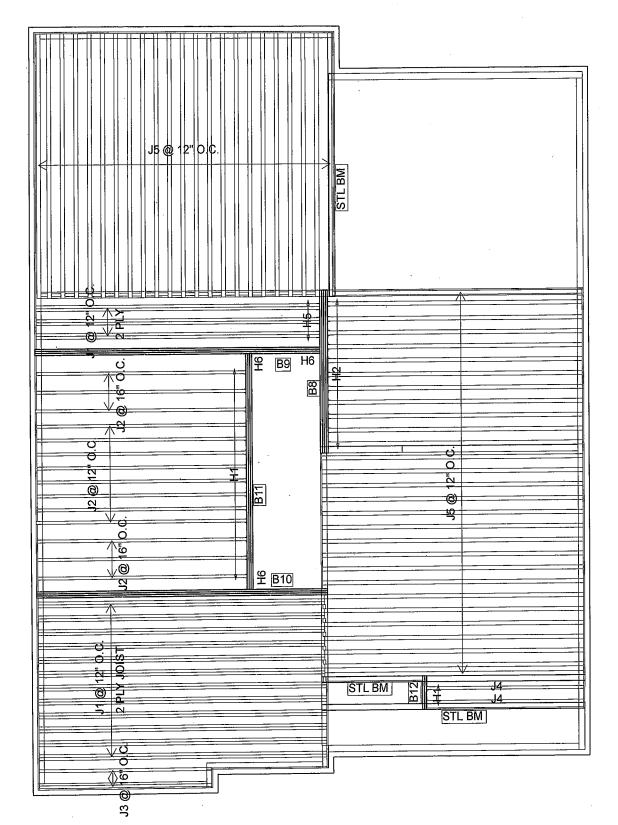
LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft

SUBFLOOR: 3/4" GLUED AND NAILED

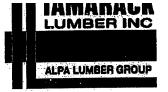
DATE: 2017-05-15

1st FLOOR



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	30
J2	16-00-00	11 7/8" NI-40x	1	14
J3	14-00-00	11 7/8" NI-40x	1	2
·J4	12-00-00	11 7/8" NI-40x	1	2
J5	20-00-00	11 7/8" NI-80	1	52
B10	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B9	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B11	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B8	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B12	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

	Connector Summary				
Qty	Manuf	Product			
2	H1	IUS2.56/11.88			
14	H1	IUS2.56/11.88			
11	H2	IUS3.56/11.88			
3	H5	HU312-2			
2	H6	HGUS5.50/10			
1	H6	HGUS5.50/10			



FROM PLAN DATED: APR 2017

BUILDER: GREENYORK HOMES

SITE: DEGREY DR

MODEL: YORK 1

ELEVATION: A

LOT:

CITY: BRAMPTON

SALESMAN: R D
DESIGNER: PL
REVISION:

NOTES:

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 FIGURE 7 TABLES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6

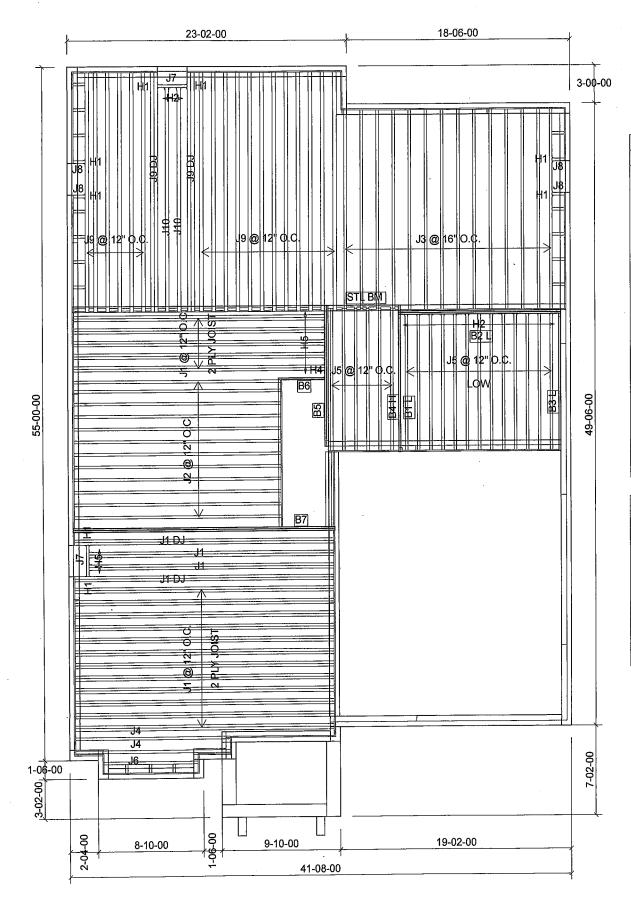
LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft

SUBFLOOR: 3/4" GLUED AND NAILED

DATE: 2017-05-15

2nd FLOOR



	Products						
PlotID	Length	Product	Plies	Net Qty			
J5	12-00-00	9 1/2" NI-40x	1	13			
J1	22-00-00	11 7/8" NI-40x	2	38			
J1 DJ	22-00-00	11 7/8" NI-40x	2	4			
J2	18-00-00	11 7/8" NI-40x	1	12			
J3	16-00-00	11 7/8" NI-40x	1	14			
J4	14-00-00	11 7/8" NI-40x	1	2			
J5	12-00-00	11 7/8" NI-40x	1	6			
J6	8-00-00	11 7/8" NI-40x	1	1			
J7	4-00-00	11 7/8" NI-40x	1	2			
J8	2-00-00	11 7/8" NI-40x	1	4			
J9	20-00-00	11 7/8" NI-80	1	18			
J9 DJ	20-00-00	11 7/8" NI-80	2	4			
J10	18-00-00	11 7/8" NI-80	1	2 .			
B2 L	14-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	2	2			
B1 L	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1			
B3 L	12-00-00	1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP	1	1			
B7	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2			
B4 H	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1			
B5	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2			
В6	4-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	1	1			

Connector Summary						
Qty	Manuf	Product				
2	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
2	H1	IUS2.56/11.88				
13	H2	IUS2.56/9.5				
2	H2	IUS3.56/11.88				
1	H4	HUS1.81/10				
5	H5	HUC312-2				
2	H5	HUC312-2				



FROM PLAN DATED: APR 2017

BUILDER: GREENYORK HOMES

SITE: DEGREY DR

MODEL: YORK 1

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: RD DESIGNER: PL **REVISION:**

NOTES:

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.

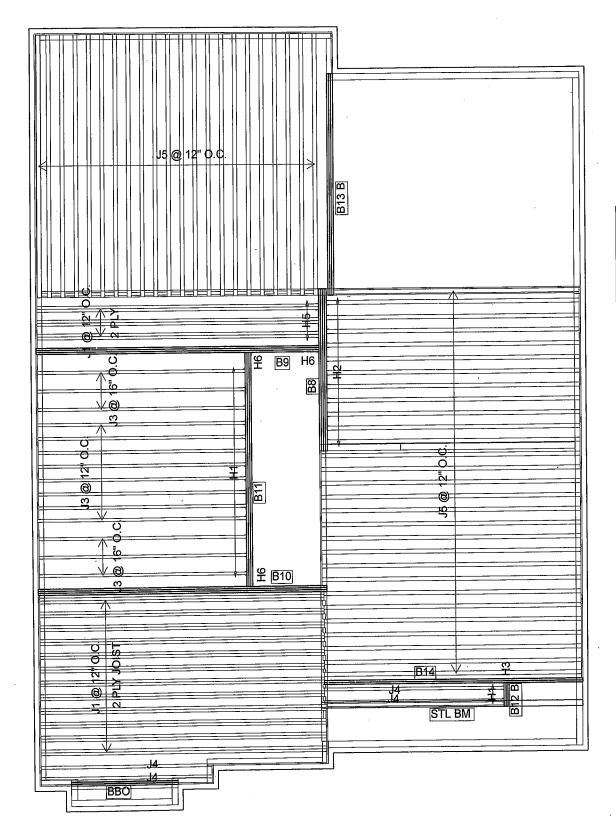
LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft.2 TILED AREAS: 20 lb/ft²

SUBFLOOR: 3/4" GLUED AND NAILED

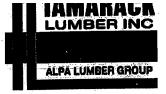
DATE: 2017-05-19

1st FLOOR



		Products		
PlotID	Length	Product	Plies	Net Qty
J1	22-00-00	11 7/8" NI-40x	2	30
J3	16-00-00	11 7/8" NI-40x	1.	14
J4	14-00-00	11 7/8" NI-40x	1	4
J5	20-00-00	11 7/8" NI-80	1	51
B10	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B9	22-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B11	18-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B13 B	16-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	3	3
B8	12-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	4	4
B12 B	2-00-00	1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP	2	2

Connector Summary						
Qty	Manuf	Product				
2	H1	IUS2.56/11.88				
14	H1	IUS2.56/11.88				
11	H2	IUS3.56/11.88				
1	H3	HGUS410				
3	H5	HU312-2				
2	H6	HGUS5.50/10				
1	H6	HGUS5.50/10				



FROM PLAN DATED: APR 2017

BUILDER: GREENYORK HOMES

SITE: DEGREY DR

MODEL: YORK 1

ELEVATION: B

LOT:

CITY: BRAMPTON

SALESMAN: R D
DESIGNER: PL
REVISION:

NOTES:

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 FIGURE 7 TABLES 4 & 5 FOR REINFORCEMENT REQUIREMENTS. FOR HOLES INCLUDING DUCT CHASE AND FIELD CUT OPENINGS SEE FIGURE 7 TABLES 1 & 2 OF THE INSTALLATION GUIDE. CERAMIC TILE APPLICATION AS PER O.B.C. 9.30.6

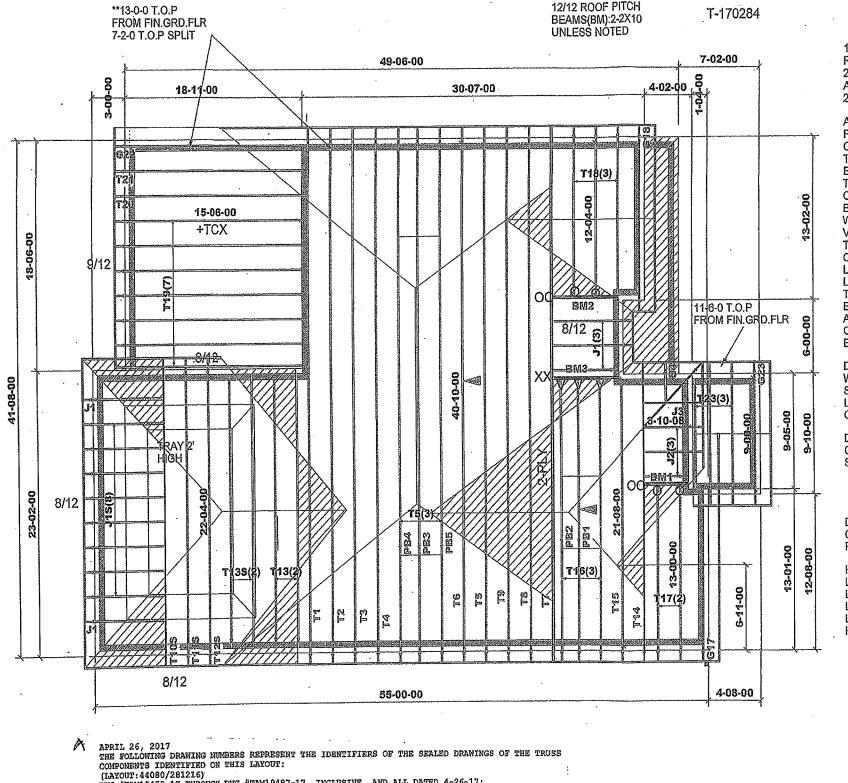
LOADING:

DESIGN LOADS: L/480.000 LIVE LOAD: 40.0 lb/ft² DEAD LOAD: 20.0 lb/ft² TILED AREAS: 20 lb/ft

SUBFLOOR: 3/4" GLUED AND NAILED

DATE: 2017-05-19

2nd FLOOR



12" FINISH O.H R.T.M.C 2X6 EXTERIOR WALLS ASPHALT SHINGLES 2X6 FASCIA BOARD

ALL CONVENTIONAL ROOF FRAMING TO CONFORM TO PART9 OF THE OBC.LATEST **EDITION ROOF RAFTERS** THAT MEET OR CROSS **OVER TRUSSES ARE TO** BE 2"X4"SPF@24"o.c. WITH A 2"X4"SPF VERTICAL POST TO THE TRUSS UNDER AT EACH CROSS POINT, POSTS LONGER THAN 6' TO BE LATERALLY BRACED SO THAT THE DISTANCE BETWEEN END POINTS AND BETWEEN ROWS OF BRACING DOES NOT EXCEED 6'.

DESIGN CONFORMS WITH THE RELEVANT SECTION OF THE LATEST EDITION OF O.B.C. PART,9

DESIGN LOADS: GROUND SNOW LOAD Ss= 1.3 kPa

TC DEAD 3 PSF BC LIVE 10.5 PSF BC DEAD 7 PSF

DENOTES CONVENTIONAL FRAMING

HARDWARE LUS24(0) LUS24-2(00) LJS26DS(V) LUS26-2(VV) HGUS26-2(XX)

DATE: 4-2611 BCIN:26064; FIRM:BCIN #29991 ENGINEERING ONLY-DIMENSIONS TO BE VERIFIED ON SITE

SUPPORTING STRUCTURE TO BE REVIEWED AND VERIFIED BY QUALIFIED BUILDING

DESIGNER
ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING
ALL CONVENTIONAL FRAMING TO BE SPECIFIED, REVIEWED, AND CONFIRMED BY BUILDING
DESIGNER PRIOR TO TRUSS INSTALLATION. ALL NOTES DESIGNATING PER PLAN WORK DO
NOT REPRESENT A PART OF THE SCOPE OF THIS 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

ALL DEAMS NOT MUNICESSION IN THIS DESIGNER AND/OR
BEAMS SPECIFIED BY THE BUILDING DESIGNER AND/OR
PROJECT ENGINEER AND ARE TO BE REVIEWED AND CONFIRMED BY THE SAME DESIGNERS
PRIOR TO FABRICATION TO ENSURE ADEQUATE LOAD CAPACITY WITH RESPECT TO THE
ROOF TRUSS COMPONENTS REVIEWED IN THIS SUBMISSION.

LOT SPECIFIC SCHEDULE 1 REQUIRED FOR EACH INDIVIDUAL LOT.

DWG #TAM THROUGH DWG #TAM,

inclusive, dated ; 💠

STRUCTURAL COMPONENTS ONLY); THIS LAYOUT MUST BE READ TOGETHER WITH REFERENCED TRUSS COMPONENT DRAWINGS AND SEALED HARDWARE DRAWINGS. HANGERS AND HARDWARE SPECIFIED ON THIS LAYOUT ONLY. REFER TO ATTACHED SEALED REFERENCED DRAWINGS FOR ADDITIONAL BRACING REQUIREMENTS;
(IF BRACING IS SHOWN TO BE REQUIRED PROVIDE THE FOLLOWING BRACING):

PROVIDE 1 ROW OF 2 X 4#2 SPF CONTINUOUS LATERAL BRACES ALONG WEB MEMBERS SPECIFIED ON REFERENCED SEALED TRUSS COMPONENT DRAWINGS USING 2 - 3-1/4" COMMON WIRE NAILS PER WEB MEMBER THEN PROVIDE 2 X 4 #2 SPF "X-BRACING" ALONG THESE SAME WEB MEMBERS AT LOCATIONS INDICATED (1) USING THE SAME NAILING, PROVIDE BLOCKING IF REQUIRED (DO NOT ARCH BRACING), PROVIDE 2 X 4 #2 SPF T-BRACE ALONG FULL LENGTH OF LATERALLY BRACED WEB MEMBERS OF 1 PLY TRUSSES COMPONENTS REQUIRING T-BRACE" USING 1 ROW OF 3-1/4" COMMON WIRE NAILS AT 6" OVC. SIMILARLY PROVIDE 2 X 6 BRACE WITH 2 ROWS OF NAILING FOR 2 PLY TRUSS COMPONENTS AND 2 X 8 BRACE WITH 3 ROWS OF NAILING FOR 3 PLY TRUSS COMPONENTS.

(1) 2 X 6 #2 SPF ON FLAT OVER PLYWOOD SMEATHING. (2) 2 X 6 #2 SPF RIDGE BEAM SUPPORTED AT EACH END OVER BASE TRUSS COMPONENTS AND AT LOCATIONS MARKED BY "X". (3) 2 X 6 #2 SPF ROOF RAFTERS AT 24" OIC WITH MAXIMUM SUPPORT SFAN 6"-0" (ADD 2 X 4 VERTICAL SUPPORTS TO TRUSS BASE BELOW WHERE NECESSARY.

ALL CONVENTIONAL PRAMING TO BE DISTRIBUTED UNIFORMLY ALONG BASE TRUSS COMPONENTS, PROVIDE 2 X 4 KNEE-WALLS WHERE NECESSARY WITH STUDS AT24" OIC.

ALL CONVENTIONAL FRAMING TO CONFORM TO ONTARIO BUILDING CODE (CURRENT EDITION).

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

DWG #TAM 1951877 BCIN: 26064 FIRM: 29991

SEALED STRUCTURAL COMPONENTS ONLY

PROFESSIONA

DMG #TAM19455-17 THROUGH DWG #TAM19487-17, INCLUSIVE, AND ALL DATED 4-26-17; DWG #TAM6305-14 DATED 3-05-14 (CONVENTIONAL FRAMED VALLEY STANDARD) (STRUCTURAL COMPONENTS ONLY)

m101600

a Tamarack

111. 3

Job Track: 44080 Layout ID: 281216 Plan Log: 91851

GREENYORK HOMES / roject: DEGREY DRIVE

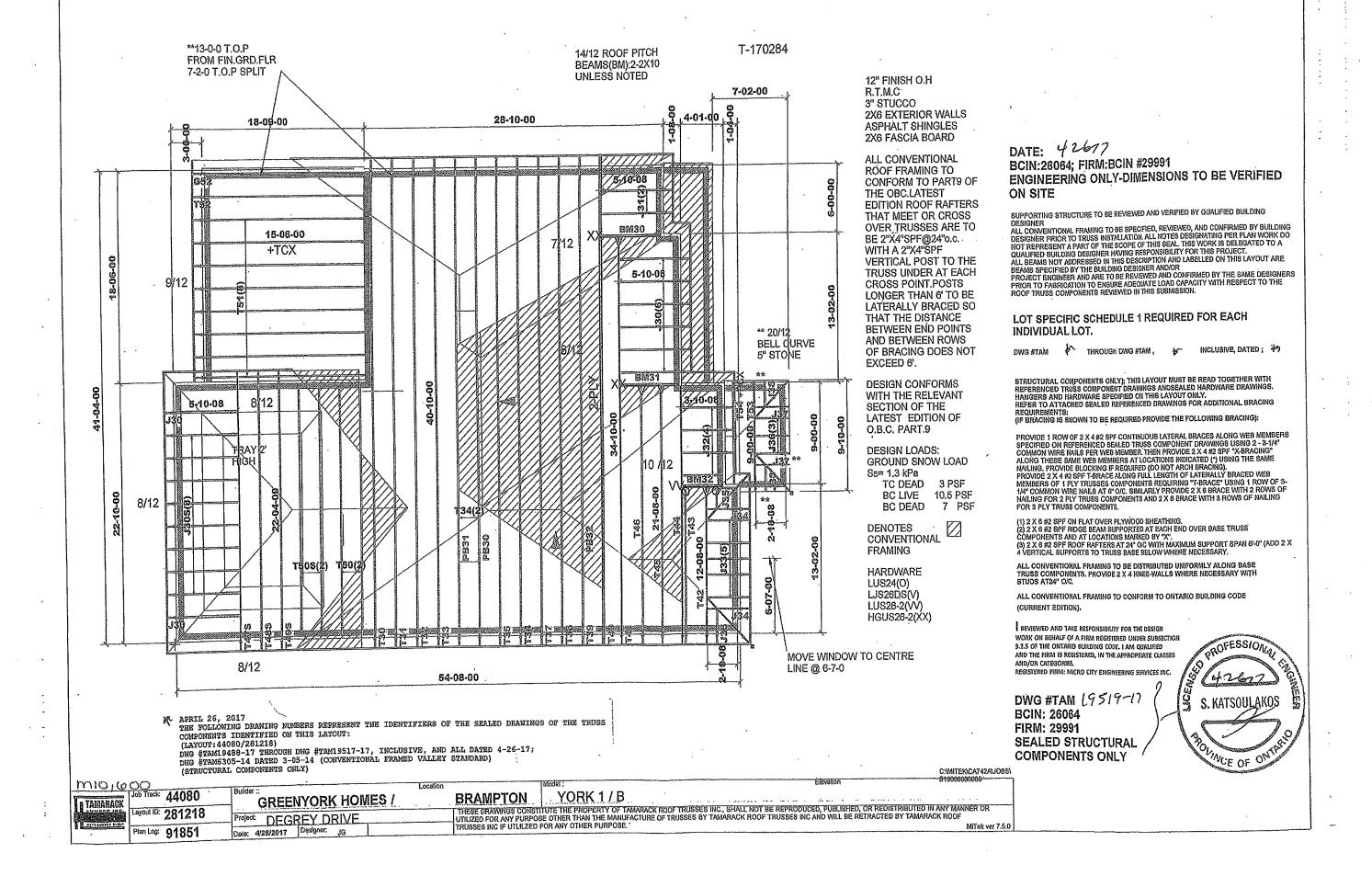
Date: 4/26/2017 Designer: JG

BRAMPTON

and the control of th

THESE DRAWINGS CONSTITUTE THE PROPERTY OF TAMARACK ROOF TRUSSES INC., SHALL NOT BE REPRODUCED, PUBLISHED, OR REDISTRIBUTED IN ANY MANNER OR UTILIZED FOR ANY PURPOSE OTHER THAN THE MANUFACTURE OF TRUSSES BY TAMARACK ROOF TRUSSES INC AND WILL BE RETRACTED BY TAMARACK ROOF TRUSSES INC IF UTILIZED FOR ANY OTHER PURPOSE.

C:\MITEK\CA742AUOBS\



Use one form for each individual who review	vs and takes res			project.
A. Project/information		Application	CHARLES AND THE TANK TO AND THE OWNER PROPERTY OF THE PROPERTY	Lot/con.
Building number, street name			Unit no.	LOVCOII.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other descri	ption	
B. Individual who reviews and takes	s responsibili	ty for design activities		
Name	one the Control of th	Firm		
SAM KATSOULAKOS, P. ENG.	<u> </u>	MICRO CITY ENGI	NEERING SERVICES Unit no.	Lot/con.
Street address R.R #1, PO BOX 61			Offictio.	Loveon.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
©. Design activities undertaken by≀	ndividual ide	ntified in Section B. [B	uilding Code Table	3:5:2:1: of
Division C]				
□ House		- House	☑ Building Strue	
☐ Small Buildings		g Services	☐ Plumbing – H☐ Plumbing – All	
☐ Large Buildings☐ Complex Buildings		on, Lighting and Power otection	☐ On-site Sewa	
Description of designer's work GREENYO	RK HOMES - I	DEGREY DR - MODEL: YO		90 0,000
1ST FLOOR (SCHEDULE IS NOT ISSUED	AS LOT SPEC	(IFIC)	•	
REVIEW PRE-ENGINEERED FLOOR SYS	TEM COMPON	ENT DRAWINGS AND LAY	OUT PLACEMENT PL	AN SUPPLIED BY
TAMARACK ROOF TRUSSES INC. (SEE I SUPPORTING STRUCTURE TO BE REVIE)WG#1AM2656	30-17 DALED 5-26-17). DIEED BY OHALIEIED BLIII	DING DESIGNER	
D. Declaration of Designer	VEDAND VE	MI LD DI QUALII ILD DOIL	DINO DEGICIALIA	
The state of the property of the state of th				
I, <u>SAM KATSOULAKOS, P. ENG</u>		d	eclare that (choose or	ne as appropriate):
(print name	e)		viotared under subsec	tion 2.2.4 of Division
☑ I review and take responsibili C, of the Building Code. I am	ty for the desigi	n work on behalf of a liftle leg ne firm is registered in the at	pistered under subsect poropriate classes/cat	eaories.
C, of the building code. Fam.	quanneu, and ti	ic itti is regioterea, in the ap	opropriate diagonal	
	.,			
Individual BCIN:2606	54			
Firm BCIN: <u>2999</u>	91			
☐ I review and take responsibilit	v for the design	and am qualified in the app	ropriate category as a	n "other designer"
under subsection 3.2.5.of Divi				J
Individual BCIN:				
Basis for exemption from	re sistration:	•		
☐ The design work is exempt from	negistration nm the registrati	on and qualification requirer	nents of the Building (Code.
		d qualification:		
I certify that:	9.0 3.1011 3111			
The information contained in this s	schedule is true	to the best of my knowledge	•	
I have submitted this application w				
		-		
			1	,
	<i></i>	Cinnature of Designer		
Date <	2617	Signature of Designer		

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.
- 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#TAMZ6560-17-8 \$2617 DWG#TAMZ6564-17-8

Use one form for each individual who review	/s and takes res	sponsibility for design activi	ties with respect to th	ne project.
A. Project information		Application	number:	
Building number, street name			Unit no.	Lot/con.
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other desc	ription	
B. Individual who reviews and takes	s responsibili	ty for design activities		
Name		Firm		
SAM KATSOULAKOS, P. ENG.		MICRO CITY ENG	INEERING SERVIC	Lot/con.
Street address R.R #1, PO BOX 61			Unit no.	Lovcon.
Municipality GLENCOE	Postal code N0L 1M0	Province ONTARIO	E-mail	
Telephone number (519) 287-2242 Business	Fax number (519) 287-575	0	Cell number	
C. Design activities undertaken by			Building Code Tab	le 3.5.2.1. of
Division C				
☐ House	☐ HVAC	– House	Building St	
☐ Small Buildings	Buildin	g Services	□ Plumbing –	
☐ Large Buildings		on, Lighting and Power	☐ Plumbing –	
☐ Complex Buildings	☐ Fire Pr	otection	☐ On-site Sev	vage Systems
Description of designer's work GREENYO	RK HOMES - I	DEGREY DR - MODEL: YO	ORK 1 - ELEV. B	
1ST FLOOR (SCHEDULE IS NOT ISSUED REVIEW PRE-ENGINEERED FLOOR SYS	AS LOT SPEC	IFIC) IENT DDAWINGS AND LAY	OUT DI ACEMENT	PLAN SUPPLIED BY
TAMARACK ROOF TRUSSES INC. (SEE I	NAIG #TAM265	1511 DRAWINGS AND LA 31-17 DATED 5-26-17)	IOOTT LAOLMLIN	1 2/1/ 00/ 1 2/25 2 /
SUPPORTING STRUCTURE TO BE REVI	WED AND VE	RIFED BY QUALIFIED BU	LDING DESIGNER.	
D. Declaration of Designer.				
I, <u>SAM KATSOULAKOS, P. ENG</u>			declare that (choose	one as appropriate):
(print nam	e)			U 004 CDideles
☑ I review and take responsibili C, of the Building Code. I am	ty for the desig qualified, and th	n work on behalf of a firm rene firm is registered, in the	egistered under subs appropriate classes/o	ection 3.2.4.of Division categories.
Individual BCIN: 2606	64			
Firm BCIN: <u>2999</u>	91			
☐ I review and take responsibiliunder subsection 3.2.5.of Div	ty for the design	n and am qualified in the ap	propriate category a	s an "other designer"
Individual BCIN:				
Basis for exemption from	registration: _		·	
☐ The design work is exempt from	om the registrat	ion and qualification require	ements of the Buildin	g Code.
Basis for exemption from	registration an	d qualification:		
I certify that:	-			
The information contained in this s	schedule is true	to the best of my knowledge	je.	
I have submitted this application v	vith the knowled	lge and consent of the firm.		
	Non?	Signature of Designer		
Date 5	U(1)	olgitature of Designer	///	-

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.
- 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, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG#TAM26561-17-\$ 52617 DWG#TAM2656517-\$

Use one form for each individual who review	<u>vs and takes res</u>	sponsibility for design activitie Application nu	s with respect to tr	ne project.
A. Project information.		Application ilu	Unit no.	Lot/con.
Building number, street name			Official.	20000
Municipality CITY OF BRAMPTON	Postal code	Plan number/ other descrip	tion	The company of the co
B. Individual who reviews and takes	s responsibili	ty for design activities		
Name	ENTERNO SE ARROMANO DE PROCESO	Firm		== 0 INO
SAM KATSOULAKOS, P. ENG.		MICRO CITY ENGIN		Lot/con.
Street address			Unit no.	Lovcon.
R.R #1, PO BOX 61	Postal code	Province	E-mail	!
Municipality GLENCOE	NOL 1MO	ONTARIO		
Telephone number	Fax number		Cell number	
(519) 287-2242 Business	(519) 287-575	0		
G. Design activities undertaken by	individual ide	ntified in Section B. [Bu	illding Code Tab	ile 3:5:2:1. 01
Division C]			A CONTRACTOR	
☐ House		– House	⊠ Building St	
☐ Small Buildings	☐ Buildin		☐ Plumbing — ☐ Plumbing —	
☐ Large Buildings		ion, Lighting and Power otection	☐ On-site Sev	
☐ Complex Buildings Description of designer's work GREENYC	Fire Pr	DECREY DR - MODEL · YOF		mago oyoto
AND ELOOD CONTEDUI E LE MOT ISSUE	1 46 I UT 60E	CIFIC)		
PEVIEW PRE-ENGINEERED FLOOR SYS	STEM COMPON	IENT DRAWINGS AND LAYO	OUT PLACEMENT	PLAN SUPPLIED BY
TAMADACK DOOF TRUSSES INC. (SEE I	DWG #TAM265	62-17 DATED 5-26-17).		
SUPPORTING STRUCTURE TO BE REVI	EWED AND VE	RIFED BY QUALIFIED BUILI	DING DESIGNER.	
D. Declaration of Designer				
I, <u>SAM KATSOULAKOS, P. ENG</u>		de	eclare that (choose	one as appropriate):
Invint nom	ne)			
VI I raviou and take responsibil	ity for the design	n work on behalf of a firm reg	istered under subs	section 3.2.4.of Division
C, of the Building Code. I am	qualified, and ti	ne tirm is registered, in the ap	propriate classes	categorico.
Individual BCIN: <u>260</u>	64			
Firm BCIN: 299	91			
☐ Lreview and take responsibili	ity for the design	n and am qualified in the app	ropriate category a	s an "other designer"
☐ I review and take responsibiling under subsection 3.2.5.of Div	ision C, of the E	Building Code.	,	
Individual BCIN:				
Basis for exemption from ☐ The design work is exempt for	n registration:	tion and qualification requirer	nents of the Buildir	ng Code
☐ The design work is exempt to	om the registra	d evelification:	Hones of the Banan	.9 0000
	n registration an	nd qualification:		
I certify that:		to the heet of my knowledge		
The information contained in this	schedule is true	to the best of the Knowledge	•	
2. I have submitted this application	with the knowled	age and consent of the ilin.		
Date	(2lon)	Signature of Designer		

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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 Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

DWG#TAM 26562-17-S DWG#TAM 26566-17-S

Use one form for each individual who review	<i>i</i> s and takes res	ponsibility for design activities	s with respect to t	ne project.
A. Project information		Application nu	CROSCOSTANIA WORLDWINGS CONTROL OF THE PROPERTY OF THE PROPERT	Lot/con.
Building number, street name			Unit no.	Lowcon.
ALL DE CITY OF PRANCTON	Postal code	Plan number/ other descrip	l	
Municipality CITY OF BRAMPTON	Postal Code	Platt Harribely Other descrip		
B. Individual who reviews and takes	voenoncibili	ty for design activities		
ACCOUNTY TO SEA DESCRIPTION OF THE PARTY AND		Firm		AND THE STATE OF T
Name SAM KATSOULAKOS, P. ENG.		MICRO CITY ENGIN	IEERING SERVIC	ES INC.
Street address			Unit no.	Lot/con.
R.R #1, PO BOX 61		·		
Municipality	Postal code	Province	E-mail	
GLENCOE	NOL 1MO	ONTARIO	Cell number	
Telephone number_	Fax number	•	Cell Hulliber	·
(519) 287-2242 Business	(519) 287-575			359E94 5
C. Design activities undertaken by I	ndividual ide	ntified in Section B. [Bu	illaing Code Iai	Jie.3.3.2.17.Ui
Division C]				
☐ House	☐ HVAC		⊠ Building S	
☐ Small Buildings	☐ Buildin		☐ Plumbing – ☐ Plumbing –	
☐ Large Buildings		ion, Lighting and Power		wage Systems
☐ Complex Buildings	☐ Fire Pr	OTECTION MODEL : VOI		wage cyclome
Description of designer's work GREENYO 2ND FLOOR (SCHEDULE IS NOT ISSUED	AS LOT SPE	DEGRET DR - MODEL, TO	(IXI ELLVID	
REVIEW PRE-ENGINEERED FLOOR SYS	TEM COMPON	IENT DRAWINGS AND LAY	OUT PLACEMENT	PLAN SUPPLIED BY
TAMADACK BOOF TRUSSES INC. (SEE I	NNG #TAM265	63-17 DALED 5-26-17).		
SUPPORTING STRUCTURE TO BE REVI	EWED AND VE	RIFED BY QUALIFIED BUIL	DING DESIGNER.	nove vision at Henry known and the Control
D. Declaration of Designer				
THE PROPERTY AND PROPERTY OF THE PROPERTY OF T	9591	d	aclare that (choose	e one as appropriate):
I, <u>SAM KATSOULAKOS, P. ENG</u>		u	Solare triat (crioses	one as appropriately
(print nam 区 I review and take responsibil	ie) itu fan tha daoig	n work on bobolf of a firm rec	uistered under sub	section 3.2.4.of Division
C, of the Building Code. I am	ity for the desig	ne firm is registered in the a	propriate classes	categories.
C, of the Building Code. I am	qualified, and ti	ile iiitti is regiotorea, iii are a	Sprop	
Individual BCIN:2606	64	· · · · · · · · · · · · · · · · · · ·		
Firm BCIN: 2999	91			
		and an englished in the one	ronriato category s	s an "other designer"
☐ I review and take responsibili	ty for the design	n and am quainled in the app	· Opilale Calegory a	is all other designer
under subsection 3.2.5.of Div	ision C, or the i	Saliding Code.		
Individual BCIN:				
Basis for exemption from	registration: _			
☐ The design work is exempt fr	om the registrat	tion and qualification requirer	nents of the Buildi	ng Code.
Basis for exemption from	n registration an	d qualification:		
I certify that:	J			
The information contained in this s	schedule is true	to the best of my knowledge) .	
The information contained in this application v	with the knowled	dge and consent of the firm.		
2. Thave submitted this approaction v				
			1	
			//_	
Date 5	261)_	Signature of Designer		

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#TAM 2656317-8 52611 DWG#TAM 2656317-8

NORDIC STRUCTURES

COMPANY TAMARACK LUMBER INC. 3269 NORTH SERVICE ROAD BURLIGTON ONTARIO May 4, 2017 14:53 PROJECT
J1 1ST FLOOR
GREENYORK HOMES
DEGREY DR
YORK 1

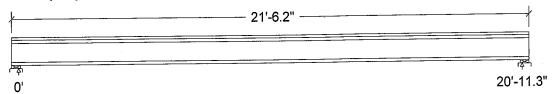
Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

Load	Type	Distribution	Pat- tern	Location Start	[ft] End	Magnitude Start	e End	Unit
Load1 .	Dead Live	Full Area Full Area	CCIII	50020		20.00 40.00		psf psf

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):



Unfactored: Dead Live	209 419	209 419
Factored: Total	890	890
Bearing:		
Resistance Joist Support	4672 13452	4672 13452
Des ratio Joist	0.19	0.19
Support	0.07	0.07
Load case	#2	4-3/8
Length	4-3/8	1-3/4
Min req'd	1-3/4	No
Stiffener Kd	No 1.00	1.00
KB support	1.00	1.00
fcp sup	769	769
Kzcp sup	1.00	1.00

Nordic 11-7/8" NI-40x 2-ply Floor joist @ 12" o.c.

Supports: All - Lumber Sill plate, No.1/No.2

Total length: 21'-6.2"; 3/4" nailed and glued OSB sheathing

This section PASSES the design code check.

Limit States Design using CSA O86-14 and Vibration Criterion:

Criterion	Analysis Value	Design Value	Unit	Analysis/Design
Shear	Vf = 890	Vr = 4672	lbs	Vf/Vr = 0.19
Moment(+)	Mf = 4659	Mr = 12509	lbs-ft	MI ANG 50.37
Perm. Defl'n	$0.11 = \langle L/999$	0.70 = L/360	in	PRO1201014016
Live Defl'n	$0.23 = \langle L/999 \rangle$	0.52 = L/480	in	O A
Total Defl'n	0.34 = L/739	1.05 = L/240	in	15 152677 1.3
Bare Defl'n	$0.25 = \langle L/999$	0.70 = L/360	in	w 30
Vibration	Lmax = 20'-11	Lv = 23'-1	ft	S. KATSOULAKOS 5
Defl'n	= 0.024	= 0.031	in	0.78

WOND. TAM26541= STRUCTURAL COMPONENT ONLY

POLINCE OF ON

J6 1ST FLOOR

Nordic Sizer - Canada 6.4

Page 2

Additional	Data:				***	T/M	VC	KN	LC#	
FACTORS:	f/E	KD	KH	KZ	KL	KT	KS	1(1)	#2	
Vr	2336	1.00	1.00	-		_	_	_	#2	
Mr+	6255	1.00	1.00	-	1.000	-	-	_	#2	
EI	371.1 m	illion	_	-	_	-		_	# 4	
CRITICAL LO	DAD COMB	INATIONS	S :							
Shear	: LC #2	= 1.25	5D + 1.5	L						
Moment (+)) : LC #2	= 1.2	5D + 1.51	L						
Deflection	on: LC #1	= 1.01) (perma	anent)						
	LC #2	= 1.01	0 + 1.0L	(live)					
1	LC #2	= 1.01	0 + 1.0L	(tota	1)					
	LC #2	= 1.01	D + 1.0L	(bare	joist)					
Bearing	: Suppo	rt 1 - :	LC #2 = 1	1.25D +	1.5L					
1	Suppo	rt 2 - 1	I.C. #2 =	1.25D +	1.5L		_			
Load Type	oc. D-dea	d W=wi	nd S=sn	ow H=e	arth, grou	ındwate	r E=ear	rinquake		
	T≔liv	e (use.o	ccupancy) Ls=1	.ive(stora	age,equ	1pment)	r=rire		
Load Pat	tarns. s=	S/2 L=	L+Ls =	no patt	ern load	in thi	s span			
All Load	Combinat	ions (L	Cs) are	listed	in the Ar	nalysis	output			
CALCULATI	ONS:									
1 5 61	DTof	f =	413e06 l	b-in2/p	oly K= 6	6.18e06	Tps/bT?	/		
"Live" de	on: Elei eflection	= Defl	ection f	rom all	non-dead	d loads	(live,	wind, s	now)	
							···			

Design Notes:

CONFORMS TO OBC 2012

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to 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. 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.

ROVINCE OF ON DWG NO . TAN 26541-17 STRUCTURAL COMPONENT ONLY

NORDIC STRUCTURES

COMPANY
TAMARACK LUMBER INC.
3269 NORTH SERVICE ROAD
BURLIGTON ONTARIO
May 4, 2017 14:59

PROJECT
J8 1ST FLOOR
GREEN YORK HOMES
DEGREY DR
YORK 1

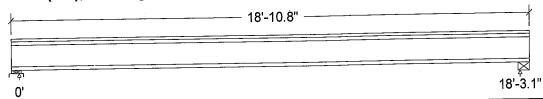
Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

Load	Туре	Distribution	Pat- tern	Location Start	[ft] End	Magnitud Start	e End	Unit
Load1 Load2	Dead Live	Full Area Full Area				20.00		psf psf

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):



	0,	
Unfactored: Dead Live	183 365	183 365
Factored: Total	776	776
Bearing: Resistance Joist Support	2336 9417	2336
Des ratio Joist Support Load case	0.33 0.08 #2	0.33
Length Min req'd Stiffener	4-3/8 1-3/4 No 1.00	1-3/4 No 1.00
Kd KB support fcp sup Kzcp sup	1.00 1.00 769 1.00	-

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

Supports: 1 - Lumber Sill plate, No.1/No.2; 2 - Steel Beam, W; Total length: 18'-10.8"; 3/4" nailed and glued OSB sheathing This section PASSES the design code check.

Limit States Design using CSA O86-14 and Vibration Criterion:

Lilling Glates Bee.	gir domig correct			
Criterion	Analysis Value	Design Value	Unit _	Analysis/Design
	Vf = 776	Vr = 2336	lbs	Vf/Vr = 0.33
Shear	1 **		lbs-ft	MF/M = 0.31
Moment(+)	Mf = 3544		IDS-IC	PROFESSION 0.15
Perm. Defl'n	$0.09 = \langle L/999$	0.61 = L/360	in 🌶	PRO 13
	$0.19 = \langle L/999 \rangle$	0.46 = L/480	in /s	.41
Live Defl'n	1	0.91 = L/240	in in ft	S. KATSOULAKOS E
Total Defl'n	0.28 = L/785	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 31
Bare Defl'n	$0.21 = \langle L/999$	0.61 = L/360	in 🗒	LATONII AVOC MI
Vibration	Lmax = 18'-3	Lv = 21'-3	ft 4	S. KATSOULAKOS 5
		= 0.034	in 💆	0,69
Defl'n	= 0.024	0.001	<u> </u>	7 //
			10	OVINCE OF ONTER STRI
				O. ATRI
			*	SIRI
				COMPON

STRUCTURAL COMPONENT ONLY

Beam1

Nordic Sizer - Canada 6.4

Page 2

A -1 -1 :4:	Dotos										
Additiona	f/E	KD	KH	K7.	KL	KT	KS	KN	LC#		
					_	_	_	_	#2		
Vr	2336	1.00			1.000	_	_	_	#2		
Mr+	11609	1.00		_	1.000	_	_	_	#2		
	547.1 m			_	-	_			—		
CRITICAL L			S:								
Shear	: LC #2		5D + 1.5								
Moment (+) : LC #2	= 1.25	5D + 1.51	Ĺ							
Deflecti	on: LC #1	= 1.01	D (perma	anent)							
	LC #2	= 1.01	D + 1.0L	(live)						
	LC #2	= 1.01	D + 1.0L	(tota	1)						
	LC #2	= 1.01	D + 1.0L	(bare	joist)						
Bearing	: Suppo	rt 1 - 1	LC #2 =	1.25D +	1.5L						
	Suppo	r+ 2 - 1	LC #2 =	1.25D +	1.5L						
Load Two	oc. D=dea	d W=wi	nd S=sn	ow H=e	arth, grou	ındwate	r E=ear	thquake	:		
	T.=liv	e (use.o	ccupancy) Ls=l	ive(stora	ıge,equ	ipment)	f=fire	:		
I road Dat	terns: s=	S/2 $T=$	I+Is =	no patt	ern load	in thi	s span				
Dodu Fac	Combinat	ions (L	Cs) are	listed	in the Ar	nalysis	output				
		10115 (1	00, 020			-					
CALCULATI	on: Elef	£ _	625006 1	h-in2	K= 6.18e	-06 lbs					
Deflecti	on: Eler eflection	L =	023600 I	vom 211	non-dead	loads	(live,	wind, s	now)		
"Live" d	eflection	. = Deil	ection I	TOM all	non dead	. 10445					
									0.000	0010	

Design Notes:

CONFORMS TO OBC 2012

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to 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. 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.



OWO NO. TAN 26542-17 STRUCTURAL COMPONENT ONLY

NORDIC **STRUCTURES**

COMPANY TAMARACK LUMBER INC. 3269 NORTH SERVICE ROAD **BURLIGTON ONTARIO** May 5, 2017 07:40

PROJECT J5 2ND FLOOR **GREENYORK HOMES** DEGREY DR YORK 1

COMPONENT ONLY

Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

ш	Loaus.							1	TT +	
١.		I	Distribution	Da+	Location	[ft]	Magnitud	ae	Unit	1
	Load	Type	DISCIPLIE	1 1		End	Start	End	ļ	
				tern	Start	Ella			psf	l
1		Dood	Full Area				20.00		1	1
Ĺ	Load1	Dead					40.00		psf	l
ı	Load2	Live	Full Area		L					_
ı	12000									

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):

----- 19'-5.8" -18'-10.8"

	0'		
Unfactored: Dead Live	189 378		189 378
Factored: Total	803		803
Bearing: Resistance Joist Support	2336 10829		2336 10829
Des ratio Joist Support	0.34 0.07	·	0.34 0.07 #2
Load case Length Min req'd Stiffener	#2 4-3/8 1-3/4 No		4-3/8 1-3/4 No 1.00
Kd KB support fcp sup	1.00 1.00 769		1.00 1.00 769 1.15
Kzcp sup	1.15	the base Manager included	

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: All - Lumber Wall, No.1/No.2

Total length: 19'-5.8"; 3/4" nailed and glued OSB sheathing with 1/2" gypsum ceiling This section PASSES the design code check.

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

Criterion Shear Moment(+) Perm. Defl'n Live Defl'n Total Defl'n Bare Defl'n	Analysis Value Vf = 803 Mf = 3794 0.11 = <l 0.21="<L/999" 0.24="L/954</th" 0.32="L/715" 999=""><th>Design Vr = Mr = 0.63 = 0.47 = 0.94 = 0.63 =</th><th>Value 2336 11609 L/360 L/480 L/240 L/360</th><th>Unit lbs lbs-ft in in in in in</th><th>Analysis/Design ROFESSHOW = 0.34 0.33 0.17 0.45 6. KATSOULAKOS</th><th></th></l>	Design Vr = Mr = 0.63 = 0.47 = 0.94 = 0.63 =	Value 2336 11609 L/360 L/480 L/240 L/360	Unit lbs lbs-ft in in in in in	Analysis/Design ROFESSHOW = 0.34 0.33 0.17 0.45 6. KATSOULAKOS	
Total Defl'n Bare Defl'n Vibration Defl'n			L/360 21'-9 0.033		S KATSOULANDO 38	4 2

WoodWorks® Sizer

for NORDIC STRUCTURES

Beam1

Nordic Sizer - Canada 6.4

Page 2

11101010	f/E	KD	KH 1.00	KZ -	KL -	KT -	KS -	KN -	LC# #2	
	11609	1.00	1.00	-	1.000		, –	-	#2 #2	
EI	547.1 m	illion	-	_	_	-	-	-	#∠	
CRITICAL L	OAD COMBI	INATIONS	S :	_						
Shear	: LC #2		5D + 1.51							
Moment (+) : LC #2	= 1.2	00 + 1.5	L anontl						
Deflecti	on: LC #1	= 1.01 - 1 01) (perma) + 1.0L	anenc, (live	.)					
	LC #2	= 1.0	D + 1.0L	(tota	1)					
	T.C. #2	= 1.0	D + 1.0L	(bare	: joist)					
Bearing	· Suppo	rt 1 - :	LC #2 =	1.25D +	1.5L					
	Suppo	rt 2 -	LC #2 =	1.25D +	· 1.5L	anduato	r E=ear	thouake		
Load Typ	es: D=dea	d W=wi	nd S=sn	OW H=€	ive(stora	iliawa ce	ioment)	f=fire		
	L=liv	e (use, o	ccupancy) rs-r	ern load	in thi	s span			~
Load Pat	terns: s=	:S/Z L=	⊔+⊔S Сс\ are	no pace listed	in the Ar	nalvsis	output			
		топо (п	CS/ arc			-	_			
CALCULAT	m. T	f =	625e06 l	b-in2	K= 6.186	e06 lbs	}		,	
"Live"	on: Eler deflection	= Defl	ection f	rom all	non-dead	d loads	(live,	wind, si	now)	
										

Design Notes:

CONFORMS TO OBC 2012

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to 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. 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.



DWO NO . TAM 26543 - 17 STRUCTURAL COMPONENT ONLY

NORDIC **STRUCTURES**

COMPANY TAMARACK LUMBER INC. 3269 NORTH SERVICE ROAD **BURLIGTON ONTARIO** May 5, 2017 07:44

PROJECT J1 2ND FLOOR GREENYORK HOMES DEGREY DR YORK 1

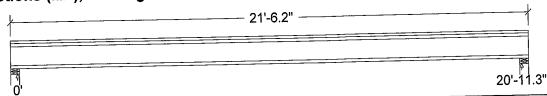
Design Check Calculation Sheet

Nordic Sizer - Canada 6.4

Loads:

Load	Туре	Distribution	Pat- tern	Location Start	[ft] End	Magnitud Start	End	Unit
Load1	Dead	Full Area Full Area				20.00 40.00		psf psf
l II.oad2	Live	rull Area						

Maximum Reactions (lbs), Bearing Resistances (lbs) and Bearing Lengths (in):



	U		
Unfactored: Dead Live	209 419		209 419
Factored:			890
Total	890		
Bearing:			Į.
Resistance	4.670		4672
Joist	4672		15470
Support	15470		
Des ratio	0.10		0.19
Joist	0.19	·	0.06
Support	0.06		#2
Load case	#2		4-3/8
Length	4-3/8		1-3/4
Min req'd	1-3/4		No
Stiffener	No		1.00
Kd	1.00		1.00
KB support	1.00		769
fcp sup	769		1.15
Kzcp sup	1.15	in the spring on top plate. No stud design included	

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

Nordic Joist 11-7/8" NI-40x 2-ply Floor joist @ 12" o.c.

Supports: All - Lumber Wall, No.1/No.2 Total length: 21'-6.2"; 3/4" nailed and glued OSB sheathing with 1/2" gypsum ceiling

This section PASSES the design code check.

Limit States Design using CSA O86-14 and Vibration Criterion:

Limit States Design using CSA COUNTY and That are the control of t											
Criterion Shear Moment (+)	Analysis Value Vf = 890 Mf = 4659	Design Value Vr = 4672 Mr = 12509	lbs lbs-ft	Analysis/Design Vf/Vr = 0.19 OFESMOWN = 0.37							
Perm. Defl'n Live Defl'n Total Defl'n	0.11 = <l 999<br="">0.23 = <l 999<br="">0.34 = L/739</l></l>	$\begin{array}{rcl} 0.70 &=& L/360 \\ 0.52 &=& L/480 \\ 1.05 &=& L/240 \end{array}$	in s	0.16 0.43 0.32							
Bare Defl'n Vibration Defl'n	$0.25 = \langle L/999 \rangle$ $Lmax = 20'-11$ $= 0.023$	0.70 = L/360 $Lv = 23' - 0.00$		KATSOULAKOS 50.36							
			——————————————————————————————————————	Q-1770 NU. 1							

STRUCTURA COMPONENT ONLY

WoodWorks® Sizer

for NORDIC STRUCTURES

Beam2

Nordic Sizer - Canada 6.4

Page 2

Additiona	al Data:								T 0 "	
FACTORS:	f/E	KD	KH	KZ	$_{ m KL}$	KT	KS	KN	LC#	
Vr	2336	1.00	1.00	-	-	-	_	-	#2	
	6255				1.000	-	-	-	#2 #2	
	371.1 m			-	-	-	_	-	#4	
	LOAD COMBI			•						
Shear	: LC #2		5D + 1.5							
Moment (-	+) : LC #2	= 1.25	5D + 1.5	L						
Deflect	ion: LC #1	= 1.01	D (perm	anent)						
			D + 1.0L							
	LC #2	= 1.01	D + 1.0L	(tota	1) 1-1-1-1					
	LC #2	= 1.01	D + 1.0L	(pare	JOISU) 1 ET					
Bearing	: Suppo	rt I	LC #2 =	1.25D +	1.5L					
_ , _	Suppo pes: D=dea	rt Z	LC #2 =	1.23D T	1.Ju	indwate	r E=ear	thquake		
Load Ty	pes: D=dea	Q W=W⊥!	na 5-811	OW n-e	ive(stora	are . emi	ioment)	f=fire		
T 1 D - 1	L=11V tterns: s=	e (use, o	ccupancy	no natt	ern load	in thi	s span			
Load Pai	d Combinat	3/2 L-	Cel are	listed	in the Ar	nalvsis	output			
CALCULAT		TOI12 (T)	CD/ GIG	110 cca			- 1			
CALCULAI	ion: Elef	£ —	/13 <u>0</u> 06 1	h-in2/n	1v K= 6	5.18e06	lbs/ply	I		
Deflect.	deflection	D_f].	ection f	rom all	non-deac	loads	(live,	wind, s	now)	
TTA6	Tellection	Dell								

Design Notes:

CONFORMS TO OBC 2012

- 1. WoodWorks analysis and design are in accordance with the 2010 National Building Code of Canada (NBC Part 4) and the CSA O86-14 Engineering Design in Wood standard (May 2014 edition).
- 2. Please verify that the default deflection limits are appropriate for your application.
- 3. Refer to 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. 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.



BWB NB . 744 2654419 STRUCTURAL COMPONENT ONLY



Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP Basment\...\B1 L(i8100)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report



Build 5033 Job Name: Address:

City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs \Flush Beams \Basment\Flush Beams \B1 L(i8100

Specifier:

Designer: Company.

Misc:

\ 1 7		
×	10-11-02	副 B1
B0		

Total Horizontal Product Length = 10-11-02

Reaction Summary (Down /	Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 5-1/2" B1, 3-1/2"	133/0 69/0	148/0 61/0			

				Live	Dead	Snow Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0 FC2 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	10-11-02	13	6		n/a
1 PBO3(i69)	Conc. Pt. (lbs)	L 00-01-12	00-01-12	61	85		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	444 ft-lbs	12,704 ft-lbs	3.5%	1	05-06-09
End Shear	144 lbs	5,785 lbs	2.5%	1	01-03-00
Total Load Defl.	L/999 (0.025")	n/a	n/a	4	05-06-09
Live Load Defl.	L/999 (0.013")	n/a	n/a	5	05-06-09
Max Defl.	0.025"	n/a	n/a	4	05-06-09
Span / Depth	13	n/a	n/a		00-00-00

Discoulus de Ossessa anta	Dim . (L × W)	Demand	De mand/ Resistance Support	De mand/ Resistance Member	Material
Bearing Supports B0 Wall/Plate B1 Post	5-1/2" x 1-3/4"	383 lbs	9.3%	3.3%	Unspecified
	3-1/2" x 1-3/4"	180 lbs	4.5%	2.4%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBG 2012

Design based on Dry Service Condition.

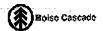
Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP Basment\...\B2 L(i7968)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report



Build 5033 Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

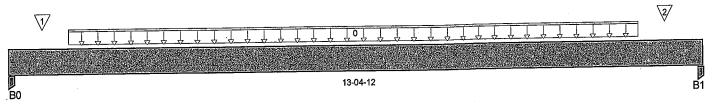
Description: Designs\Flush Beams\Basment\Flush Beams\B2 L(i7968

Specifier:

Designer:

Company.

Misc:



Total Horizontal I	Product	Length =	13-04-12
--------------------	---------	----------	----------

		, 0 (0			
Reaction Summary (Down	/n / Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 3-1/2"	1,416/0	772/0			
B1, 3-1/2"	1,403/0	766/0			

				Live	Dead	Snow Wind	irib.
Load Summary Tag Description	Load Type	Ref. Start	End	1.00	0.65	1.00 1.15	
	Unf. Lin. (lb/ft)	I 01-01-12	12-01-12	222	111		n/a
 Smoothed Load 	• •				91		n/a
1 J5(i7978)	Conc. Pt. (lbs)	L 00-07-12			=		n/a
2 J5(i7970)	Conc. Pt. (lbs)	L 12-07-12	12-07-12	194	97		IVA

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	10,146 ft-lbs	25,408 ft-lbs	39.9%	1	06-07-12
End Shear	2.876 lbs	11,571 lbs	24.9%	1	12-03-12
Total Load Defl.	L/360 (0.431")	•	66.6%	4	06-07-12
Live Load Defl.	<u>1</u> /556 (0.279")		64.8%	5	06-07-12
Max Defl.	0.431"	n/a	n/a	4	06-07-12
Span / Depth	16.3	n/a	n/a		00-00-00

Deeri	na Sunnarta	Dim . (L x W)	Demand	De mand/ Resistance Support	De mand/ Resistance Member	Material
	ng Supports	3-1/2" x 3-1/2"	3.088 lbs	38.8%	20.7%	Unspecified
B0	Post		-,		20.5%	Unspecified
B1	Post	3-1/2" x 3-1/2"	3,063 lbs	38.5%	20.5%	Onspecialed

Notes

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

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

Calculations assume member is fully braced.

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 2010 and CSA

O86.

CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWA NO . TAN 2654617 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP Basment\...\B2 L(i7968)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report

Build 5033 Job Name:

Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B2 L(i7\$

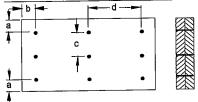
Specifier:

Designer:

Company.

Misc:

Connection Diagram



a minimum = 2"

c = 2-3/4"

b minimum = 3"

Calculated Side Load = 447.1 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Nails

ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance w ith current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

BC CALO®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, SIMPLE FRAMING SYSTEM®, VERSA-LAM®, VERSA-RIM PLUS®, VERSA-RIM®. VERSA-STRAND®, VERSA-STUD® are trademarks of Boise Cascade Wood Products L.L.C.



COMPONENT ONLY



Single 1-3/4" x 9-1/2" VERSA-LAM® 2.0 3100 SP Basment\...\B3 L(i7967)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs \Flush Beams \Basment \Flush Beams \B3 L(i7967

Specifier: Designer:

Company:

Misc:

$\overline{\mathbb{V}}$		7
] A
		-
	10-10-04 B1]
В0		•

Total Horizontal	Product	Length =	= 10-10-04
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		(5441116125141			
Reaction Summary (Do	own / Uplift) (lbs) Live	De ad	Snow	Wind .	
B0, 4-5/8"	82 / 0	82 / 0			
B1, 3-1/2"	81 / 0	66 / 0			

1 0				Live	Dead	Snow Wind	irid.
Load Summary Tag Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0 FC2 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	10-10-04	15	8		n/a
1 4(i1101)	Conc. Pt. (lbs)	L 00-01-14	00-01-14	•	15		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	503 ft-lbs	12,704 ft-lbs	4%	1	05-05-11
End Shear	163 lbs	5.785 lbs	2.8%	1	01-02-02
Total Load Defl.	L/999 (0.028")	n/a	n/a	4	05-05-11
Live Load Defl.	L/999 (0.015")	n/a	n/a	5	05-05-11
Max Defl.	0.028"	n/a	n/a	4	05-05-11
Span / Depth	13	n/a	n/a		00-00-00

				De mand/ Resistance	Demand/ Resistance Member	Material
Bearin	ng Supports	Dim . (L x W)	Demand	Support		
B0	Wall/Plate	4-5/8" x 1-3/4"	226 lbs	6.5%	2.3%	Unspecified
B1	Post	3-1/2" x 1-3/4"	204 lbs	5.1%	2.7%	Unspecified

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBG 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

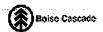
Disclosure

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STRUCTURAL COMPONENT ONLY



Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B4 H(i8105)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report



Build 5033

Job Name: Address:

City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

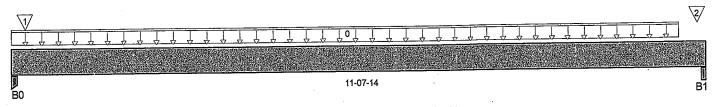
File Name: YORK 1.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B4 H(i810!

Specifier: Designer:

Company:

Misc:



Total Horizontal	Product	Length =	11-07-14
------------------	---------	----------	----------

<u></u>					
Reaction Summary (Dow	n / Uplift) (lbs)	De ad	Snow	Wind	
Bearing	Live	De au	011011		
B0, 3-1/2"	82 / 0	99 / 0			
B1, 5-1/4"	98 / 0	138/0			

				Live	Dead	Snow Wind	Trib.
Load Summary Tag Description	Load Type	Ref. Start	End	1.00	0.65	1.00 1.15	
0 FC1 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	11-02-08	14	7		n/a
1 3(i1100)	Conc. Pt. (lbs)	L 00-02-12	00-02-12		24		n/a
2 -	Conc. Pt. (lbs)	L 11-05-15	11-05-15	21	61		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	575 ft-lbs	19,364 ft-lbs	3%	1	05-09-01
End Shear	198 lbs	7,232 lbs	2.7%	1	10-02-12
Total Load Defl.	L/999 (0.019")	•	n/a	4	05-09-01
Live Load Defl.	L/999 (0.01")	n/a	n/a	5	05-09-01
Max Defl.	0.019"	n/a	n/a	4	05-09-01
Span / Depth	11.2	n/a	n/a		00-00-00

Rearin	ng Supports	Dim . (L x W)	De man d	De man d/ Re sistance Su pport	De mand/ Resistance Member	Material
B0	Post	3-1/2" x 1-3/4"	247 lbs	6.2%	3.3%	Unspecified
B1	Beam	5-1/4" x 1-3/4"	319 lbs	8.1%	2.8%	Unspecified

Notes

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

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

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

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86. CONFORMS TO OBC 2012

Design based on Dry Service Condition.

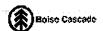
Importance Factor: Normal Part code: Part 9

Disclosure

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Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B5(i8069)



Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B5(i8069)

Specifier:

Designer:

Company. Misc:

City, Province, Postal Code:BRAMPTON, Customer:

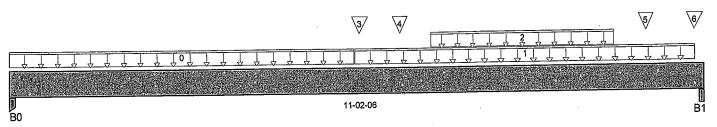
Build 5033

Job Name:

Address:

Code reports:

CCMC 12472-R



Total Horizontal Product Length = 11-02-06

Reaction Summary (Dow Bearing	n / Uplift) (lbs) Live	De ad	s	now	Wind	l			
B0, 5-1/4"	566/0	355/0							
B1, 5-1/4"	1,628 / 0	909/0							•
					Live	Dead	Snow	Wind	Trib.
Load Summary Tag Description	Load Type	Re	f. Start	En d	1.00	0.65	1.00	1.15	
0 FC1 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	05-06-06	12	6			n/a
1 FC1 Floor Material	Unf. Lin. (lb/ft)	L	05-06-06	11-00-12	9	4			n/a
2 Smoothed Load	Unf. Lin. (lb/ft)	L	06-09-00	09-09-00	417	208			n/a
3 B6(i7738)	Conc. Pt. (lbs)	Ĺ	05-07-04	05-07-04	25	24			n/a
4 J1(i8126)	Conc. Pt. (ibs)	L	06-03-00	06-03-00	371	185			n/a
5 J1(i8141)	Conc. Pt. (lbs)	Ĺ	10-03-00	10-03-00	352	176			n/a
6 5(i1182)	Conc. Pt. (lbs)	Ē	11-00-08	11-00-08		62			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	6,941 ft-lbs	38,727 ft-lbs	17.9%	1	07-03-00
End Shear	2,977 lbs	14.464 lbs	20.6%	1	09-09-04
Total Load Defl.	L/999 (0.089")	n/a	n/a	4	05-11-02
Live Load Defl.	L/999 (0.057")		n/a	5	06-01-01
Max Defl.	0.089"	n/a	n/a	4	05-11-02
Snan / Denth	10.6	n/a	n/a		00-00-00

Conc. Pt. (lbs)

				De mand/ Resistance		
Beari	ing Supports	Dim.(L x W)	Demand	Support	Member	Material
B0	Post	5-1/4" x 3-1/2"	1,293 lbs	10.8%	5.8%	Unspecified
B1	Beam	5-1/4" x 3-1/2"	3,578 lbs	45.6%	16%	Unspecified

Notes

5(i1182)

POVINCE OF

DWE NO . TAM 2654817 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B5(i8069)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

Build 5033

Job Name:

Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\Basment\Flush Beams\B5(i806)

Designer: Company.

Misc:

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

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

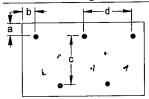
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

CONFORMS TO 080 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Connection Diagram





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

Calculated Side Load = 380.4 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d Annual Nails

312" ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance w ith current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DWO NO . TAN 26549-17 STRUGTURAL COMPONENT ONLY



Single 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\Flush Beams\B6(i7738)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

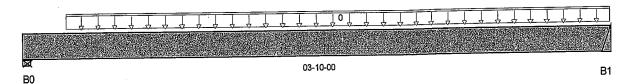
File Name: YORK 1.mmdl.

Description: Designs\Flush Beams\Basment\Flush Beams\B6(i7738)

Specifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 03-10-00

Reaction Summary (Dov	vn / Uplift) (lbs)		0	Wind	
Bearing	Live	De ad	Snow	VVIIIG	
B0, 3-1/2"	24 / 0	24 / 0			
B1	27 / 0	24 / 0			

			Li	ive De	ead Snow	Wind Trib.
Load Summary Tag Description	Load Type	Ref. Start	End 1.	.00 0.0	65 1.00	1.15
0 FC1 Floor Material	Unf. Lin. (lb/ft)	L 00-03-08	03-10-00 14	4 7		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	58 ft-lbs	19,364 ft-lbs	0.3%	1	01-11-12
End Shear	27 lbs	7,232 lbs	0.4%	1	01-03-06
Total Load Defl.	L/999 (0")	n/a	n/a	4	01-11-12
Live Load Defl.	L/999 (0")	n/a	n/a	5	01-11-12
Max Defl.	0"	n/a	n/a	4	01-11-12
Span / Depth	3.5	n/a	n/a		00-00-00

Popri	ng Supports	Dim . (L × W)	Demand	De man d/ Re sistance Su pport	Demand/ Resistance Member	Material
B0	Wall/Plate	3-1/2" x 1-3/4"	66 lbs	2.5%	0.9%	Unspecified
B1	Hanger	2" x 1-3/4"	71 lbs	n/a	1.7%	HUS1.81/10

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA **CONFORMS TO OBC 2012**

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here 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 1-800-964-6999 before installation.

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COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP Basment\...\B7(i8021)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

Build 5033

Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

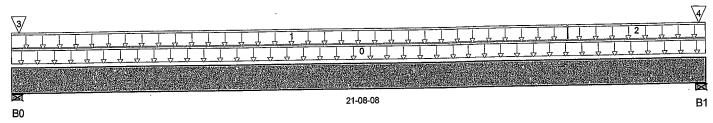
Description: Designs\Flush Beams\Basment\Flush Beams\B7(i8021)

Specifier:

Designer:

Company.

Misc:



Total Horizontal Produ	ct Length = 21-08-08
------------------------	----------------------

Reaction Summary (Down	/ Uplift) (lbs)	Dood	Snow	Wind	
Be aring	Live	Dead	Silow		
B0, 5-1/2"	514/0	412/0		•	
B1, 5-1/2"	488/0	398/0			

			Liv	/e Dead	Snow Wind	IIID.
Load Summary Tag Description	Load Type	Ref. Start	End 1.0	0.65	1.00 1.15	
	Unf. Lin. (lb/ft)	L 00-00-00	21-08-08 19	10		n/a
0 FC1 Floor Material	• •		17-04-08 20			n/a
1 FC1 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00				n/a
2 FC1 Floor Material	Unf. Lin. (lb/ft)	L 17-04-08	21-08-08 6	3		
	Conc. Pt. (lbs)	L 00-02-12	00-02-12 94	. 71		n/a
3 E10(i851)	` '	_ 00 0	21-05-12 11			n/a
4 2(i1099)	Conc. Pt. (lbs)	L 21-05-12	21-00-12 11	9 00		

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	5,258 ft-lbs	38,727 ft-lbs	13.6%	1	10-07-14
End Shear	913 lbs	14.464 lbs	6.3%	1	01-05-06
Total Load Defl.	L/825 (0.304")	1.046"	29.1%	4	10-10-14
Live Load Defl.	L/1,499 (0.167"	0.697"	24%	5	10-10-14
	0.304"	n/a	n/a	4	10-10-14
Max Defl. Span / Depth	21.1	n/a	n/a		00-00-00

De sain a Summerte	Dim.(L x W)	De man d	Resistance Support	Resistance Member	Material
Bo Wall/Plate B1 Wall/Plate	5-1/2" x 3-1/2" 5-1/2" x 3-1/2"	1,285 lbs	15.6% 15%	5.5% 5.2%	Unspecified Unspecified

Notes

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

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

Calculations assume member is fully braced.

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 2010 and CSA CONFORMS TO OBG 2012 O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO NO . TAM 26551 -17 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0-3100 SP Basment\...\B7(i8021)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:09

BC CALC® Design Report

Build 5033 Job Name:

City, Province, Postal Code: BRAMPTON, Customer:

Code reports:

Address:

CCMC 12472-R

File Name: YORK 1 mmdl

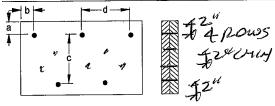
Description: Designs\Flush Beams\Basment\Flush Beams\B7(i802

Specifier: Designer:

Company.

Misc:

Connection Diagram



a minimum = 2" c = 7-7/8" d=@'6" b minimum = 3"

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Member has no side loads.

Connectors are: 16d / Nails 312" ÁRDOX SPIRAL

Disclosure

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HOVINCE OF ONTE

DW8 HO . TAN 26551-17 STRUCTURAL COMPONENT ONLY



Quadruple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B8(i8058)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report

Build 5033 Job Name: Address:

City, Province, Postal Code:,

Customer:

Code reports:

CCMC 12472-R

File Name:

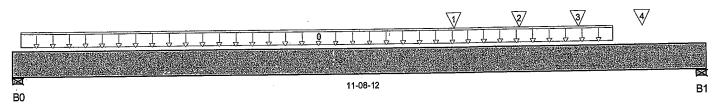
Description: Designs\Flush Beams\1st Floor\Flush Beams\88(i8058)

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 11-08-12

		TOTAL TOTAL OTTAL	Oddet Zengin i		
Reaction Summary (Dow	n / Uplift) (Ibs) Live	De ad	Snow	Wind	
B0, 5-1/2"	3,641 / 0	2,074/0			
B1, 5-1/2"	5,257 / 0	2,967 / 0			

1 1 0			Live	Dead	Snow Wina	itis.
Load Summary Tag Description	Load Type	Ref. Start	En d 1.00	0.65	1.00 1.15	
0 Smoothed Load	Unf. Lin. (lb/ft)	L 00-01-12	10-01-12 395	198		n/a
1 B9(i8067)	Conc. Pt. (lbs)	L 07-04-14	07-04-14 3,153	1,881		n/a
2 J1(i8027)	Conc. Pt. (lbs)	L 08-06-08	08-06-08 564	282		n/a
3 J1(i8163)	Conc. Pt. (lbs)	L 09-06-08	09-06-08 429	215		n/a
4 -	Conc. Pt. (lbs)	L 10-07-09	10-07-09 760	381		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	33,417 ft-lbs	80,553 ft-lbs	41.5%	1	07-04-14
End Shear	10,966 lbs	28,927 lbs	37.9%	1	10-03-06
Total Load Defl.	L/557 (0.236")	0.547"	43.1%	4	06-01-12
Live Load Defl.	L/875 (0.15")	0.365"	41.1%	5	06-01-12
Max Defl.	0.236"	n/a	n/a	4	06-01-12
Span / Depth	11.1	n/a	n/a		00-00-00

Rearin	ia Supports	Dim.(L x W)	De man d	Resistance Support	Resistance Member	Material
Be aring Supports B0 Wall/Plate B1 Wall/Plate		5-1/2" x 7"	8,054 lbs	49%	17.1%	Unspecified
		5-1/2" x 7"	11,593 lbs	70.5%	24.7%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

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

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

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO NO . TAN 26552-17 STRUCTURAL COMPONENT ONLY



Quadruple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B8(i8058)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code:,

Customer:

Code reports:

CCMC 12472-R

File Name:

Description: Designs\Flush Beams\1st Floor\Flush Beams\B8(i805{

Specifier:

Designer.

Company. Misc:

Connection Diagram

Concentrated side-load exceeds allowable magnitude for connection design. Please consult a technical representative or Professional Engineer for the design of the connection.

provine 2 nows by @ 4302 BONES clu was wors laws e wol.

Di sclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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> S. KATSOULAKOS POVINCE OF ONITE DWO NO. PAN 26552-17

STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B9(i8067)

May 15, 2017 12:56:10

BC CALC® Design Report

Dry | 1 span | No cantilevers | 0/12 slope (deg)

File Name: YQRK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\89(i8067)

Specifier:

Designer: Company:

City, Province, Postal Code: BRAMPTON, Customer:

Build 5033

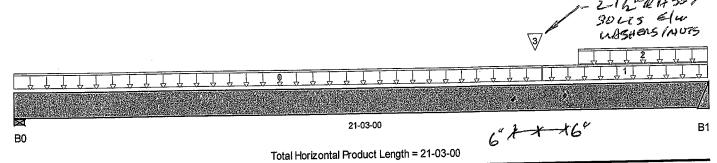
Job Name:

Address:

Code reports:

CCMC 12472-R

Misc:



Reaction Summary (Down	/ Uplift) (lbs)	Dead	Snow	Wind	
B0, 5-1/2"	1,286 / 0	876/0			
B1	3,141/0	1,874 / 0			

_					Live	Dead	Snow	Wind	i rip.
	ad Summary g Description	Load Type	Ref. Start	End	1.00	0.65	1.00	1.15	<u>.</u>
-	<u> </u>	Unf. Lin. (lb/ft)	1 00-00-00	16-01-12	54	27			n/a
U	FC3 Floor Material	• •	1 16-01-12	21-03-00	27	14			n/a
1	FC3 Floor Material	Unf. Lin. (lb/ft)		21-03-00		107			n/a
2	FC3 Floor Material	Unf. Lin. (lb/ft)				1.436			n/a
3	B11(i8060)	Conc. Pt. (lbs)	L 15-11-02	15-11-02	2,500	1,430		•	

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	29,640 ft-lbs	60,415 ft-lbs	49.1%	1	15-11-02
End Shear	6,436 lbs	21,696 lbs	29.7%	1	20-01-02
Total Load Defl.	L/261 (0.956")	1.037"	92.1%	4	11-07-09
	L/424 (0.588")	0.692"	84.9%	5	11-07-09
Live Load Defl.	0.956"	n/a	n/a	4	11-07-09
Max Defl. Span / Depth	21	n/a	n/a		00-00-00

Bearing Supports		Dim . (L x W)	De man d	De man d/ Re sistance Support	Resistance Member	Material
					0.00/	Unavaoifiad
B0	Wall/Plate	5-1/2" x 5-1/4"	3,025 lbs	24.5%	8.6%	Unspecified
		OIL E 4 /4!!	7.055 lbs	n/a	55.1%	HGUS5.50/10
B1	Hanger	2" x 5-1/4"	7,000 108	100	00.170	

Notes

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

Hanger Manufacturer: Unassigned

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

O86.

CONFORMS TO OBC 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO NO . TAN 26553.17 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B9(i8067)

BC CALC® Design Report



Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

Build 5033 Job Name:

Address: City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\89(i8067

Designer: Company:

Misc:

Connection Diagram

Concentrated side-load exceeds allowable magnitude for connection design. Please consult a technical representative or Professional Engineer for the design of the connection.

BOLTUL

PROVIDE TROWS OF 3½" ARBOX SPIRAL NAILS @ & "O/C FOR MULTI-PLY NAILING, MAINTAIN A MIN. Z'LUMBER EDGE/END DISTANCE, DO NOT USE AIR NAILS STAGGERMANS 4" GETWEEN PLES

Di sclosure

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DWO NO . PAN 26553-17 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B10(i8138)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report



Build 5033 Job Name: Address:

City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

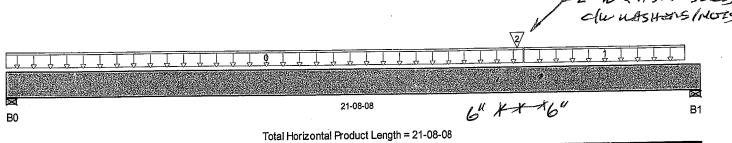
File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B10(i8138)

Specifier:

Designer: Company.

Misc:



Reaction Summary (Down / Bearing	Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 5-1/2"	1,076 / 0	773/0 1.442/0		•	
B1, 5-1/2"	2,265 / 0	1,442/U			•

	ad Comemons				Live	Dead	Snow Wind	Trib.
	oad Summary g Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0	FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-00-00	16-01-12	38	19		n/a
1	FC3 Floor Material	Unf. Lin. (lb/ft)	L 16-01-12	21-03-00	19	9		n/a
2	B11(i8060)	Conc. Pt. (lbs)	L 15-11-02	15-11-02	2,628	1,467		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	27,005 ft-lbs	60,415 ft-lbs	44.7%	1	15-11-02
End Shear	5,1171bs	21,696 lbs	23.6%	1	20-03-02
Total Load Defl.	L/291 (0.864")	1.046"	82.6%	4	11-10-04
Live Load Defl.	Ľ478 (0.525 ^t)	0.697"	75.2%	5	11-10-04
Max Defl.	0.864"	n/a	n/a	4	11-10-04
Span / Depth	21.1	n/a	n/a		00-00-00

				De mand/ Re sistance			
Bearin	ng Supports	Dim . (L x W)	Demand	Support	Member	Material	
B0	Wall/Plate	5-1/2" x 5-1/4"	2,581 lbs	20.9%	7.3%	Unspecified	
B1	Wall/Plate	5-1/2" x 5-1/4"	5,200 lbs	42.2%	14.8%	Unspecified	

Notes

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

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

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA CONFORMS TO OBG 2012

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO NO . TAN 26554 - 17 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B10(i8138)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B10(i81;

Specifier:

Designer: Company.

City, Province, Postal Code: BRAMPTON,

Customer: Code reports:

Build 5033

Job Name:

Address:

CCMC 12472-R

Misc:

Connection Diagram

Concentrated side-load exceeds allowable magnitude for connection design. Please consult a technical representative or Professional Engineer for the design of the connection. On with

MAKING 7

BOULING

PROVIDE4 ROWS OF 31/2" ARDOX SPIRAL NAILS @ 8 0/C FOR MULTI-PLY NAILING, MAINTAIN MIN. Z'LUMBER EDGE/END DISTANCE DO NOT USE AIR NAILS STAGGENHAILS Y" BETWEEN PUS

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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DWO NO . TAM 26554-17 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B11(i8060)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

B1

Trib

BC CALC® Design Report



Build 5033 Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B11(i8060)

Specifier:

Designer: Company:

Misc:

2	3	4	5/	<u> </u>		-man-	ŢŢ	 	
		:		16-11-08					D 1

B₀

Total Horizontal Product Length = 16-11-08

Reaction Summary (Down / Uplift) (lbs)								
Be aring `	Live	De ad	Snow	Wind				
B0	2,629 / 0	1,467 / 0						
B1	2,565/0	1,436 / 0						

ء ا	ad Summanı					Live	Dead	Snow	wina	I I I I I
	ad Summary Description	Load Type	Ref	. Start	End	1.00	0.65	1.00	1.15	
0	Smoothed Load	Unf. Lin. (lb/ft)	L	05-04-04	12-03-08	307	154			n/a
1	Smoothed Load	Unf. Lin. (lb/ft)	L	12-04-04	16-03-08	289	144			n/a
2	J2(i8104)	Conc. Pt. (lbs)	L	00-11-08	00-11-08	407	203			n/a
3	J2(i8029)	Conc. Pt. (lbs)	L	02-03-08	02-03-08	432	216			n/a
4	J2(i8093)	Conc. Pt. (lbs)	L	03-07-08	03-07-08	432	216			n/a
5	J2(i8049)	Conc. Pt. (lbs)	L	04-11-08	04-11-08	361	181			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	25,004 ft-lbs	60,415 ft-lbs	41.4%	1	08-10-04
End Shear	5,616 lbs	21,696 lbs	25.9%	1	15-09-10
Total Load Defl.	L/329 (0.61")	0.837"	72.9%	4	08-07-04
Live Load Defl.	L/512 (0.392")	0.558"	70.3%	5	08-07-04
Max Defl.	0.61"	n/a	n/a	4	08-07-04
Span / Depth	16.9	n/a	n/a		00-00-00

De man d/ De mand/ Resistance Resistance Dim. (L x W) Material De man d Support Member **Bearing Supports** 45.1% HGUS5.50/10 5,778 lbs n/a 2" x 5-1/4" B₀ Hanger 44% HGUS5.50/10 n/a 2" x 5-1/4" 5,643 lbs В1 Hanger

Notes

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

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

Calculations assume member is fully braced.

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 2010 and CSA

O86.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

POLYCE OF ON CONFORMS TO OBC 2012

poth

DWO NO . TAM 26555 17 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B11(i8060)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report



Build 5033 Job Name:

Address: City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

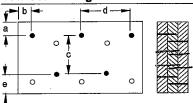
File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B11(i806

Specifier: Designer: Company.

Misc:

Connection Diagram



4 Prows

a minimum = 2" b minimum = 3"

c = 67-7/8" d = 🎾

6" e minimum = 2"

Calculated Side Load = 650.8 lb/ft

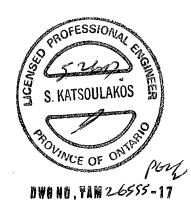
Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record. Nailing schedule applies to both sides of the member.

Connectors are: 16d 📉 🚟 Nails

31/2" ARDOX SPIRAL Disclosure

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STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B12(i7533)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report



Build 5033 Job Name:

Address: City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

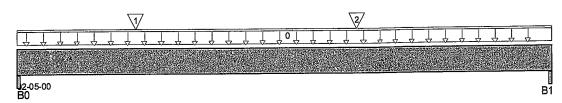
File Name: YORK 1.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B12(i7533)

Specifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 02-05-00

Reaction Summary (Down	/ Uplift) (lbs) Live	De ad	Snow	Wind	
B0, 5"	319/0	336/0	213/0		
B1,5"	267/0	310/0	213/0		·

Load Summary				Live	Dead	Snow Wind	, Trib.
Tag Description	Load Type	Ref. Start	En d	1.00	0.65	1.00 1.15	
0 User Load	Unf. Lin. (lb/ft)	L 00-00-00	02-05-00	65	166	176	n/a
1 J4(i7552)	Conc. Pt. (lbs)	L 00-06-06	00-06-06	183	92		n/a
2 J4(i7538)	Conc. Pt. (lbs)	L 01-06-04	01-06-04	241	121		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	341 ft-lbs	38,727 ft-lbs	0.9%	1	01-06-04
End Shear	105 lbs	14,464 lbs	0.7%	11	01-04-14
Total Load Defl.	L/999 (0")	n/a	n/a	35	01-02-13
Live Load Defl.	L/999 (0")	n/a	n/a	51	01-02-13
Max Defl.	0" ` ´	n/a	n/a	35	01-02-13
Span / Depth	1.7	n/a	n/a		00-00-00

Bearing Supports		Dim.(LxW)	Demand	Resistance Support	Resistance Member	Material	
B0	Beam	5" x3-1/2"	1,005 lbs	13.4%	4.7%	Unspecified	
B1	Beam	5" x3-1/2"	894 lbs	12%	4.2%	Unspecified	

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

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

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

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 2010 and CSA

Unbalanced snow loads determined from building geometry were used in selected products CONFORMS TO OBG 2012 verification.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO HD . PAN 2655617 STRUCTURAL COMPONENT ONLY



Double 1-3/4"-x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B12(i7533)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 15, 2017 12:56:10

BC CALC® Design Report

*

Build 5033

Job Name: Address:

City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1.mmdl

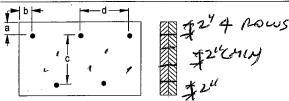
Description: Designs\Flush Beams\1st Floor\Flush Beams\B12(i75:

Specifier: Designer:

Company.

Misc:

Connection Diagram



a minimum = 2"

c=7-7/8"

b minimum = 3" d = 2"

Calculated Side Load = 373.3 lb/ft

 $\label{lem:connection} Connection \ design \ assumes \ point \ load \ is \ top-loaded. \ For \ connection \ design \ of \ side-loaded \ point \ loads, \ please \ consult \ a \ technical \ representative \ or \ professional \ of \ Record.$

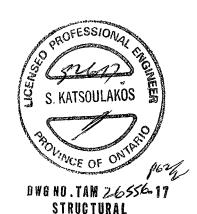
Connectors are: 16d Analis

312" ARDOX SPIRAL

Disclosure

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COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B12 B(i8755)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:32

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

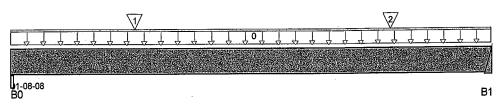
File Name: YORK 1 ELEV B.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B12 B(i875

Specifier:

Designer: Company:

Misc:



Total Horizontal Product Length = 01-08-08

Total For Earlies Language Language Co.									
Reaction Summary (Down / Uplift) (lbs)									
Bearing	Live	De ad	Snow	Wind					
B0,5"	232/0	214/0	35 / 0						
B1	182/0	163/0	26 / 0						
Load Summary				Live	Dead	Snow Wind	Trib.		

Lo	ad Summary					Live	Dead	Snow	Wind	Trib.
	g Description	Load Type	Re	f. Start	End	1.00	0.65	1.00	1.15	
Ō	E18(i8934)	Unf. Lin. (lb/ft)	L	00-00-00	01-08-08	17	96	36		n/a
1	J4(i8806)	Conc. Pt. (lbs)	L	00-05-04	00-05-04	187	94			n/a
2	J4 (i8757)	Conc. Pt. (lbs)	L	01-04-02	01-04-02	198	99			n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	116 ft-lbs	38,727 ft-lbs	0.3%	1	01-03-13
End Shear	57 lbs	9,401 lbs	0.6%	0	00-06-10
Span / Depth	1.3	n/a	n/a		00-00-00

Beari	ng Supports	Dim . (L x W)	De man d	Resistance Support	Resistance Member	Material
B0	Beam	5" x 3-1/2"	634 lbs	6.8%	3%	Unspecified
B1	Hanger	2" x 3-1/2"	490 lbs	n/a	5.7%	HGUS410

Notes

Calculations assume member is fully braced.

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 2010 and CSA

O86.

CONFORMS TO OBG 2012

Unbalanced snow loads determined from building geometry were used in selected products

verification.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

POLINCE OF ONT

DWO NO . TAM 26557-17 STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\...\B12 B(i8755)

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:32

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

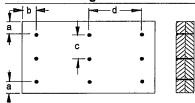
File Name: YORK 1 ELEV B.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B12 B(i8

Specifier: Designer:

Company: Misc:

Connection Diagram



a minimum = 2" c = 3-15/16" b minimum = 3"

Calculated Side Load = 479.3 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 16d 🥱 Nails

312" ARDOX SPIRAL

Disclosure

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STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B13 B()

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:31

BC CALC® Design Report **Build 5033**

Job Name: Address:

City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK 1 ELEV B.mmdl

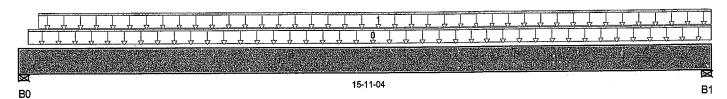
Description: Designs\Flush Beams\1st Floor\Flush Beams\B13 B()

Specifier:

Designer:

Company:

Misc:



Total Horizontal Product Length = 15-11-04

Reaction Summary (Down / Uplift) (lbs)									
Be aring	Live	De ad	Snow	Wind					
B0, 5-1/2"	1,205/0	1,782 / 0	2,171/0						
B1, 5-1/2"	1,268 / 0	1,877 / 0	2,303/0			A.			

10	ad Summary				Live	Dead	Snow Wind	Trib.
	Description	Load Type	Ref. Start	End	1.00	0.65	1.00 1.15	
0	FC3 Floor Material	Unf. Lin. (lb/ft)	L 00-02-10	15-11-04	41	21		n/a
1	E20(i8936)	Unf. Lin. (lb/ft)	L 00-05-08	15-11-04	118	197	289	n/a

	Factored	Factored	Demand /	Load	Location
Controls Summary	Dem and	Resistance	Resistance	Case	
Pos. Moment	23,155 ft-lbs	60,415 ft-lbs	38.3%	13	07-11-10
End Shear	5,264 lbs	21,696 lbs	24.3%	13	01-05-06
Total Load Defl.	L/372 (0.488")	0.757"	64.5%	45	07-11-10
Live Load Defl.	L/610 (0.298")	0.505"	59%	61	07-11-10
Max Defl.	0.488"	n/a	n/a	45	07-11-10
Span / Depth	15.3	n/a	n/a		00-00-00

Rear	ing Supports	Dim.(L x W)	De mand	Resistance Support	Resistance Member	Material
B0	Wall/Plate	5-1/2" x 5-1/4"	6,086 lbs	39.5%	17.3%	Unspecified
B1	Wall/Plate	5-1/2" x 5-1/4"	6,435 lbs	41.7%	18.3%	Unspecified

Notes

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

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

Calculations assume member is fully braced.

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

BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA

Unbalanced snow loads determined from building geometry were used in selected products

verification.

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9



DWO NO . TAM 2655617 STRUCTURAL COMPONENT ONLY



Triple 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B13 B()

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:31

BC CALC® Design Report

Build 5033 Job Name:

Address: City, Province, Postal Code: BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

File Name: YORK1 ELEVB.mmdl

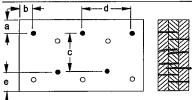
Description: Designs\Flush Beams\1st Floor\Flush Beams\B13 B()

Specifier: Designer:

Company.

Misc:

Connection Diagram



4 Rows

a minimum = 1" c = 6-7/8" d= 🗱 🖁 " b minimum = 3" e minimum = 2"

Nailing schedule applies to both sides of the member.

Member has no side loads.

Connectors are: 16d 🚧 , Nails

312" ARDOX SPIRAL

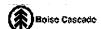
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> SHOVINCE OF ONTHE DWO NO. TAM26558-17

> > STRUCTURAL COMPONENT ONLY



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B14()

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:32

BC CALC® Design Report

Build 5033

Job Name: Address:

City, Province, Postal Code:BRAMPTON,

Customer:

Code reports:

CCMC 12472-R

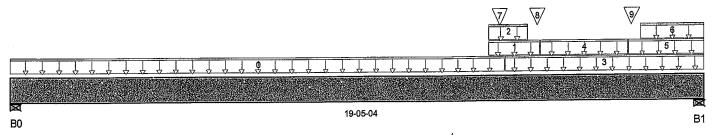
File Name: YORK 1 ELEV B.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B14()

Specifier: Designer:

Company.

Misc:



Total Horizontal Product Length = 19-05-04

Reaction Summary (Down / Uplift) (lbs)								
Bearing	Live	De ad	Snow	Wind				
B0, 2-3/4"	281/0	355/0	106/0					
B1 5-1/2"	482/0	896/0	616/0					

١٨	ad Summary					Live	Dead	Snow	Wind	Trib.
	au Summary Description	Load Type	Ref	f. Start	En d	1.00	0.65	1.00	1.15	
0	FC3 Floor Material	Unf. Lin. (lb/ft)	L	00-00-00	13-09-12	22	11			n/a
1	E21(i8937)	Unf. Lin. (lb/ft)	L	13-04-04	14-09-12		81			n/a
2	E21(i8937)	Unf. Lin. (lb/ft)	L	13-04-04	14-05-12	36	39	114		n/a
3	FC3 Floor Material	Unf. Lin. (lb/ft)	L	13-09-12	19-05-04	15	7			n/a
4	E22(i8938)	Unf. Lin. (lb/ft)	L	14-09-12	17-03-12		41			n/a
5	E17(i8935)	Unf. Lin. (lb/ft)	Ľ	17-03-12	19-05-04		81			n/a
6	E17(i8935)	Unf. Lin. (lb/ft)	L	17-07-12	19-05-04	36	39	114		n/a
7	B12 B(i8755)	Conc. Pt. (lbs)	L	13-08-00	13-08-00	158	146	24		n/a
8	E21(i8937)	Conc. Pt. (lbs)	L	14-08-12	14-08-12	58	87	184		n/a
9	E17(i8935)	Conc. Pt. (lbs)	L	17-04-12	17-04-12	56	84	177		n/a

Controls Summary	Factored Demand	Factored Resistance	Demand / Resistance	Load Case	Location
Pos. Moment	6,644 ft-lbs	38,727 ft-lbs	17.2%	1	13-08-00
End Shear	1,749 lbs	14,464 lbs	12.1%	13	17-11-14
Total Load Defl.	L/732 (0.309")	0.944"	32.8%	35	10-03-13
Live Load Defl.	L/1,515 (0.149")	0.629"	23.8%	51	10-03-13
Max Defl.	0.309" `	n/a	n/a	35	10-03-13
Span / Depth	19.1	n/a	n/a		00-00-00

Beari	ing Supports	Dim . (L x W)	Demand	De man d/ Re s istance Su pport	De mand/ Re sistance Me mbe r	Material
B0	Wall/Plate	2-3/4" x 3-1/2"	919 lbs	17.9%	7.8%	Unspecified
B1	Wall/Plate	5-1/2" x 3-1/2"	2,285 lbs	22.2%	9.7%	Unspecified

DWO NO . TAM 26559-17 STRUCTURAL

POLINICE OF ONTHE

COMPONENT ONLY

Notes



Double 1-3/4" x 11-7/8" VERSA-LAM® 2.0 3100 SP 1st Floor\Flush Beams\B14()

Dry | 1 span | No cantilevers | 0/12 slope (deg)

May 19, 2017 08:14:32

BC CALC® Design Report

File Name: YORK 1 ELEV B.mmdl

Description: Designs\Flush Beams\1st Floor\Flush Beams\B14()

Specifier: Designer: Company.

Misc:

City, Province, Postal Code: BRAMPTON,

Customer:

Build 5033

Job Name:

Address:

Code reports:

CCMC 12472-R

Design meets Code minimum (L/240) Total load deflection criteria. Design meets Code minimum (L/360) Live load deflection criteria.

Calculations assume member is fully braced.

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

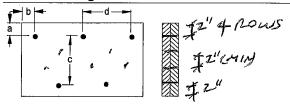
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2010 and CSA O86.

Unbalanced snow loads determined from building geometry were used in selected products 2012

Design based on Dry Service Condition.

Importance Factor: Normal Part code: Part 9

Connection Diagram



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

Calculated Side Load = 22.2 lb/ft

Connection design assumes point load is top-loaded. For connection design of side-loaded point loads, please consult a technical representative or professional of Record.

Connectors are: 344 ARDOX SPIRAL

Disclosure

Completeness and accuracy of input must be verified by anyone who would rely on output as evidence of suitability for particular application. Output here based on building code-accepted design properties and analysis methods. Installation of Boise Cascade engineered w ood products must be in accordance with current Installation Guide and applicable building codes. To obtain Installation Guide or ask questions, please call 1-800-964-6999 before installation.

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