

Engineering Notes: EWP-Floors



MHP 23028



PLEASE READ AND FOLLOW INSTRUCTIONS PRIOR TO INSTALLATION OF THE COMPONENT

RESPONSIBILITIES

THE RESPONSIBILITY OF THE UNDERSIGNED ENGINEER IS ONLY LIMITED TO THE CALCULATION OF THIS BUILDING COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THIS DRAWING.

THE RESPONSIBILITY OF THE UNDERSIGNED IS LIMITED TO THE VERIFICATION OF THE STRUCTURAL CAPACITY OF THE FLOOR JOISTS AND LVL BEAMS BASED ON PLACEMENT AS SHOWN ON THE LAYOUT. THE LOADS APPLIED ARE LIMITED TO THE GRAVITY EFFECTS OF THE SPECIFIED LOADS. THE STRUCTURAL INTEGRITY OF THE BUILDING AND THE EFFECT OF WIND, UPLIFT, SEISMIC, LATERAL OR OTHER FORCES, CALCULATION OF ADEQUATE SUPPORT AND ANCHORAGE OF COMPONENTS, AS WELL AS THE DIMENSIONS AND DESIGN LOADS USED TO CALCULATE COMPONENTS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER. FLOOR JOISTS AND OSB RIM BOARD ARE DESIGNED TO CARRY UNIFORMLY DISTRIBUTED LOADS ONLY. POINT LOADS SHOULD BE TRANSFERRED THROUGH THE FLOOR CAVITY WITH TRANSFER BLOCKS. STRUCTURAL ELEMENTS SUCH AS WALLS, POSTS, CONNECTORS, AND TRANSFER BLOCKS ARE THE RESPONSIBILITY OF THE OVERALL BUILDING DESIGNER.

THE UNDERSIGNED ENGINEER DISCLAIMS ANY RESPONSIBILITY FOR DAMAGES AS A RESULT OF BEING FURNISHED FAULTY OR INCORRECT INFORMATION, SPECIFICATIONS AND/OR DESIGNS.

COMPONENT DESIGN INFORMATION

1. THIS BUILDING COMPONENT IS CERTIFIED AS AN INDIVIDUAL COMPONENT FOR THE LOADS AND CONDITIONS SHOWN ON THE CALCULATION PAGE BASED ON INFORMATION PROVIDED BY KOTT DESIGN.
2. THE BUILDING COMPONENT USED IN CONSTRUCTION MUST BE THE SAME AS INDICATED ON THE DRAWINGS.
3. UNLESS NOTED OTHERWISE ON THE LAYOUT OR BEAM CALCULATION SHEET, MEMBERS CONSISTING OF MULTIPLE PLIES MUST BE CONNECTED AS PER THE DOCUMENT "MULTIPLE MEMBER CONNECTION DETAILS" SHOWN ON PAGE 2 OF THIS DOCUMENT.
4. PASS-THRU TRANSFER BLOCK FRAMING IS REQUIRED AT ALL POINT LOADS OVER BEARINGS.
5. IT IS ASSUMED THAT EACH LVL BEAM WHERE NOT SEATED IN A HANGER IS ATTACHED USING (4) FOUR 3-1/4" COMMON SPIRAL NAILS FOR UP TO 5.5" LONG BEARINGS AND USING (6) SIX 3-1/4" COMMON SPIRAL NAILS FOR BEARINGS EQUAL TO OR LONGER THAN 5.5", UNLESS INDICATED OTHERWISE.

CODE

THIS BUILDING COMPONENT IS DESIGNED IN ACCORDANCE WITH THE NATIONAL BUILDING CODE OF CANADA, THE ONTARIO BUILDING CODE, CCMC AND CANADIAN STANDARDS ASSOCIATION GUIDELINES.

HANDLING AND INSTALLATION

1. DO NOT DRILL ANY HOLE, CUT OR NOTCH A CERTIFIED BUILDING COMPONENT WITHOUT A WRITTEN PRE-AUTHORIZATION.
2. INSTALLATION AND ASSEMBLY OF FLOOR JOISTS AND LVL BEAMS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUFACTURER'S LITERATURE.



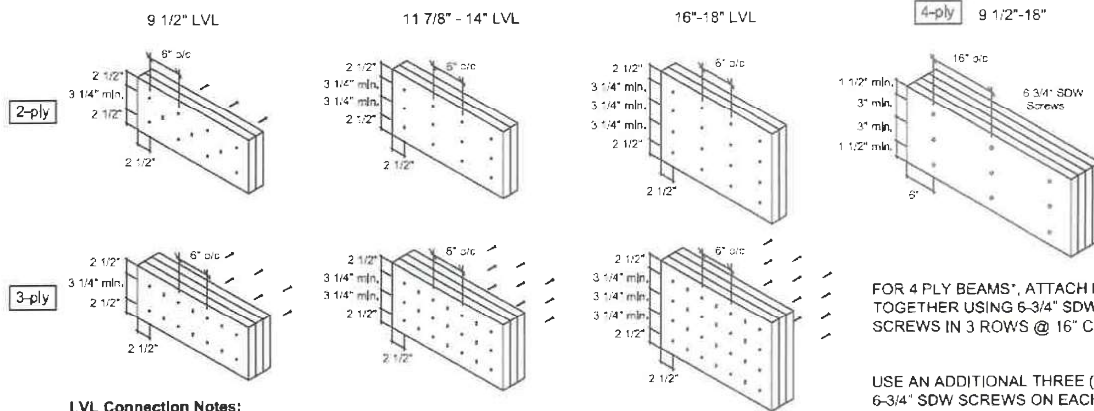
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Page 2 of 41

MULTIPLE MEMBER CONNECTIONS FOR BEAMS SHOWN ON KOTT LAYOUTS



MULTIPLE MEMBER CONNECTIONS FOR UNIFORMLY DISTRIBUTED TOP & SIDE LOADED LVL BEAMS SHOWN ON KOTT LAYOUTS



LVL Connection Notes:

- LVL ply width is 1-3/4"
- Nails to be 3 1/2" common wire nails.
- Nails to be located 2 1/2" min. from the top and bottom of the member. Start all nails 2 1/2" min. from ends.
- Minimum 3 1/4" spacing between rows.
- Number of rows and spacing as per details shown, unless noted otherwise.
- "X" represents nail driven from the opposite side.
- Head of all specified screws must be on the loaded side.

FOR 4 PLY BEAMS*, ATTACH PLYS TOGETHER USING 6-3/4" SDW SCREWS IN 3 ROWS @ 16" C/C.

USE AN ADDITIONAL THREE (3) 6-3/4" SDW SCREWS ON EACH SIDE (OF EACH FACE) AT POINT LOAD LOCATIONS @ 1/2 SPACING, WHERE APPLICABLE.

*UNLESS NOTED OTHERWISE ON LAYOUT OR CALCULATION SHEET OF BEAM IN THE FLOOR PACKAGE

FOR MULTIPLE MEMBER CONNECTION OF BOISE ALLJOISTS REFER TO THE BOISE CASCADE INSTALLATION GUIDE

Installation Guide



(Open your phone's camera and hover over this QR code to access it)

Last Revised January 13, 2023

MHP 23028

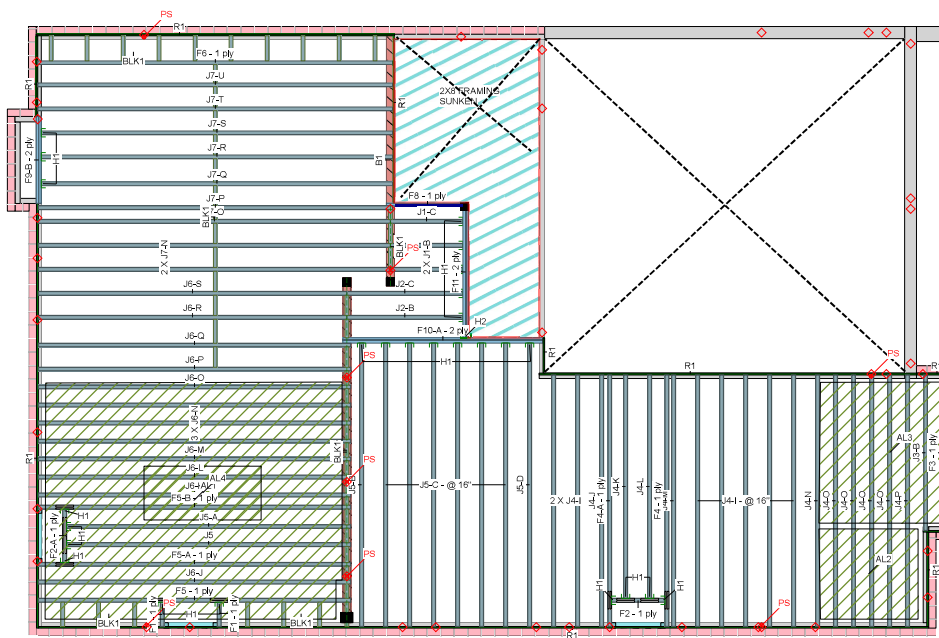
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Nov 15 2023

PER: *C. Morte*
CHIEF BUILDING OFFICIAL

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Page 3 of 41

Ground Floor



Ground Floor
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Pies	Pcs	Length
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	12-0-0
F11	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	8-0-0
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	6-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	1	6-0-0
FHS	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	4-0-0

J Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F5	AJS 140	2.5	11.875	1	20-0-0
F4	AJS 140	2.5	11.875	3	18-0-0
F3	AJS 140	2.5	11.875	2	14-0-0
F2	AJS 140	2.5	11.875	2	4-0-0
F1	AJS 140	2.5	11.875	2	2-0-0
J7	AJS 140	2.5	11.875	9	20-0-0
J6	AJS 140	2.5	11.875	12	18-0-0
J5	AJS 140	2.5	11.875	10	16-0-0
J4	AJS 140	2.5	11.875	17	14-0-0
J3	AJS 140	2.5	11.875	1	10-0-0
J2	AJS 140	2.5	11.875	2	6-0-0
J1	AJS 140	2.5	11.875	3	6-0-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	13	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2.5	11.875	Varies	Varies	59-0-0

Hanger

Label	Pcs	Description	fasteners	Supported Member
H1	25	LF3511	12 10x1 1/2	1 #8x1 1/4WS
H2	1	LF3511	12 104	2 #8x1 1/4WS

JOB INFORMATION

Builder GREENPARK
Project ZADORRA ESTATES OSHAWA, ON
Shipping RALPH MIRIGELLO
Sales Rep RALPH MIRIGELLO
Designer W.C.

Plotted July 10, 2023

Layout Name ROSE 2-3 STD

Job Path S:\CUSTOMERS\GREENPARK\ZADORRA ESTATES\MODELS\ROSE 2\ROSE 2-3\ROSE 2-3 STD.dwg

DESIGN CRITERIA

Ground Floor

Design Method LSD (Canada)

Bulking Code NBC 2015

OBCC 2012/2020 Update

Floor

Live 40

Dead 15

Deflection Joist

LL Span / 360

TL Span / 240

Deflection Flush Girder

LL Span / 360

TL Span / 240

Deflection Dropped Girder

LL Span / 360

TL Span / 240

Deflection Header

LL Span / 360

TL Span / 240

Decking

Thickness 3/4"

Fastener Nailed & Glued

CCMC References

Boise - 12472-R, 12787-R

LP - 12412-R, Roseburg - 13310-R

Forex - 14056-R

Kott Inc.

3228 Wood Dr. Ottawa

14 Anderson Blvd. Unbridge

Ontario

613-838-2775 /

905-642-4400

Legend

PS Point Load Support

Load from Above

Wall

Wall Opening

Norbord Rimboard Plus 1.125 X 11.875

AJS 140 11.875

Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875

1.75 X 9.5 (Dropped)

Installation Guide



(Open your phone's camera and
hover over this QR code to access it)

Hatch Area represents where
additional load has been applied.
(e.g. 5 psf for ceramic tile)

1. All blocking to be cut from 12' joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
10. Hangers and Fasteners to be installed as per manufacturer
11. Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.
12. Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load.
13. Confirmation of adequate support & anchorage of components is the responsibility of the building designer, suggested uplift connectors are as shown.
14. Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member

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Nov 15 2023
C. Morte
PER: CHIEF BUILDING OFFICIAL

Ground Floor

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Page 4 of 41

Legend

PS	Point Load Support
◊	Load from Above
▨	Wall
▧	Wall Opening
▩	Noribond Rimboard Plus 1,125 X 11,875
▪	AJS 140 11,875
▫	Versa-Lam LVL 2.1E 3100 SP 1,75 X 11,875
▬	1.75 X 9.5 (Dropped)

Ground Floor
LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Pcs	Length
F10	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	124-0
F11	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	84-0
F9	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	64-0
F8	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	1	64-0
FHS	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	44-0

Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F5	AJS 140	2,5	11,875	1	20-0
F6	AJS 140	2,5	11,875	1	18-0
F4	AJS 140	2,5	11,875	2	14-0
F3	AJS 140	2,5	11,875	1	10-0
F2	AJS 140	2,5	11,875	1	4-0
J7	AJS 140	2,5	11,875	9	20-0
J6	AJS 140	2,5	11,875	16	18-0
J5	AJS 140	2,5	11,875	8	16-0
J4	AJS 140	2,5	11,875	17	14-0
J3	AJS 140	2,5	11,875	1	10-0
J2	AJS 140	2,5	11,875	2	8-0
J1	AJS 140	2,5	11,875	3	6-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Noribond Rimboard Plus 1,125 X 11,875	1,125	11,875	13	124-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2,5	11,875	1	Varies	62-0

Hanger

Label	Pcs	Description	fasteners	fasteners
H1	20	LF2511	12 10x1 1/2	1 #8x1 1/4WS
H2	1	LF3511	12 10d	2 #8x1 1/4WS

JOB INFORMATION

Builder
GREENPARK

Project
ZADORRA ESTATES
OSHAWA, ON

Sales Rep
RALPH MIRIGELLO

Designer
W.C.

Plotted

July 10, 2023

Layout Name
ROSE 2-3 WOC

Job Path
8\CUSTOMERS\GREENPARK\ZADORRA ESTATES
MODELS\ROSE 2\ROSE 2-3W-ROSE 2-3WOC
ROSE 2-3 WOC.dwg

DESIGN CRITERIA

Ground Floor

Design Method
LSD (Canada)

Bulking Code
NBC 2015
CBC 2012 (2020 Update)

Floor

Loads

Live 40

Dead 15

Deflection Joist

LL Span / 360

TL Span / 240

Deflection Flush Girder

LL Span / 360

TL Span / 240

Deflection Dropped Girder

LL Span / 360

TL Span / 240

Deflection Header

LL Span / 360

TL Span / 240

Decking

Decking OSB

Thickness 3/4"

Fastener Nailed & Glued

CCMC References

Boise - 12472-R, 12787-R

LP - 12412-R, Roseburg - 13310-R

Forex - 14056-R

Kott Inc.

3228 Woodle Dr. Ottawa
14 Anderson Blvd. Uxbridge
Ontario

613-838-2775 /
905-642-4400



Installation Guide



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hover over this QR code to access it)

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(e.g. 5 psf for ceramic tile)

- All blocking to be cut from 12" joists
- 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
- Ends of joists to be laterally supported
- Packing of Steel beams and attachment by others
- Show and water closet flange locations are approximate only, consult architectural drawing for exact locations
- Beams identified as "B" are dropped and supplied by others
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- Load transfer blocks to be installed under all point loads
- Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
- Hangers and Fasteners to be installed as per manufacturer
- Framing shown on this layout may deviate from architectural drawings, Arch / Eng to review and approve the deviation prior to construction.
- Multi ply beams with side loading to have all fasteners installed with the head on the side of the applied load
- Confirmation of adequate support & anchorage of components is the responsibility of the building designer; suggested uplift connectors are as shown
- Where beam hangs on side of 3-ply member, it is recommended that the equivalent quantity and size of nails required for the hanger attachment also be installed on opposite side of the 3-ply member

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C. Morte
PER: CHIEF BUILDING OFFICIAL

Ground Floor

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Page 25 of 41

Legend

PS	Point Load Support
◊	Load from Above
▨	Wall
▩	Wall Opening
▧	Norbord Rimboard Plus 1,125 X 11,875
▦	AJS 140 11,875
▥	Versa-Lam LVL 2.1E 3100 SP 1,75 X 11,875
▤	1.75 X 9.5 (Dropped)

Ground Floor

LVL/LSL (Flush)

Label	Description	Width	Depth	Qty	Pies	Pcs	Length
F10	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	2	12-0-0
F11	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	2	6-0-0
F9	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	1	2	2	6-0-0
F8	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875			1	6-0-0
FH5	Versa-Lam LVL 2.1E 3100 SP	1,75	11,875	3	2	6	4-0-0

Joist (Flush)

Label	Description	Width	Depth	Pcs	Length
F5	AJS 140	2,5	11,875	1	20-0-0
F5	AJS 140	2,5	11,875	1	18-0-0
F4	AJS 140	2,5	11,875	2	14-0-0
F3	AJS 140	2,5	11,875	1	10-0-0
F2	AJS 140	2,5	11,875	1	4-0-0
F1	AJS 140	2,5	11,875	2	2-0-0
J7	AJS 140	2,5	11,875	9	20-0-0
J6	AJS 140	2,5	11,875	16	18-0-0
J5	AJS 140	2,5	11,875	8	16-0-0
J4	AJS 140	2,5	11,875	17	14-0-0
J3	AJS 140	2,5	11,875	1	10-0-0
J2	AJS 140	2,5	11,875	2	6-0-0
J1	AJS 140	2,5	11,875	3	6-0-0

Rim Board

Label	Description	Width	Depth	Pcs	Length
R1	Norbord Rimboard Plus 1,125 X 11,875	1,125	11,875	13	12-0-0

Blocking

Label	Description	Width	Depth	Qty	Pcs	Length
BLK1	AJS 140	2,5	11,875	1	Varies	59-0-0

Hanger

Label	Pcs	Description	Beam/Girder fasteners	Supported Member fasteners
H1	27	UF3511	12 10x1 1/2	1 #8x1 1/4 WS
H2	1	UF3511	12 104	2 #8x1 1/4 WS

JOB INFORMATION

Builder	GREENPARK
Project	ZADORRA ESTATES OSHAWA, ON
Sales Rep	RALPH MIRIGELLO
Designer	V.C.

Plotted

July 10, 2023
Layout Name
ROSE 2-3 DC
Job Path
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DESIGN CRITERIA

Design Method	LSD (Canada)
Bulking Code	NBCC 2015
	CBC 2012 (2020 Update)

Floor Loads

Live	40
Dead	15

Deflection Joist

LL Span /	360
TL Span /	240

Deflection Flush Girder

LL Span /	360
TL Span /	240

Deflection Dropped Girder

LL Span /	360
TL Span /	240

Deflection Header

LL Span /	360
TL Span /	240

Decking

Decking	OSB
Thickness	3/4"
Fastener	Nailed & Glued

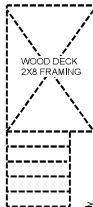
CCMC References

Boise - 12472-R	12787-R
LP - 12412-R	Roeburg - 13310-R
Forex - 14056-R	

Kott Inc.

3228 Wood Dr. Ottawa	
14 Anderson Blvd. Uxbridge	
Ontario	

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905-642-4400	



Installation Guide



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Hatch Area represents where
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(e.g. 5 psf for ceramic tile)

1. All blocking to be cut from 12' joists
2. 2' & 4' Lengths to be cut from 8' Length, 6' lengths to be cut from 12' Length
3. Ends of joists to be laterally supported
4. Packing of Steel beams and attachment by others
5. Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
6. Beams identified as "B" are dropped and supplied by others
7. Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
8. Load transfer blocks to be installed under all point loads
9. Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
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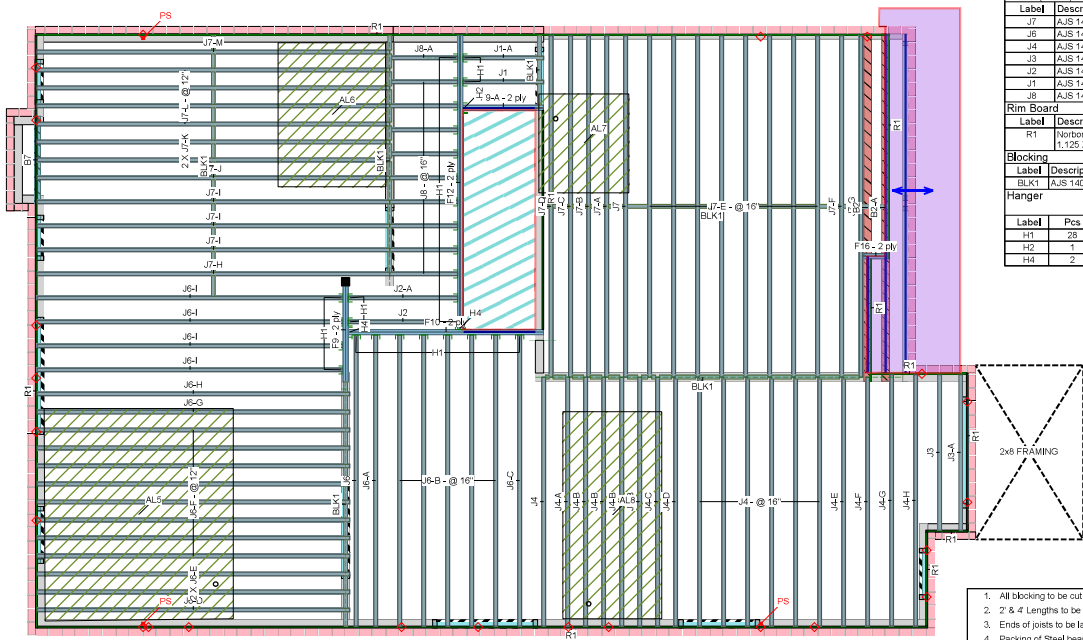
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Page 13 of 41

Second Floor



Second Floor							
LVL/LSL (Flush)							
Label	Description	Width	Depth	Qty	Pies	Pcs	Length
F12	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	18'-0"
F10	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	12'-0"
F9	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	2	2	4	6'-0"
F16	Versa-Lam LVL 2.1E 3100 SP	1.75	11.875	1	2	2	2'-0"
Joist (Flush)							
Label	Description	Width	Depth	Pcs	Length		
J7	AJS 140	2.5	11.875	27	20'-0"		
J6	AJS 140	2.5	11.875	25	18'-0"		
J4	AJS 140	2.5	11.875	18	14'-0"		
J3	AJS 140	2.5	11.875	2	10'-0"		
J2	AJS 140	2.5	11.875	2	8'-0"		
J1	AJS 140	2.5	11.875	2	6'-0"		
J8	AJS 140	2.5	11.875	10	4'-0"		
Rim Board							
Label	Description	Width	Depth	Pcs	Length		
R1	Norbord Rimboard Plus 1.125 X 11.875	1.125	11.875	16	12'-0"		
Blocking							
Label	Description	Width	Depth	Qty	Pcs	Length	
BLK1	AJS 140	2.5	11.875	1	Varies	67'-0"	
				Beam/Girder		Supported Member	
H1	28	LF3511	12 10d	1 #BX1 1/4WS			
H2	1	LF3511	12 10d	2 #BX1 1/4WS			
H4	2	H4US410	30 16d			10 16d	

JOB INFORMATION	
Builder	GREENPARK
Project	ZADORRA ESTATES OSHAWA, ON
Shipping	ROSE 2-3 ALL OPT
Sales Rep	RALPH MIRIGELLO
Designer	8/CUSTOMERS/GREENPARK/ZADORRA ESTATES
Plotted	July 10, 2023
Layout Name	ROSE 2-3 ALL OPT
Job Path	8/CUSTOMERS/GREENPARK/ZADORRA ESTATES
	MODELS/ROSE 2/ROSE 2-3W-ROSE 2-3
	STD.IAI

DESIGN CRITERIA	
Second Floor	LSD (Canada)
Design Method	NBCC 2015
Building Code	IBC 2012(2020 Update)

Floor Loads	
Live	40
Dead	15
Deflection Joist	
LL Span /	360
TL Span /	240
Deflection Flush Girder	
LL Span /	360
TL Span /	240
Deflection Dropped Girder	
LL Span /	360
TL Span /	240
Deflection Header	
LL Span /	360
TL Span /	240
Decking	
Thickness	5/8"
Fastener	Nailed & Glued

CCMC References	
Boise - 12472-R, 12787-R	
LP - 12412-R, Roseburg - 13310-R	
Forex - 14035-R	

Kott Inc.	
3228 Wood Dr. Ottawa	
14 Anderson Blvd. Unbridge	
Ontario	
613-838-2775 /	
905-642-4400	



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- Shower and water closet flange locations are approximate only, consult architectural drawing for exact locations
- Beams identified as "B" are dropped and supplied by others
- Install 2x4 blocking @ 24" o/c under parallel non-loadbearing walls
- Load transfer blocks to be installed under all point loads
- Refer to Multiple Member Connection Detail for ply to ply nailing or bolting requirements
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Hatch Area represents where additional load has been applied (e.g. 5 psf for ceramic tile)

Installation Guide



(Open your phone's camera and
hover over this QR code to access it)

Legend

PS	Point Load Support
	Load from Above
	Wall
	Wall Opening
	Norbord Rimboard Plus 1.125 X 11.875
	AJS 140 11.875
	Versa-Lam LVL 2.1E 3100 SP 1.75 X 11.875
	1.75 X 9.5 (Dropped)