Brg

1

2

2 -

Hanger

Direction

Vertical

Vertical

1 - SPF 2.375"

2.000"

Page 1 of 29

OF PERMIT PLANS

Client: **GREENPARK** Project:

OSHAWA, ON

ZADORRA ESTATES **ZADORRA ESTATES**

WС Input by: Job Name: RIVER 2-2 STD

6/27/2023

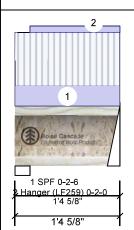
Project #

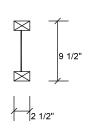
Date:

9.500" - PASSED

Address:







Snow

88 L

85 L

0

0

Wind

1.25D+1.5L

1.25D+1.5L

0

0

	M	emb	er Inf	ormation	ì
--	---	-----	--------	----------	---

Application:	Floor (Residential)
Design Method:	LSD
Building Code:	NBCC 2015
	OBC 2012(2020 Update)
Load Sharing:	No
Deck:	Not Checked
Vibration:	Not Checked
	Design Method: Building Code: Load Sharing: Deck:

Unfactored Reactions UNPATTERNED lb (Uplift) Live

42

40

5%

5%

Vert

Vert

Bearing	Bearings and Factored Reactions									
Bearing	Length	Dir.	Cap. React D/L lb	Total Ld. Case	Ld. Comb.					

24 / 64

25 / 60

Dead

19

20

Analysis Results

Dead:

Ana l ysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	21 ft-lb	8 1/2"	4095 ft-lb	0.005 (1%)	1.25D+1.5L	L
Unbraced	21 ft-lb	8 1/2"	4095 ft-lb	0.005 (1%)	1.25D+1.5L	L
Shear	72 lb	1'3 3/8"	1830 lb	0.040 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/144591)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/71071)	8 1/2"	0.038 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.000 (L/47650)	8 1/2"	0.057 (L/240)	0.005 (1%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

15 PSF

- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



JUNE 29, 2023

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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 1-4-10	1-5-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-6 to 1-4-10		Тор	7 PLF	0 PLF	0 PLF	0 PLF	

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be cut or drilled

 2. Refer to latest copy of the IJoist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-qly fastening details and handling/erection details

 3. Damaged IJoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

- Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent poorling.

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Page 2 of 29



Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES**

Date: Input by:

Job Name: RIVER 2-2 STD

OSHAWA, ON Project #

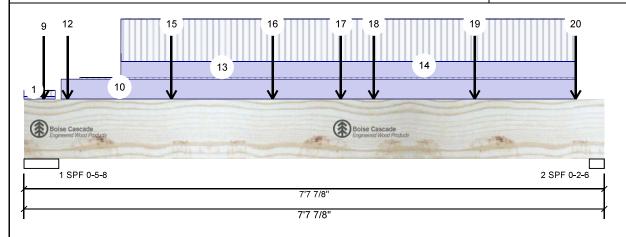
₩₩₩₩₩₩₩L 2.1E 3100 SP

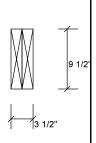
1.750" X 9.500'

Level: Ground Floor

6/27/2023

W C





Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	360
Deflection TL:	240
Importance:	Normal - II
General Load	

40 PSF

15 PSF

Application: Floor (Residential) Design Method: LSD Building Code: **NBCC 2015** OBC 2012(2020 Update) Load Sharing:

Not Checked Deck: Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	3372	1656	0	0
2	Vertical	1204	733	0	0
1					

Bearings and Factored Reactions

Bearing	Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF	5.500"	Vert	60%	2071 / 5058	7128	L	1.25D+1.5L
2 - SPF	2.375"	Vert	53%	916 / 1805	2721	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5030 ft-lb	4' 3/16"	23220 ft-lb	0.217 (22%)	1.25D+1.5L	L
Unbraced	5030 ft-lb	4' 3/16"	23220 ft-lb	0.217 (22%)	1.25D+1.5L	L
Shear	4577 lb	1'3"	10574 lb	0.433 (43%)	1.25D+1.5L	L
Perm Defl in.	0.025 (L/3484)	3'11 3/16"	0.238 (L/360)	0.103 (10%)	D	Uniform
LL Defl inch	0.039 (L/2169)	3'11"	0.238 (L/360)	0.166 (17%)	L	L
TL Defl inch	0.064 (L/1337)	3'11 1/16"	0.356 (L/240)	0.180 (18%)	D+L	L

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-4-15	0-6-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Point	0-3-2		Тор	9 lb	25 lb	0 lb	0 l b	J4
	Bearing Length	0-5-8							
5	Point	0-3-2		Тор	7 l b	0 lb	0 lb	0 l b	Wall Self Weight

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 3 of 29

OF PERMIT PLANS Nov 23 2023

..Continued from page 1

Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

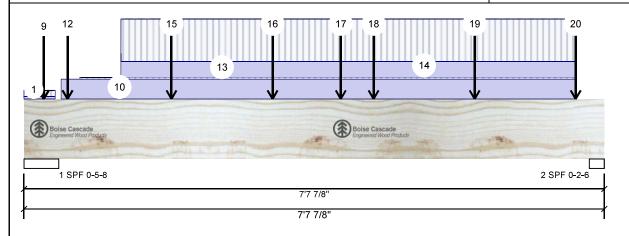
OSHAWA,ON Project #

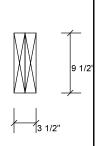
F10 FF BW DWS 5 LAND LVL 2.1E 3100 SP

1.750" X 9.500"

MISSEP

Level: Ground Floor





Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
Bearing Length	0-5-8							
Point	0-3-2		Тор	14 b	37 lb	0 l b	0 lb	J4
Bearing Length	0-5-8							
Point	0-3-2		Тор	0 lb	1 lb	0 lb	0 lb	
Bearing Length	0-5-8							
Point	0-3-2		Тор	11 l b	0 lb	0 l b	0 lb	Wall Self Weight
Bearing Length	0-5-8							
Part. Uniform	0-5-14 to 7-3-8		Тор	66 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
Point	0-6-14		Тор	555 lb	1348 lb	0 l b	0 lb	F8
Bearing Length	0-3-8							
Point	0-6-14		Near Face	471 l b	1150 lb	0 l b	0 lb	F8
Tapered Start	0-8-13		Тор	2 PLF	4 PLF	0 PLF	0 PLF	
End	7-3-8			2 PLF	4 PLF	0 PLF	0 PLF	
Part. Uniform	1-3-6 to 7-3-8		Тор	53 PLF	141 PLF	0 PLF	0 PLF	J1
Point	1-11-6		Near Face	84 lb	225 lb	0 l b	0 lb	J2
Point	3-3-6		Near Face	70 l b	186 l b	0 l b	0 lb	J2
Point	4-2-3		Near Face	90 lb	129 l b	0 l b	0 lb	F8
Point	4-7-6		Near Face	57 l b	152 l b	0 l b	0 lb	J2
Point	5-11-6		Near Face	86 lb	229 lb	0 l b	0 lb	J2
Point	7-3-6		Near Face	79 l b	211 lb	0 lb	0 lb	J2
Self Weight				9 PLF				
	Bearing Length Point Bearing Length Point Bearing Length Point Bearing Length Part. Uniform Point Bearing Length Point Tapered Start End Part. Uniform Point Point Point Point Point Point Point Point Point	Bearing Length 0-5-8 Point 0-3-2 Bearing Length 0-5-8 Point 0-3-2 Bearing Length 0-5-8 Point 0-3-2 Bearing Length 0-5-8 Part. Uniform 0-5-14 to 7-3-8 Point 0-6-14 Bearing Length 0-3-8 Point 0-6-14 Tapered Start 0-8-13 End 7-3-8 Part. Uniform 1-3-6 to 7-3-8 Point 1-11-6 Point 3-3-6 Point 4-2-3 Point 4-7-6 Point 5-11-6 Point 7-3-6	Bearing Length 0-5-8 Point 0-3-2 Bearing Length 0-5-8 Point 0-3-2 Bearing Length 0-5-8 Point 0-5-8 Part. Uniform 0-5-14 to 7-3-8 Point 0-6-14 Bearing Length 0-3-8 Point 0-6-14 Tapered Start 0-8-13 End 7-3-8 Part. Uniform 1-3-6 to 7-3-8 Point 1-11-6 Point 3-3-6 Point 4-2-3 Point 4-7-6 Point 5-11-6 Point 7-3-6	Bearing Length 0-5-8 Point 0-3-2 Top Bearing Length 0-5-8 Top Point 0-3-2 Top Bearing Length 0-5-8 Top Point 0-5-8 Top Bearing Length 0-5-8 Top Point 0-6-14 Top Bearing Length 0-3-8 Top Point 0-6-14 Near Face Tapered Start 0-8-13 Top End 7-3-8 Top Part. Uniform 1-3-6 to 7-3-8 Top Point 1-11-6 Near Face Point 3-3-6 Near Face Point 4-2-3 Near Face Point 4-7-6 Near Face Point 5-11-6 Near Face Point 7-3-6 Near Face	Bearing Length	Bearing Length 0-5-8 Point 0-3-2 Top 14 lb 37 lb Bearing Length 0-5-8	Bearing Length 0-5-8 Point 0-3-2 Top 14 lb 37 lb 0 lb Bearing Length 0-5-8 Top 0 lb 1 lb 0 lb Bearing Length 0-5-8 Top 0 lb 0 lb 0 lb Bearing Length 0-5-8 Top 66 PLF 0 PLF 0 PLF Point 0-5-8 Top 66 PLF 0 PLF 0 PLF Point 0-5-8 Top 66 PLF 0 PLF 0 PLF Point 0-5-8 Top 66 PLF 0 PLF 0 PLF Point 0-6-14 Top 555 lb 1348 lb 0 lb Bearing Length 0-3-8 Top 555 lb 1348 lb 0 lb Bearing Length 0-3-8 Point 0-6-14 Near Face 471 lb 1150 lb 0 lb Bearing Length 0-3-8 Point 1150 lb 0 lb 0 lb Tapered Start 0-6-14 Near Face 471 lb 1150 lb	Bearing Length 0-5-8 Point 0-3-2 Top 14 lb 37 lb 0 lb 0 lb Bearing Length 0-5-8 Top 0 lb 1 lb 0 lb 0 lb Point 0-3-2 Top 11 lb 0 lb 0 lb 0 lb Bearing Length 0-5-8 Top 11 lb 0 lb 0 lb 0 lb Bearing Length 0-5-8 Top 66 PLF 0 PLF 0 PLF 0 PLF Point 0-5-14 to 7-3-8 Top 66 PLF 0 PLF 0 PLF 0 PLF Point 0-6-14 Top 555 lb 1348 lb 0 lb 0 lb Bearing Length 0-3-8 O-8-13 Top 555 lb 1150 lb 0 lb 0 lb Bearing Length 0-8-13 Top 2 PLF 4 PLF 0 PLF 0 PLF End 7-3-8 Top 2 PLF 4 PLF 0 PLF 0 PLF End 7-3-8 Top 53 PLF 141 PLF </td

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



JUNE 29, 2023

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. IVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products

Manufacturer Info

1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 4 of 29

TRUE COPY OF PERMIT PLANS

Client: **GREENPARK** ZADORRA ESTATES Project:

> **ZADORRA ESTATES** OSHAWA,ON

Date: 6/27/2023 WC Input by:

Job Name: RIVER 2-2 STD

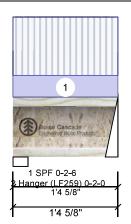
Project #

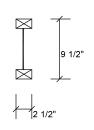
9.500" - PASSED

Address:



Level: Ground Floor





M	em	be	r	nt	or	m	atı	Ю	r

Type:	Girder	Application:	Floor (Residential)
Plies:	1	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	42	16	0	0
2	Vertical	40	15	0	0

Analysis Results

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	19 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Unbraced	19 ft-lb	8 1/2"	4095 ft-lb	0.005 (0%)	1.25D+1.5L	L
Shear	67 l b	1 5/8"	1830 lb	0.037 (4%)	1.25D+1.5L	L
Perm Defl in.	0.000 (L/189523)	8 1/2"	0.038 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/71071)	8 1/2"	0.038 (L/360)	0.005 (1%)	L	L
TL Defl inch	0.000 (L/51688)	8 1/2"	0.057 (L/240)	0.005 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	5%	20 / 63	83	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	5%	19 / 61	80	L	1.25D+1.5L

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: SPF, Thickness: 2 1/2"

15 PSF

- 4 Girders are designed to be supported on the bottom edge only.
- 5 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 6 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



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

ID	Load Type	Location	i rib vviatn	Side	Dead	Live	Snow	vvina	Comments
1	Tie-In	0-0-0 to 1-4-10	1-5-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

- Handling & Installation

 1. Loist flanges must not be cut or drilled

 2. Refer to latest copy of the Loist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-thy fastening details and handling/erection details

 3. Damaged Loists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

 The:--

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787





Page 5 of 29

OF PERMIT PLANS

Client: **GREENPARK** ZADORRA ESTATES Project:

Date: Input by:

Job Name: RIVER 2-2 STD **ZADORRA ESTATES** OSHAWA, ON

Project #

9.500" - PASSED

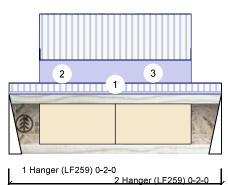
Address:



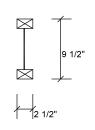
Level: Ground Floor

6/27/2023

W C



Hanger (LF259) 0-2'9 5/8' 2'9 5/8'



Member Information Type:

Application: Floor (Residential) Plies: 1 Design Method: LSD Moisture Condition: Dry Building Code: **NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF 15 PSF Dead:

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	266	132	0	0
2	Vertical	266	132	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	429 ft-lb	1'4 13/16"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Unbraced	429 ft-lb	1'4 13/16"	4095 ft-lb	0.105 (10%)	1.25D+1.5L	L
Shear	557 lb	2'8 3/8"	1830 l b	0.304 (30%)	1.25D+1.5L	L
Perm Defl in.	0.003 (L/12336)	1'4 7/8"	0.087 (L/360)	0.029 (3%)	D	Uniform
LL Defl inch	0.005 (L/6145)	1'4 7/8"	0.087 (L/360)	0.059 (6%)	L	L
TL Defl inch	0.008 (L/4102)	1'4 7/8"	0.130 (L/240)	0.059 (6%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.000"	Vert	35%	165 / 398	563	L	1.25D+1.5L
2 - Hanger	2.000"	Vert	36%	166 / 399	565	L	1.25D+1.5L

Design Notes

- Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: SPF, Thickness: 2 1/2"
- 4 Right Header: SPF, Thickness: 2 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 7 If sheathing is not attached to the bottom flange, bottom flange must be laterally braced at maximum 2' o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 2-9-10	0-10-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 2-9-10		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
3	Part. Uniform	0-4-13 to 2-4-13		Near Face	108 PLF	216 PLF	0 PLF	0 PLF	

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

- Handling & Installation
- Handling & Installation

 1. Noist flanges must not be cut or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length= 3.5 inches
 For flat roofs provide proper drainage to prevent

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** ZADORRA ESTATES Project: Address: **ZADORRA ESTATES**

OSHAWA,ON

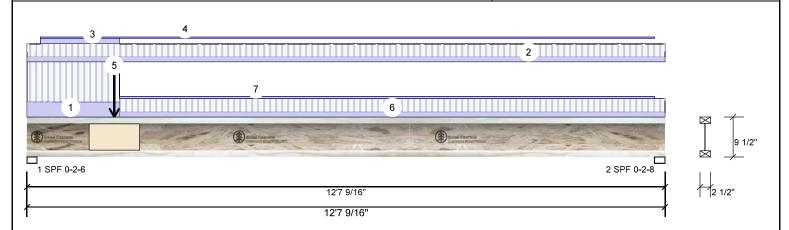
Date: 6/27/2023 Input by: W C

Job Name: RIVER 2-2 STD

Project #

9.500" - PASSED





Member Info	mation			Unfa	actored Rea	actions U	INP	ATTERNED II	(Upli	ift)	
Type:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	re	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	55	53	273		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	29	92	145		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	rings and F	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.375"	Vert	71%	341 / 829	1170	L	1.25D+1.5L
				2 -	SPF 2.500"	Vert	37%	181 / 438	619	L	1.25D+1.5L

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	2171 ft-lb	5'4 1/16"	4095 ft-lb	0.530 (53%)	1.25D+1.5L	L
Unbraced	2171 ft-lb	5'4 1/16"	4095 ft-lb	0.530 (53%)	1.25D+1.5L	L
Shear	1149 lb	1 5/8"	1830 l b	0.628 (63%)	1.25D+1.5L	L
Perm Defl in.	0.088 (L/1681)	6' 5/16"	0.412 (L/360)	0.214 (21%)	D	Uniform
LL Defl inch	0.177 (L/839)	6' 5/16"	0.412 (L/360)	0.429 (43%)	L	L
TL Defl inch	0.265 (L/560)	6' 5/16"	0.617 (L/240)	0.429 (43%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 10'10 13/16" o.c.



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

4 Bottom lange must be laterally braced at a maximum of 10 10/10 0.c.										
	I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 1-10-0	1-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Tie-In	0-0-0 to 12-7-9	0-5-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	3	Part. Uniform	0-3-3 to 1-10-0		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
	4	Part. Uniform	0-3-3 to 12-5-1		Тор	2 PLF	0 PLF	0 PLF	0 PLF	
	5	Point	1-8-12		Far Face	132 l b	266 lb	0 l b	0 lb	F2
	6	Tie-In	1-10-0 to 12-7-9	0-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	7	Part. Uniform	1-10-0 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive
- Handling & Installation
- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA, ON

Date: 6/27/2023

Input by: W C Job Name: RIVER 2-2 STD

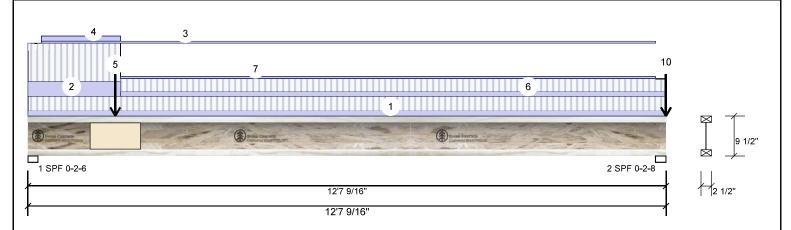
Project #

OF PERMIT PLANS Nov23 2023

9.500" - PASSED

Address:





Member Infor	rmation			Unfa	actored Rea	actions U	NP/	ATTERNED II	b (Up l i	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Э	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	569	9	285		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	320	6	166		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bear	ings and F	actored R	lead	ctions			
Dead:	15 PSF			Bea	ring Length	Dir. C	ар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - 3	SPF 2.375"	Vert 7	73%	356 / 854	1210	L	1.25D+1.5L
				2 - :	SPF 2.500"	Vert 4	12%	207 / 489	696	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2288 ft-lb	5'4 7/8"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Unbraced	2288 ft-lb	5'4 7/8"	4095 ft-lb	0.559 (56%)	1.25D+1.5L	L
Shear	1188 lb	1 5/8"	1830 lb	0.649 (65%)	1.25D+1.5L	L
Perm Defl in.	0.094 (L/1569)	6' 9/16"	0.412 (L/360)	0.229 (23%)	D	Uniform
LL Defl inch	0.185 (L/802)	6' 1/2"	0.412 (L/360)	0.449 (45%)	L	L
TL Defl inch	0.279 (L/531)	6' 1/2"	0.617 (L/240)	0.452 (45%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 10'10 13/16" o.c.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-7-9	0-6-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 1-10-0	1-6-1	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 1-10-0		Тор	8 PLF	0 PLF	0 PLF	0 PLF	
5	Point	1-8-12		Near Face	132 l b	266 l b	0 l b	0 lb	F2
6	Tie-In	1-10-0 to 12-7-9	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	1-10-0 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
Continued on pa	age 2								

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Notes

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

- Handling & Installation
- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3,5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Page 8 of 29

CORPORATION OF THE CITY OF OSHAWA OF PERMIT PLANS Nov23 2023

Continued from page 1

Client: **GREENPARK** Project:

ZADORRA ESTATES Address: **ZADORRA ESTATES** OSHAWA,ON

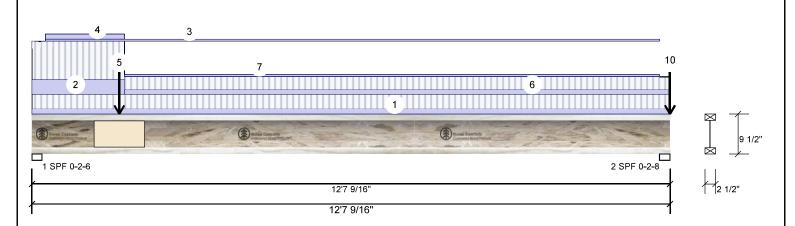
Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

Project #

9.500" - PASSED





Continued from pa	age i								
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
8	Point	12-7-9		Тор	3 lb	9 l b	0 lb	0 l b	J4
	Bearing Length	0-1-8							
9	Point	12-7-9		Тор	3 l b	9 l b	0 lb	0 l b	J4
	Bearing Length	0-1-8							
10	Point	12-7-9		Тор	3 l b	0 l b	0 lb	0 l b	Wall Self Weight
	Bearing Length	0-1-8							



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

Notes

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be out or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** ZADORRA ESTATES Project:

Date: 6/27/2023 Input by: W C

Job Name: RIVER 2-2 STD **ZADORRA ESTATES**

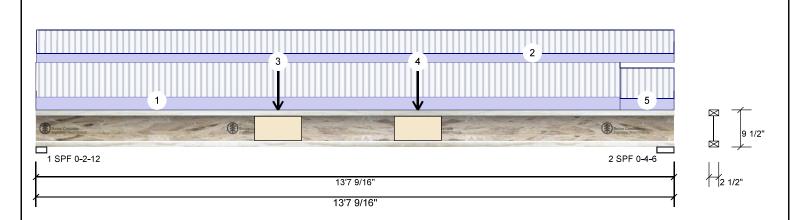
OSHAWA,ON

Project #

9.500" - PASSED

Address:





Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Liv	e	Dead		Snow	Wind	
Plies:	1	Design Method:	LSD	1	Vertical	38	8	146		0	0	
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	39	1	146		0	0	
Deflection LL:	360		OBC 2012(2020 Update)									
Deflection TL:	240	Load Sharing:	No									
Importance:	Normal - II	Deck:	Not Checked									
General Load		Vibration:	Not Checked									
Floor Live:	40 PSF			Bear	ings and F	actored F	Rea	ctions				
Dead:	15 PSF			Bea	ring Length	Dir. C	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.	
				1 - 3	SPF 2.767"	Vert -	44%	182 / 583	765	L	1.25D+1.5L	
				2 - 3	SPF 4.375"	Vert -	42%	183 / 586	769	L	1.25D+1.5L	

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Unbraced	2598 ft-lb	6'9 1/16"	4095 ft-lb	0.635 (63%)	1.25D+1.5L	L
Shear	748 l b	2"	1830 l b	0.409 (41%)	1.25D+1.5L	L
Perm Defl in.	0.093 (L/1691)	6'8 15/16"	0.439 (L/360)	0.213 (21%)	D	Uniform
LL Defl inch	0.249 (L/634)	6'8 15/16"	0.439 (L/360)	0.568 (57%)	L	L
TL Defl inch	0.342 (L/461)	6'8 15/16"	0.658 (L/240)	0.520 (52%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 5'5 11/16" o.c.



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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-5-11	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-2 to 13-7-9	0-6-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	5-2-1		Near Face	15 l b	40 lb	0 l b	0 lb	F1
4	Point	8-1-14		Near Face	15 l b	40 l b	0 l b	0 lb	F1
5	Tie-In	12-5-11 to 13-7-9	0-8-2	Тор	15 PSF	40 PSF	0 PSF	0 PSF	

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be cut or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA, ON

Input by: W C

Job Name: RIVER 2-2 STD

6/27/2023

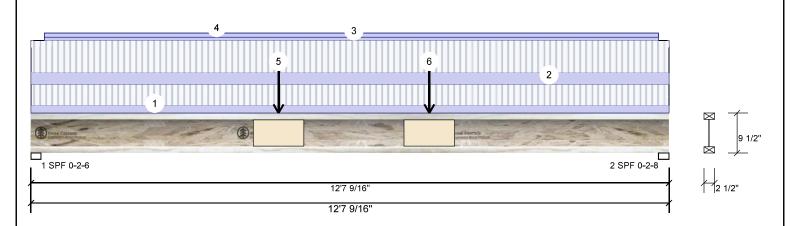
Project #

Date:

9.500" - PASSED

Address:





Member Inforn	nation			Unfactored Reactions UNPATTERNED lb (Uplift)								
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead	Snow	Wind		
Plies:	1	Design Method:	LSD	1	Vertical	3	60	182	0	0		
Moisture Condition:	Dry	Building Code:	NBCC 2015	2	Vertical	3	61	183	0	0		
Deflection LL:	360		OBC 2012(2020 Update)									
Deflection TL:	240	Load Sharing:	No									
Importance:	Normal - II	Deck:	Not Checked									
General Load		Vibration:	Not Checked									
Floor Live:	40 PSF			Bear	rings and F	actored	Rea	ctions				
Dead:	15 PSF			Bea	aring Length	Dir.	Сар.	React D/L lb	Total Ld. Case	Ld. Comb.		
				1 -	SPF 2.375"	Vert	46%	228 / 539	767 L	1.25D+1.5L		
				2 -	SPF 2.500"	Vert	46%	229 / 542	771 L	1.25D+1.5L		

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2469 ft-lb	6'3 9/16"	4095 ft-lb	0.603 (60%)	1.25D+1.5L	L
Unbraced	2469 ft-lb	6'3 9/16"	4095 ft-lb	0.603 (60%)	1.25D+1.5L	L
Shear	756 l b	12'5 13/16"	1830 lb	0.413 (41%)	1.25D+1.5L	L
Perm Defl in	0.099 (L/1491)	6'3 3/4"	0.412 (L/360)	0.241 (24%)	D	Uniform
LL Defl inch	0.195 (L/762)	6'3 3/4"	0.412 (L/360)	0.473 (47%)	L	L
TL Defl inch	0.294 (L/504)	6'3 3/4"	0.617 (L/240)	0.476 (48%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at a maximum of 4'10 13/16" o.c.



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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-7-9	0-6-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-9-3	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Тор	4 PLF	0 PLF	0 PLF	0 PLF	
5	Point	4-10-13		Near Face	20 lb	40 l b	0 l b	0 lb	F1
6	Point	7-10-10		Near Face	20 lb	40 l b	0 l b	0 lb	F1

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES**

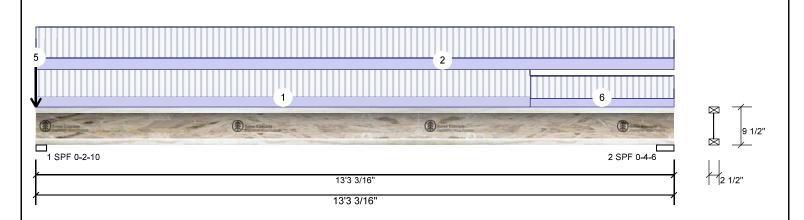
OSHAWA,ON

Date: 6/27/2023 Input by: WC Job Name: RIVER 2-2 STD

Project #

9.500" - PASSED





Member Infor	mation			Unf	actored Rea	actions l	JNP	ATTERNED II	b (Upli	ft)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Li	ve	Dead		Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	3	44	131		0	0
Moisture Condition	n: Dry	Building Code:	NBCC 2015	2	Vertical	3	24	122		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Bea	rings and F	actored	Rea	ctions			
Dead:	15 PSF			Bea	aring Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 -	SPF 2.625"	Vert	40%	164 / 516	680	L	1.25D+1.5L
				2 -	SPF 4.375"	Vert	35%	152 / 487	639	L	1.25D+1.5L

Analysis Results

Ana l ysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1999 ft-lb	6'6 1/2"	4095 ft-lb	0.488 (49%)	1.25D+1.5L	L
Unbraced	1999 ft-lb	6'6 1/2"	4095 ft-lb	0.488 (49%)	1.25D+1.5L	L
Shear	626 l b	1 7/8"	1830 l b	0.342 (34%)	1.25D+1.5L	L
Perm Defl in.	0.069 (L/2236)	6'6 5/8"	0.427 (L/360)	0.161 (16%)	D	Uniform
LL Defl inch	0.183 (L/838)	6'6 5/8"	0.427 (L/360)	0.429 (43%)	L	L
TL Defl inch	0.252 (L/610)	6'6 5/8"	0.640 (L/240)	0.394 (39%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o.c.
- 4 Bottom flange must be laterally braced at bearings



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

4 Bottom nange	Bottom flange must be laterally braced at bearings.						-			
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments	
1	Tie-In	0-0-0 to 10-3-5	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
2	Tie-In	0-0-0 to 13-3-3	0-8-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF		
3	Point	0-0-0		Тор	3 lb	9 lb	0 lb	0 l b	J4	
	Bearing Length	0-1-8								
4	Point	0-0-0		Тор	3 l b	9 lb	0 lb	0 l b	J4	
	Bearing Length	0-1-8								
5	Point	0-0-0		Тор	3 l b	0 lb	0 l b	0 l b	Wall Self Weight	
Continued on page 2										

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive
- Handling & Installation
- Handling & Installation

 1. Noist flanges must not be cut or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA,ON

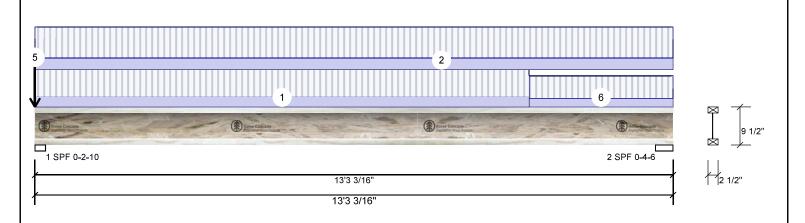
Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

Project #

9.500" - PASSED

Level: Ground Floor



..Continued from page 1

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-1-8							
6	Tie-In	10-3-5 to 13-3-3	0-5-14	Тор	15 PSF	40 PSF	0 PSF	0 PSF	



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

Notes

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Julist flanges must not be out or drilled

 2. Refer to latest copy of the Juoist product information details for framing details, stifferer tables, web hole chart, bridging details, multi-ray fastening details and handling/erection details

 3. Damaged Juoists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702

(800) 232-0788 www.bc.com CCMC: 12787

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** ZADORRA ESTATES Project:

ZADORRA ESTATES

OSHAWA, ON

Date: 6/27/2023 Input by: W C

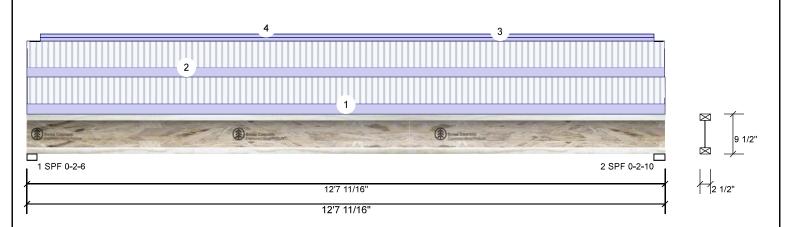
Job Name: RIVER 2-2 STD

Project #

9.500" - PASSED

Address:





Member Inform	mation			Unfa	actored Rea	ctions UNP	ATTERNED I	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction	Live	Dead	Snow	Wind
Plies:	1	Design Method:	LSD	1	Vertical	288	144	0	0
Moisture Condition	ı: Dry	Building Code:	NBCC 2015	2	Vertical	289	145	0	0
Deflection LL:	360		OBC 2012(2020 Update)						
Deflection TL:	240	Load Sharing:	No						
Importance:	Normal - II	Deck:	Not Checked						
General Load		Vibration:	Not Checked						
Floor Live:	40 PSF			Bear	ings and Fa	actored Rea	ctions		
Dead:	15 PSF			Bea	ring Length	Dir. Cap.	React D/L lb	Total Ld. Case	Ld. Comb.
				1 - 9	SPF 2.375"	Vert 37%	180 / 432	612 L	1.25D+1.5L
Analosia Bassile				2 - 9	SPF 2.625"	Vert 36%	181 / 433	614 L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1856 ft-lb	6'3 3/4"	4095 ft-lb	0.453 (45%)	1.25D+1.5L	L
Unbraced	1856 ft-lb	6'3 3/4"	4095 ft-lb	0.453 (45%)	1.25D+1.5L	L
Shear	601 l b	12'5 13/16"	1830 l b	0.328 (33%)	1.25D+1.5L	L
Perm Defl in.	0.075 (L/1986)	6'3 3/4"	0.412 (L/360)	0.181 (18%)	D	Uniform
LL Defl inch	0.147 (L/1006)	6'3 3/4"	0.412 (L/360)	0.358 (36%)	L	L
TL Defl inch	0.222 (L/668)	6'3 3/4"	0.618 (L/240)	0.359 (36%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 If sheathing is not attached to the top flange, top flange must be laterally braced at maximum 2' o c
- 4 Bottom flange must be laterally braced at bearings.



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

+ Dottom nange	4 Bottom hange must be laterally braced at bearings.								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 12-7-11	0-6-15	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Tie-In	0-0-0 to 12-7-9	0-6-12	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	
4	Part. Uniform	0-3-3 to 12-5-1		Тор	3 PLF	0 PLF	0 PLF	0 PLF	

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 IJoist not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. Noist flanges must not be out or drilled

 2. Refer to latest copy of the Jioist product information details for framing details, stiffener tables, web hole chart, bridging details, multi-rjly fastening details and handling/erection details

 3. Damaged Jioists must not be used

 4. Design assumes top flange to be laterally restrained by attached sheathing or as specified in engineering notes.

Provide lateral support at bearing points to avoid lateral displacement and rotation
 Web stiffeners for point load as shown Minimum point load bearing length>= 3.5 inches
 For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St.

Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12787

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

Job Name: RIVER 2-2 STD

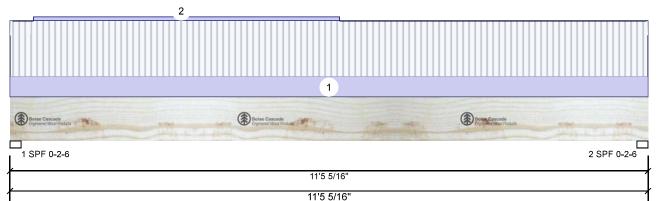
OSHAWA,ON

Project #

ca Lam LVL 2.1E 3100 SP 1.750" X 9.500" - PA



eyel: Ground Floor



Member Information Unfactored Reactions UNPATTERNED Ib (Uplift) Application: Floor (Residential) Wind Type: Brg Direction Live Dead Snow Plies: 1 Design Method: LSD Vertical 83 62 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 83 60 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** 40 PSF Floor Live: 15 PSF Dead: Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 2.375" Vert 8% 78 / 125 203 L 1.25D+1.5L 2 - SPF 2.375" Vert 8% 75 / 125 200 L 1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	550 ft-lb	5'8 1/8"	11610 ft-lb	0.047 (5%)	1.25D+1.5L	L
Unbraced	550 ft-lb	5'8 1/8"	11610 ft-lb	0.047 (5%)	1.25D+1.5L	L
Shear	173 l b	11 7/8"	5287 lb	0.033 (3%)	1.25D+1.5L	L
Perm Defl in.	0.014 (L/9288)	5'8 7/16"	0.372 (L/360)	0.039 (4%)	D	Uniform
LL Defl inch	0.020 (L/6836)	5'8 11/16"	0.372 (L/360)	0.053 (5%)	L	L
TL Defl inch	0.034 (L/3938)	5'8 9/16"	0.559 (L/240)	0.061 (6%)	D+L	L



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Top must be continuously laterally braced.
- 4 Bottom must be laterally braced at bearings.

Self Weight

13	PROFESSIONAL	2
LICEN	I.MATIJEVIC 100528832	GINEER
13	OVINCE OF ONTR	

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

JUNE 29, 2023

ID Load Type Location Trib Width Side Dead Live Wind Comments Snow Tie-In 0-0-0 to 11-5-5 Тор 15 PSF 40 PSF 0 PSF 0 PSF 1 Part. Uniform 0-5-1 to 5-10-15 1 PLF 0 PLF 0 PLF 0 PLF 2 Тор

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

5 PLF

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 WС Input by:

Job Name: RIVER 2-2 STD

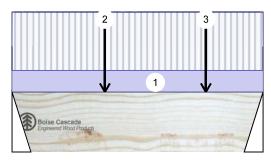
OSHAWA,ON

Project #

/crsa Lam LVL 2.1E 3100 SP

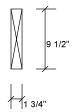
1.750" X 9.500" - PA

Level: Ground Floor



1 Hanger (HUS1.81/10) 0-3-0 2 Hange 3'3 3/4"

3'3 3/4'



Member Information

	Type:	Girder	Application:	Floor (Residential)
	Plies:	1	Design Method:	LSD
	Moisture Condition:	Dry	Building Code:	NBCC 2015
ı	Deflection LL:	360		OBC 2012(2020 Update)
	Deflection TL:	240	Load Sharing:	No
	Importance:	Normal - II	Deck:	Not Checked
	General Load		Vibration:	Not Checked
	Floor Live:	40 PSF		
	Dead:	15 PSF		

(HUS1.81/10) 0-3-

Unfactored Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	248	101	0	0
2	Vertical	296	119	0	0

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Unbraced	454 ft-lb	1'2 11/16"	11610 ft-lb	0.039 (4%)	1.25D+1.5L	L
Shear	509 lb	2'3 1/4"	5287 l b	0.096 (10%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/61373)	1'7 1/2"	0.098 (L/360)	0.006 (1%)	D	Uniform
LL Defl inch	0.001 (L/24410)	1'7 7/16"	0.098 (L/360)	0.015 (1%)	L	L
TL Defl inch	0.002 (L/17464)	1'7 7/16"	0.147 (L/240)	0.014 (1%)	D+L	L

Bearings and Factored Reactions

Beari	ng Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - Hang	3.000" er	Vert	9%	126 / 372	497	L	1.25D+1.5L
2 - Hang	3.000" er	Vert	10%	149 / 444	592	L	1.25D+1.5L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF, Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.



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

I D	Load Type	Location	Trib Width	Side	Dead			
1	Part. Uniform	0-0-0 to 3-3-12		Тор	15 PLF	4		

ı	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Part. Uniform	0-0-0 to 3-3-12		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
	2	Point	1-2-11		Far Face	84 l b	225 lb	0 lb	0 l b	J2
	3	Point	2-6-11		Far Face	70 l b	186 l b	0 lb	0 l b	J2
ı		Self Weight				5 PLF				

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** ZADORRA ESTATES Project: Address: **ZADORRA ESTATES**

Date: 6/27/2023 Input by: W C

Job Name: RIVER 2-2 STD

Project #

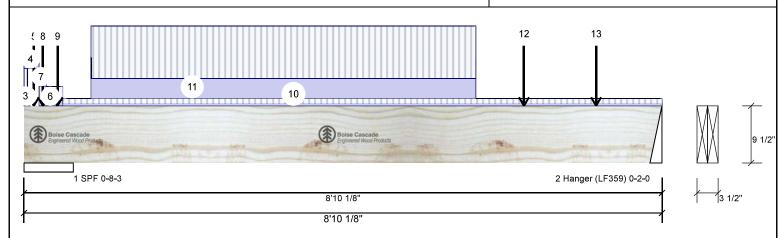
ESCHIEFWARESCEICHM LVL 2.1E 3100 SP

1.750" X 9.500"

OSHAWA,ON

RA&SED

Level: Ground Floor



Member Info	rmation			Unfa	ctored Rea	actions	UNP	ATTERNED II	b (Upl	ift)	
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Snow	Wind
Plies:	2	Design Method:	LSD	1	Vertical	2	2488	1033		0	0
Moisture Condition	on: Dry	Building Code:	NBCC 2015	2	Vertical	1	1150	471		0	0
Deflection LL:	360		OBC 2012(2020 Update)								
Deflection TL:	240	Load Sharing:	No								
Importance:	Normal - II	Deck:	Not Checked								
General Load		Vibration:	Not Checked								
Floor Live:	40 PSF			Beari	ings and F	actored	d Read	ctions			
Dead:	15 PSF			Bea	ring Length	Dir.	Сар.	React D/L Ib	Total	Ld. Case	Ld. Comb.
				1 - 5	SPF 8.196"	Vert	28%	1291 / 3731	5022	L	1.25D+1.5L
				2 -	2.000"	Vert	30%	588 / 1725	2313	L	1.25D+1.5L
Analysis Resu	Its			Han	ger						

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Unbraced	4837 ft-lb	4'8 3/16"	23220 ft-lb	0.208 (21%)	1.25D+1.5L	L
Shear	2512 l b	7'10 5/8"	10574 l b	0.238 (24%)	1.25D+1.5L	L
Perm Defl in.	0.023 (L/4324)	4'8 3/16"	0.271 (L/360)	0.083 (8%)	D	Uniform
LL Defl inch	0.055 (L/1764)	4'8 3/16"	0.271 (L/360)	0.204 (20%)	L	L
TL Defl inch	0.078 (L/1253)	4'8 3/16"	0.406 (L/240)	0.192 (19%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must have sheathing attached or be continuously braced.
- 9 Lateral slenderness ratio based on full section width.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
2	Part. Uniform	0-0-0 to 0-1-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 0-0-10		Тор	51 PLF	136 PLF	0 PLF	0 PLF	J4
4	Part. Uniform	0-0-0 to 0-2-8		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
5	Point	0-1-10		Тор	386 l b	942 lb	0 lb	0 lb	F8

Continued on page 2...

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- Handling & Installation

 1. UVI beams must not be cut or drilled

 2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

 3. Damaged Beams must not be used

 4. Design assumes top edge is laterally restrained

 5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

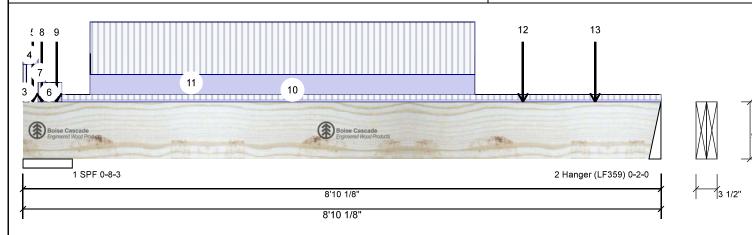
ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

OSHAWA,ON

Project #

F8CHIEFWARSOFFICAM LVL 2.1E 3100 SP 1.750" X 9.500" Level: Ground Floor 2-Ply -RASSED



Continued from p	age 1								
I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	Bearing Length	0-5-8							
6	Tie-In	0-2-8 to 0-6-7	1-9-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
7	Part. Uniform	0-2-8 to 0-3-11		Тор	82 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Point	0-3-2		Far Face	90 lb	241 lb	0 lb	0 l b	J4
9	Point	0-5-9		Near Face	66 lb	162 b	0 l b	0 l b	F6
10	Tie-In	0-6-7 to 8-10-2	0-8-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
11	Part. Uniform	0-11-2 to 6-3-2		Far Face	100 PLF	266 PLF	0 PLF	0 PLF	
12	Point	6-11-2		Far Face	116 l b	310 lb	0 lb	0 l b	J4
13	Point	7-11-2		Far Face	114 lb	305 lb	0 lb	0 lb	J4
	Self Weight				9 PI F				



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

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES

Date: 6/27/2023 W C Input by:

Job Name: RIVER 2-2 STD **ZADORRA ESTATES**

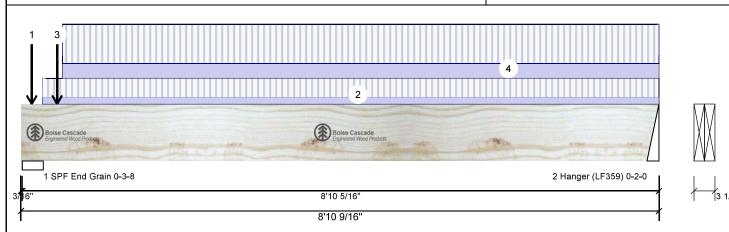
OSHAWA, ON Project #

<mark>་╚┉V%r%%⊈Lam U</mark>VL 2.1E 3100 SP

1.750" X 9.500"

- PASSED

Level: Ground Floor



Member Inform	nation		
Туре:	Girder	Application:	Floor (Residential)
Plies:	2	Design Method:	LSD
Moisture Condition:	Dry	Building Code:	NBCC 2015
Deflection LL:	360		OBC 2012(2020 Update)
Deflection TL:	240	Load Sharing:	No
Importance:	Normal - II	Deck:	Not Checked
General Load		Vibration:	Not Checked
Floor Live:	40 PSF		
Dead:	15 PSF		

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	1759	767	0	0
2	Vertical	129	90	0	0

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	699 ft-lb	4'1 3/8"	23220 ft-lb	0.030 (3%)	1.25D+1.5L	_L
Unbraced	699 ft-lb	4'1 3/8"	23220 ft-lb	0.030 (3%)	1.25D+1.5L	_L
Shear	796 lb	1'1 3/16"	10574 lb	0.075 (8%)	1.25D+1.5L	_L
Perm Defl in.	0.005 (L/19652)	4'4 3/4"	0.287 (L/360)	0.018 (2%)	D	Uniform
LL Defl inch	0.008 (L/13098)	4'4 3/16"	0.287 (L/360)	0.027 (3%)	L	LL
TL Defl inch	0.013 (L/7860)	4'4 7/16"	0.431 (L/240)	0.031 (3%)	D+L	LL
LL Cant	-0.000 (2L/7472)	Lt Cant	0.200 (2L/360)	0.000 (0%)	L	LL
TL Cant	-0.000 (2L/4554)	Lt Cant	0.300 (2L/240)	0.000 (0%)	D+L	LL

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.500"	Vert	28%	958 / 2638	3596	_L	1.25D+1.5L
2 - Hanger	2.000"	Vert	4%	113 / 194	307	_L	1.25D+1.5L



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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Right Header: DF, Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at a maximum of 8'4 1/2" o.c.
- 9 Lateral slenderness ratio based on full section width.

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and badings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Manufacturer Info

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

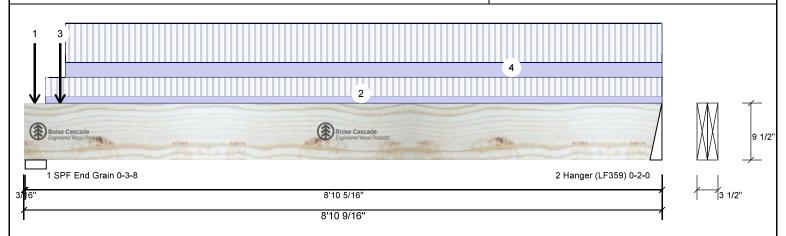
ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

OSHAWA,ON Project #

1.750" X 9.500" F8 B ™Vorsa Lam UVL 2.1E 3100 SP

Level: Ground Floor - PASSIFB



I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Point	0-1-13		Near Face	570 lb	1368 l b	0 lb	0 lb	F9
2	Tie-In	0-3-9 to 8-10-9	0-2-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
3	Point	0-6-0		Far Face	119 lb	296 l b	0 lb	0 lb	F6
4	Tie-In	0-6-14 to 8-10-9	0-5-6	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				



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

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Address:

OF PERMIT PLANS Nov 23 2023

Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

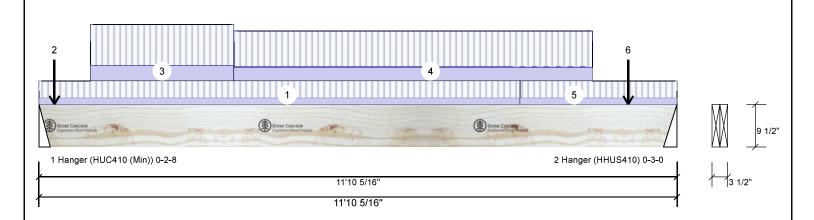
Job Name: RIVER 2-2 STD

OSHAWA, ON

Project #

[₿]

| VL 2.1E 3100 SP 1.750" X 9.500' Level: Ground Floor PASSIED



Member Inform	mation			Unfa	ctored Rea	ction	s UNP	ATTERNED I	b (Upl	ift)
Туре:	Girder	Application:	Floor (Residential)	Brg	Direction		Live	Dead		Sno
Plies:	2	Design Method:	LSD	1	Vertical		1368	570		
Moisture Condition	•	Building Code:	NBCC 2015 OBC 2012(2020 Update)	2	Vertical		1276	537		
Deflection LL:	360	Land Charine	, ,							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Beari	ngs and F	actore	d Read	ctions		
Dead:	15 PSF			Bear	ing Length	Dir.	Сар.	React D/L Ib	Total	Ld.
				1 -	2.500"	Vert	29%	712 / 2052	2764	L
				_ Hang	ger					
Analysis Result	ts			2 -	3.000"	Vert	23%	671 / 1914	2585	L

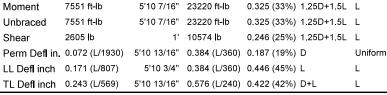
IBrg Direction Live Dead S	Brg	Direction	Live	Dead	Sno
----------------------------	-----	-----------	------	------	-----

RLB	Direction	Live	Dead	Snow	vvina
1	Vertical	1368	570	0	0
2	Vertical	1276	537	0	0

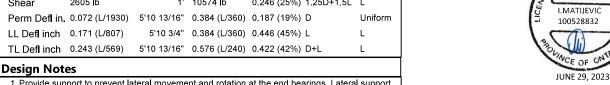
tored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	2.500"	Vert	29%	712 / 2052	2764	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	23%	671 / 1914	2585	L	1.25D+1.5L

PROFESSION



Location Allowed



Comb.

Case

Capacity

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.

Analysis

3 Left Header: DF. Thickness: 3 1/2"

Actual

- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Multiple plies must be fastened together as per manufacturer's details.
- 7 Top loads must be supported equally by all plies.
- 8 Top must be continuously laterally braced.
- 9 Bottom must have sheathing attached or be continuously braced.
- 10 Lateral slenderness ratio based on full section width.

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

ľ	ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
	1	Tie-In	0-0-0 to 8-11-4	1-9-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	2	Point	0-3-7		Far Face	57 l b	152 b	0 b	0 l b	J2
	3	Part. Uniform	0-11-7 to 3-7-7		Far Face	64 PLF	171 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Use hearn must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

Damaged Beams must not be used

Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES ZADORRA ESTATES Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

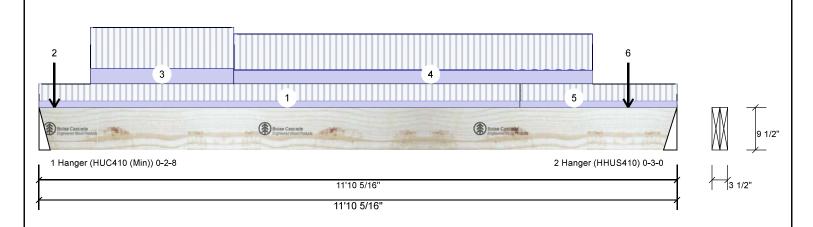
OSHAWA,ON Project #

FOTHER BUILDING SECULAM LVL 2.1E 3100 SP

1.750" X 9.500"

PASSED

Level: Ground Floor



Continued from page 1											
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments		
4	Part, Uniform	3-7-7 to 10-3-7		Far Face	57 PLF	151 PLF	0 PLF	0 PLF			
5	Tie-In	8-11-4 to 11-10-5	1-9-8	Тор	15 PSF	40 PSF	0 PSF	0 PSF			
6	Point	10-11-7		Far Face	68 l b	180 l b	0 lb	0 l b	J1		
	Self Weight				9 PLF						



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

Notes

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario



613-838-2775 / 905-642-4400



Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES**

OSHAWA,ON

Date: 6/27/2023 Input by: W C

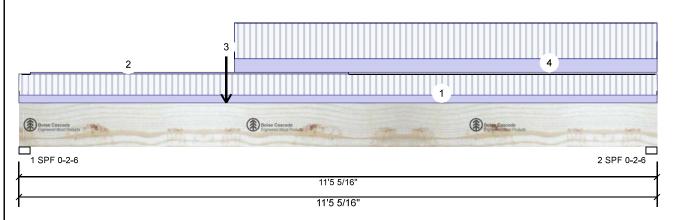
Job Name: RIVER 2-2 STD

Project #

1.750" X 9.500"

PASSED

Level: Ground Floor





Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 360 Deflection TL: 240 Importance: Normal - II General Load

40 PSF

15 PSF

Application: Floor (Residential)

Design Method: LSD **Building Code: NBCC 2015** OBC 2012(2020 Update)

Load Sharing: Deck: Not Checked

Vibration: Not Checked

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	990	469	0	0
2	Vertical	587	294	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. F	React D/L I b	Total	Ld. Case	Ld. Comb.
1 - SPF	2.375"	Vert	40%	587 / 1484	2071	L	1.25D+1.5L
2 - SPF	2.375"	Vert	24%	368 / 880	1248	L	1.25D+1.5L

Analysis Results

Floor Live:

Dead:

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	7161 ft-lb	3'8 5/8"	23220 ft-lb	0.308 (31%)	1.25D+1.5L	L
Unbraced	7161 ft-lb	3'8 5/8"	23220 ft-lb	0.308 (31%)	1.25D+1.5L	L
Shear	2043 lb	11 7/8"	10574 lb	0.193 (19%)	1.25D+1.5L	L
Perm Defl in.	0.057 (L/2347)	5'3 7/8"	0.372 (L/360)	0.153 (15%)	D	Uniform
LL Defl inch	0.122 (L/1100)	5'3 3/8"	0.372 (L/360)	0.327 (33%)	L	L
TL Defl inch	0.179 (L/749)	5'3 9/16"	0.559 (L/240)	0.320 (32%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must be laterally braced at a maximum of 7'8 3/4" o.c.
- 7 Lateral slenderness ratio based on full section width.



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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 11-5-5	0-3-11	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-2-7 to 5-10-15		Тор	1 PLF	0 PLF	0 PLF	0 PLF	
3	Point	3-8-10		Far Face	537 l b	1276 b	0 lb	0 l b	F9
4	Tie-In	3-10-6 to 11-5-5	0-6-5	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
	Self Weight				9 PLF				

Notes

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

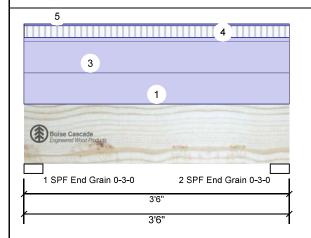
Job Name: RIVER 2-2 STD

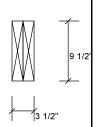
OSHAWA, ON Project #

Worsa¤⊵am Ll/L 2.1E 3100 SP

1.750" X 9.500"

Level: Ground Floor





Wind

Application: Floor (Residential) Type: Plies: 2 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF Dead: 15 PSF

Unfactored Reactions UNPATTERNED Ib (Uplift) Brg Direction Live

1	Vertical	33	213	0	0
2	Vertical	33	213	0	0

Analysis Results

Member Information

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Unbraced	220 ft-lb	1'9"	15093 ft-lb	0.015 (1%)	1.25D+1.5L	L
Shear	220 lb	2'5 1/2"	6873 lb	0.032 (3%)	1.25D+1.5L	L
Perm Defl in.	0.001 (L/68776)	1'9"	0.104 (L/360)	0.005 (1%)	D	Uniform
LL Defl inch	0.000 (L/439686)	1'9"	0.104 (L/360)	0.001 (0%)	L	L
TL Defl inch	0.001 (L/59473)	1'9"	0.156 (L/240)	0.004 (0%)	D+L	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L l b	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L
2 - SPF End Grain	3.000"	Vert	4%	266 / 50	316	L	1.25D+1.5L

I.MATIJEVIC 100528832 VCE OF O JUNE 29, 2023

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

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.
- 7 Lateral slenderness ratio based on full section width.

I D	Load Type	Location Trib Width	n Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-6-0	Тор	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 3-6-0	Near Face	51 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0	Near Face	7 PLF	19 PLF	0 PLF	0 PLF	
	End	3-6-0		7 PLF	19 PLF	0 PLF	0 PLF	

Continued on page 2...

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

andling & installation
LVL beams must not be cut or drilled
Refer to manufacturer's product information
regarding installation requirements, multi-ply
fastening details, beam strength values, and code
approvals
Damaged Beams must not be used
Design assumes top edge is laterally restrained
Provide lateral support at bearing points to avoid
lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products

1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

ZADORRA ESTATES Address:

Date: Input by:

ZADORRA ESTATES Job Name: RIVER 2-2 STD

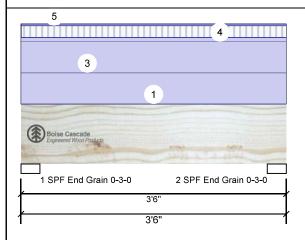
OSHAWA,ON Project #

FH7FBUVORSECHam LVL 2.1E 3100 SP 1.750" X 9.500"

Level: Ground Floor

6/27/2023

W C



.Continued from page 1

ID Location Trib Width Comments Load Type Side Live Snow Wind Dead 5 Part. Uniform 0-0-0 to 3-6-0 Near Face 3 PLF 0 PLF 0 PLF 0 PLF Rim Board Self Weight

> Self Weight 9 PLF



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info Boise Cascade Wood Products 1111 W. Jefferson St.

Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc.

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 1 of 2

OF PERMIT PLANS

Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES**

W C Input by:

Job Name: RIVER 2-2 DC

6/27/2023

OSHAWA, ON

Project #

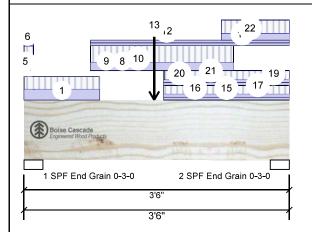
Date:

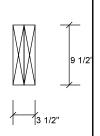
FH7-AULDWorsd-Lam LVL 2.1E 3100 SP

1.750" X 9.500"

PA66ED

Level: Ground Floor





Member Information

ſ	Туре:	Girder	Application:	Floor (Residential)	
l	Plies:	2	Design Method:	LSD	
l	Moisture Condition:	Dry	Building Code:	NBCC 2015	
l	Deflection LL:	360		OBC 2012(2020 Update)	
l	Deflection TL:	240	Load Sharing:	No	
l	Importance:	Normal - II	Deck:	Not Checked	
l	General Load		Vibration:	Not Checked	
l	Floor Live:	40 PSF			
l	Dead:	15 PSF			
l					

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	822	780	248	0
2	Vertical	1046	934	238	0

Analysis Results

	Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
	Moment	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
	Unbraced	2815 ft-lb	1'8 5/8"	23220 ft-lb	0.121 (12%)	1.25D+1.5L +S	L
	Shear	2501 lb	1' 1/2"	10574 lb	0.237 (24%)	1.25D+1.5L +S	L
	Perm Defl in.	0.003 (L/13010)	1'8 13/16"	0.104 (L/360)	0.028 (3%)	D	Uniform
	LL Defl inch	0.004 (L/10456)	1'8 7/8"	0.104 (L/360)	0.034 (3%)	L+0.5S	L
ĺ	TL Defl inch	0.006 (L/5797)	1'8 13/16"	0.156 (L/240)	0.041 (4%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L Ib	Total	Ld. Case	Ld. Comb.
1 - SPF End Grain	3.000"	Vert	22%	975 / 1480	2456	L	1.25D+1.5L +S
2 - SPF End Grain	3.000"	Vert	27%	1168 / 1807	2975	L	1.25D+1.5L +S



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 3'6" o.c.
- 6 Bottom must be laterally braced at a maximum of 3'6" o.c.
- 7 Lateral slenderness ratio based on full section width.



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Manufacturer Info

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Page 2 of 2

OF PERMIT PLANS Nov23 2023

Client: **GREENPARK** Project:

ZADORRA ESTATES Address:

Date: 6/27/2023 Input by: WC

ZADORRA ESTATES Job Name: RIVER 2-2 DC

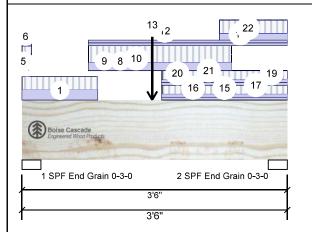
OSHAWA,ON Project #

FH7-AULDWorsd-Lam LVL 2.1E 3100 SP

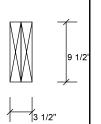
1.750" X 9.500"

PASSED

Level: Ground Floor







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

I D	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 1-0-0		Near Face	162 PLF	187 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-0-0 to 0-1-8		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
3	Part. Uniform	0-0-0 to 0-0-0		Near Face	82 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Tapered Start	0-0-0		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	0-1-8			0 PLF	1 PLF	0 PLF	0 PLF	
5	Part. Uniform	0-0-0 to 0-1-8		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
6	Part. Uniform	0-0-0 to 0-1-8		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
7	Part. Uniform	0-0-0 to 0-1-8		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
8	Part. Uniform	0-10-8 to 3-6-0		Near Face	3 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
9	Tapered Start	0-10-8		Near Face	0 PLF	1 PLF	0 PLF	0 PLF	
	End	3-6-0			0 PLF	1 PLF	0 PLF	0 PLF	
10	Part. Uniform	0-10-8 to 2-9-3		Near Face	123 PLF	248 PLF	0 PLF	0 PLF	J4
11	Part. Uniform	0-10-8 to 3-6-0		Near Face	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
12	Part. Uniform	0-10-8 to 3-6-0		Тор	41 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
13	Point	1-8-10		Тор	648 lb	576 lb	486 lb	0 lb	Header Column Header Column
	Bearing Length	0-3-8							
15	Part. Uniform	1-10-2 to 3-6-0		Тор	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
16	Part. Uniform	1-10-2 to 3-6-0		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
17	Part. Uniform	1-10-2 to 3-6-0		Тор	48 PLF	128 PLF	0 PLF	0 PLF	J4
19	Part. Uniform	1-10-2 to 3-6-0		Near Face	2 PLF	0 PLF	0 PLF	0 PLF	Rim Board Self Weight
20	Part. Uniform	1-10-2 to 3-6-0		Near Face	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
21	Part. Uniform	1-10-2 to 3-6-0		Near Face	48 PLF	128 PLF	0 PLF	0 PLF	J4
22	Part. Uniform	2-7-4 to 3-6-0		Near Face	102 PLF	198 PLF	0 PLF	0 PLF	J4
	Self Weight				9 PLF				

Notice Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

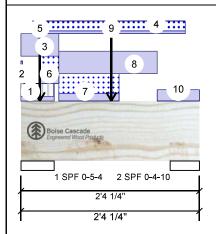
ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

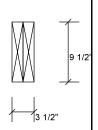
Job Name: RIVER 2-2 STD

OSHAWA,ON Project #

Warsa Lam LyL 2.1E 3100 SP

1.750" X 9.500"





Member Information

Type:	Girder	Application:	Floor (Residential)		
Plies:	2	Design Method:	LSD		
Moisture Condition:	Dry	Building Code:	NBCC 2015		
Deflection LL:	360		OBC 2012(2020 Update)		
Deflection TL:	240	Load Sharing:	No Not Checked		
Importance:	Normal - II	Deck:			
General Load		Vibration:	Not Checked		
Floor Live:	40 PSF				
Dead:	15 PSF				

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	315	486	473	0
2	Vertical	115	141	52	0
l					

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	265 ft-lb	1'2 5/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L +S	L
Unbraced	265 ft-lb	1'2 5/16"	23220 ft-lb	0.011 (1%)	1.25D+1.5L +S	L
Shear	238 lb	1'2 1/8"	9728 lb	0.024 (2%)	1.25D+1.5L	L
Perm Defl in	0.000 (L/224658)	1'2 5/16"	0.055 (L/360)	0.002 (0%)	D	Uniform
LL Defl inch	0.000 (L/164211)	1'2 5/16"	0.055 (L/360)	0.002 (0%)	L+0.5S	L
TL Defl inch	0.000 (L/94868)	1'2 5/16"	0.083 (L/240)	0.003 (0%)	D+L+0.5S	L

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap.	React D/L I b	Total	Ld. Case	Ld. Comb.					
1 - SPF	5.250"	Vert	14%	607 / 1024	1631	L	1.25D+1.5S +L					
2 - SPF	4.625"	Vert	4%	176 / 224	400	L	1.25D+1.5L +S					

Design Notes

- 1 Performed Secondary Bearing Check (CSA 086-14 6.5.7.3). Assumed point load size: beam width X 4.5.
- 2 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 3 Girders are designed to be supported on the bottom edge only.
- 4 Multiple plies must be fastened together as per manufacturer's details.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.
- 8 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400



This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding



Address:

OF PERMIT PLANS Nov23 2023

Client: **GREENPARK** Project:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 Input by: WC

Job Name: RIVER 2-2 STD

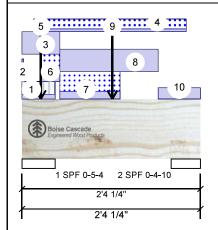
OSHAWA,ON

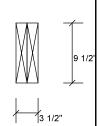
Project #

F12 F BWW S F Warm LV L 2.1E 3100 SP

1.750" X 9.500"

Level: Second Floo





ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Tie-In	0-0-0 to 0-5-4	1-1-10	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
2	Part. Uniform	0-0-0 to 0-0-4		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
3	Part. Uniform	0-0-0 to 0-6-0		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
4	Part. Uniform	0-1-14 to 2-2-0		Тор	10 PLF	0 PLF	35 PLF	0 PLF	
5	Point	0-3-0		Тор	294 lb	177 l b	381 l b	0 l b	F14
	Bearing Length	0-5-8							
6	Part. Uniform	0-3-0 to 0-6-0		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
7	Part. Uniform	0-6-0 to 1-3-8		Тор	27 PLF	0 PLF	70 PLF	0 PLF	
8	Part. Uniform	0-6-0 to 1-9-9		Тор	80 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
9	Point	1-2-5		Near Face	87 l b	233 lb	0 l b	0 l b	J2
10	Part. Uniform	1-9-9 to 2-4-4		Тор	40 PLF	0 PLF	0 PLF	0 PLF	Wall Self Weight
	Self Weight				9 PLF				



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

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. IVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

This design is valid until 4/17/2026

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise, ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

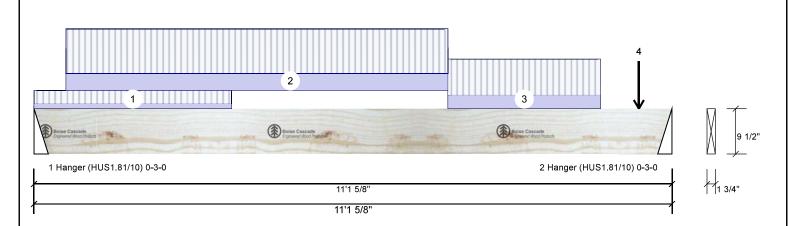
ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

Job Name: RIVER 2-2 STD

OSHAWA,ON Project #

Versa Lam LVL 2.1E 3100 SP

1.750" X 9.500"



Member Information Application: Floor (Residential) Type: Plies: 1 Design Method: LSD Moisture Condition: Dry **Building Code: NBCC 2015** OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Deck: Not Checked Importance: Normal - II Vibration: Not Checked General Load Floor Live: 40 PSF Dead: 15 PSF

Unfactored Reactions UNPATTERNED lb (Uplift)

Brg	Direction	Live	Dead	Snow	Wind
1	Vertical	782	320	0	0
2	Vertical	666	276	0	0

Bearings and Factored Reactions

Bearing	Length	Dir.	Cap. R	eact D/L I b	Total	Ld. Case	Ld. Comb.
1 - Hanger	3.000"	Vert	27%	399 / 1172	1572	L	1.25D+1.5L
2 - Hanger	3.000"	Vert	23%	345 / 999	1344	L	1.25D+1.5L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3972 ft-lb	5'3 9/16"	11610 ft-lb	0.342 (34%)	1.25D+1.5L	L
Unbraced	3972 ft-lb	5'3 9/16"	11610 ft-lb	0.342 (34%)	1.25D+1.5L	L
Shear	1455 lb	10'1 1/8"	5287 lb	0.275 (28%)	1.25D+1.5L	L
Perm Defl in.	0.065 (L/1997)	5'6"	0.359 (L/360)	0.180 (18%)	D	Uniform
LL Defl inch	0.158 (L/819)	5'5 15/16"	0.359 (L/360)	0.440 (44%)	L	L
TL Defl inch	0.222 (L/581)	5'5 15/16"	0.538 (L/240)	0.413 (41%)	D+L	L



- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fill all hanger nailing holes.
- 3 Left Header: DF. Thickness: 3 1/2"
- 4 Right Header: DF, Thickness: 3 1/2"
- 5 Girders are designed to be supported on the bottom edge only.
- 6 Top must be continuously laterally braced.
- 7 Bottom must have sheathing attached or be continuously braced.



JUNE 29, 2023

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

ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-0-0 to 3-5-7		Тор	15 PLF	40 PLF	0 PLF	0 PLF	
2	Part. Uniform	0-6-11 to 7-2-11		Far Face	51 PLF	136 PLF	0 PLF	0 PLF	
3	Part. Uniform	7-2-11 to 9-10-11		Far Face	41 PLF	109 PLF	0 PLF	0 PLF	
4	Point	10-6-11		Far Face	42 b	112 b	0 lb	0 lb	J5
	Self Weight				5 PLF				

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788 www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Nov 23 2023

Client: **GREENPARK** Project:

ZADORRA ESTATES Address: **ZADORRA ESTATES**

OSHAWA,ON

Date: 6/27/2023 W C Input by:

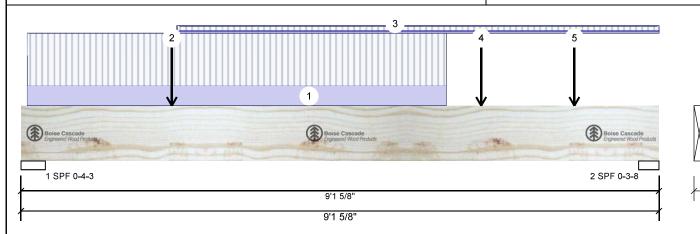
Job Name: RIVER 2-2 STD

Project #

""Vorsa"Lam UVL 2.1E 3100 SP

1.750" X 9.500'

PASSIED



Member Information Unfactored Reactions UNPATTERNED lb (Uplift) Application: Floor (Residential) Type: Brg Direction Live Dead Snow Wind Plies: 2 Design Method: LSD 1883 772 Vertical 0 1 0 Moisture Condition: Dry **Building Code: NBCC 2015** 2 Vertical 1348 555 n 0 OBC 2012(2020 Update) Deflection LL: 360 Load Sharing: Deflection TL: 240 Not Checked Deck: Importance: Normal - II Vibration: Not Checked General Load **Bearings and Factored Reactions** Floor Live: 40 PSF Dead: 15 PSF Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. 1 - SPF 4.188" Vert 42% 964 / 2825 3789 L 1.25D+1.5L

2 - SPF 3.500"

Vert

Analysis Results

Analysis	Actua l	Location	Allowed	Capacity	Comb.	Case
Moment	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Unbraced	6999 ft-lb	4' 1/2"	23220 ft-lb	0.301 (30%)	1.25D+1.5L	L
Shear	3234 lb	1'1 11/16"	10574 lb	0.306 (31%)	1.25D+1.5L	L
Perm Defl in.	0.037 (L/2785)	4'5 11/16"	0.287 (L/360)	0.129 (13%)	D	Uniform
LL Defl inch	0.091 (L/1137)	4'5 11/16"	0.287 (L/360)	0.317 (32%)	L	L
TL Defl inch	0.128 (L/808)	4'5 11/16"	0.431 (L/240)	0.297 (30%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be continuously laterally braced.
- 6 Bottom must have sheathing attached or be continuously braced.



36%

694 / 2022

2716 L

1.25D+1.5L

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

7 Lateral s	lenderness ratio based	on full section width.							
ID	Load Type	Location	Trib Width	Side	Dead	Live	Snow	Wind	Comments
1	Part. Uniform	0-1-1 to 6-1-1		Far Face	100 PLF	266 PLF	0 PLF	0 PLF	
2	Point	2-1-15		Near Face	320 lb	782 l b	0 lb	0 lb	F4
3	Tie-In	2-2-13 to 9-1-10	0-8-4	Тор	15 PSF	40 PSF	0 PSF	0 PSF	
4	Point	6-7-1		Far Face	116 l b	310 lb	0 lb	0 lb	J4
5	Point	7-11-1		Far Face	133 lb	354 lb	0 lb	0 lb	J4
	Self Weight				9 PLF				

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702 (800) 232-0788

www.bc.com CCMC: 12472

3228 Moodie Dr, Ottawa, Ontario 613-838-2775 / 905-642-4400





Client: **GREENPARK** Project:

Address:

ZADORRA ESTATES **ZADORRA ESTATES** Date: 6/27/2023 W C Input by:

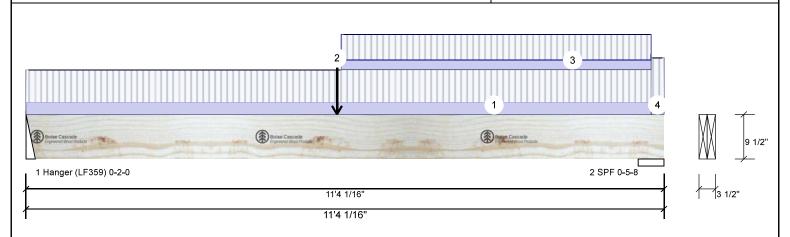
Job Name: RIVER 2-2 STD

OSHAWA, ON Project #

HEFWAPASOFFICAM LVL 2.1E 3100 SP

1.750" X 9.500"

RASSED



Member Inforn	nation			Unfac	tored Rea	ctions	UNPA	ATTERNED II	b (Uplift)	
Туре:	Girder	Application:	Floor (Residential)	Brg I	Direction	L	Live	Dead	Snow	Wind
Plies:	2	Design Method:	LSD	1 1	Vertical		453	235	0	0
Moisture Condition:	: Dry	Building Code:	NBCC 2015	2 \	Vertical		502	256	0	0
Deflection LL:	360		OBC 2012(2020 Update)							
Deflection TL:	240	Load Sharing:	No							
Importance:	Normal - II	Deck:	Not Checked							
General Load		Vibration:	Not Checked							
Floor Live:	40 PSF			Bearii	ngs and Fa	actorec	d Reac	tions		
Dead:	15 PSF			Beari	ing Length	Dir.	Cap.	React D/L Ib	Total Ld. Case	Ld. Comb.
				1 - Hang	2.000" Jer	Vert	13%	294 / 680	974 L	1.25D+1.5L
Analysis Result	s			2 - SF	PF 5.500"	Vert	9%	320 / 753	1073 L	1.25D+1.5L

L

Comb. Capacity 4549 ft-lb Moment 5'6 5/16" 23220 ft-lb 0.196 (20%) 1.25D+1.5L L Unbraced 4549 ft-lb 5'6 5/16" 23220 ft-lb 0.196 (20%) 1.25D+1.5L L 0.094 (9%) 1.25D+1.5L L 991 lb 10'1 1/16" 10574 lb Shear Perm Defl in. 0.036 (L/3647) 5'6 3/8" 0.361 (L/360) 0.099 (10%) D Uniform LL Defl inch 0.074 (L/1760) 5'6 3/8" 0.361 (L/360) 0.204 (20%) L L

Design Notes

1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.

5'6 3/8" 0.542 (L/240) 0.202 (20%) D+L

2 Fill all hanger nailing holes.

TL Defl inch 0.110 (L/1187)

- 3 Left Header: DF. Thickness: 3 1/2"
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Multiple plies must be fastened together as per manufacturer's details.
- 6 Top loads must be supported equally by all plies.
- 7 Top must be continuously laterally braced.
- 8 Bottom must be laterally braced at a maximum of 5'9 3/4" o.c.
- 9 Lateral slenderness ratio based on full section width.



JUNE 29, 2023

USED IN THE DESIGN OF THIS COMPONENT.

READ ALL NOTES ON THIS PAGE AND ON THE ENGINEERING NOTES: EWP-FLOORS, THE NOTE PAGE IS AN INTEGRAL PART OF THIS DRAWING AS IT CONTAINS SPECIFICATIONS AND CRITERIA

ID Load Type Location Trib Width Side Dead Live Snow Wind Comments 40 PSF 0-0-0 to 11-1-5 15 PSF 0 PSF 0 PSF 1 Tie-In 0-5-8 Top 2 Point 5-6-5 Far Face 276 lb 666 lb 0 lb 0 lb F4 3 Tie-In 5-7-3 to 11-1-5 0-4-6 Тор 15 PSF 40 PSF 0 PSF 0 PSF 40 PSF 0 PSF 15 PSF 0 PSF 11-1-5 to 11-4-1 0-7-0 Tie-In Top Self Weight 9 PLF

Notes

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

- LVL beams must not be cut or drilled
 Refer to manufacturer's product information regarding installation requirements, multi-pty fastening details, beam strength values, and code approvals
- Damaged Beams must not be used Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 4/17/2026

Manufacturer Info

Boise Cascade Wood Products 1111 W. Jefferson St. Boise. ID 83702

(800) 232-0788 www.bc.com CCMC: 12472

Kott Inc. 3228 Moodie Dr, Ottawa, Ontario

613-838-2775 / 905-642-4400



