

Ground Floor Elev A

Scale 3/16 inch : 1 ft.



Argo Lumber Inc.
10275 Keele Street
Maple ON L6A 1S7
Tel: 905.832.2251

Project	Kings
Layout Name	3704
Builder	Esquire Homes
Shipping	Kings Crescent Ajax, Ontario
Design Method	LSD
Created	January 29, 2018
Revised	March 14, 2019
Description	Revision 2

Ground Floor Elev A

Design Method	LSD
Building Code	NBCC 2015 / OBC 2012

Floor

Loads	
Live	40
Dead	15

Deflection Joist

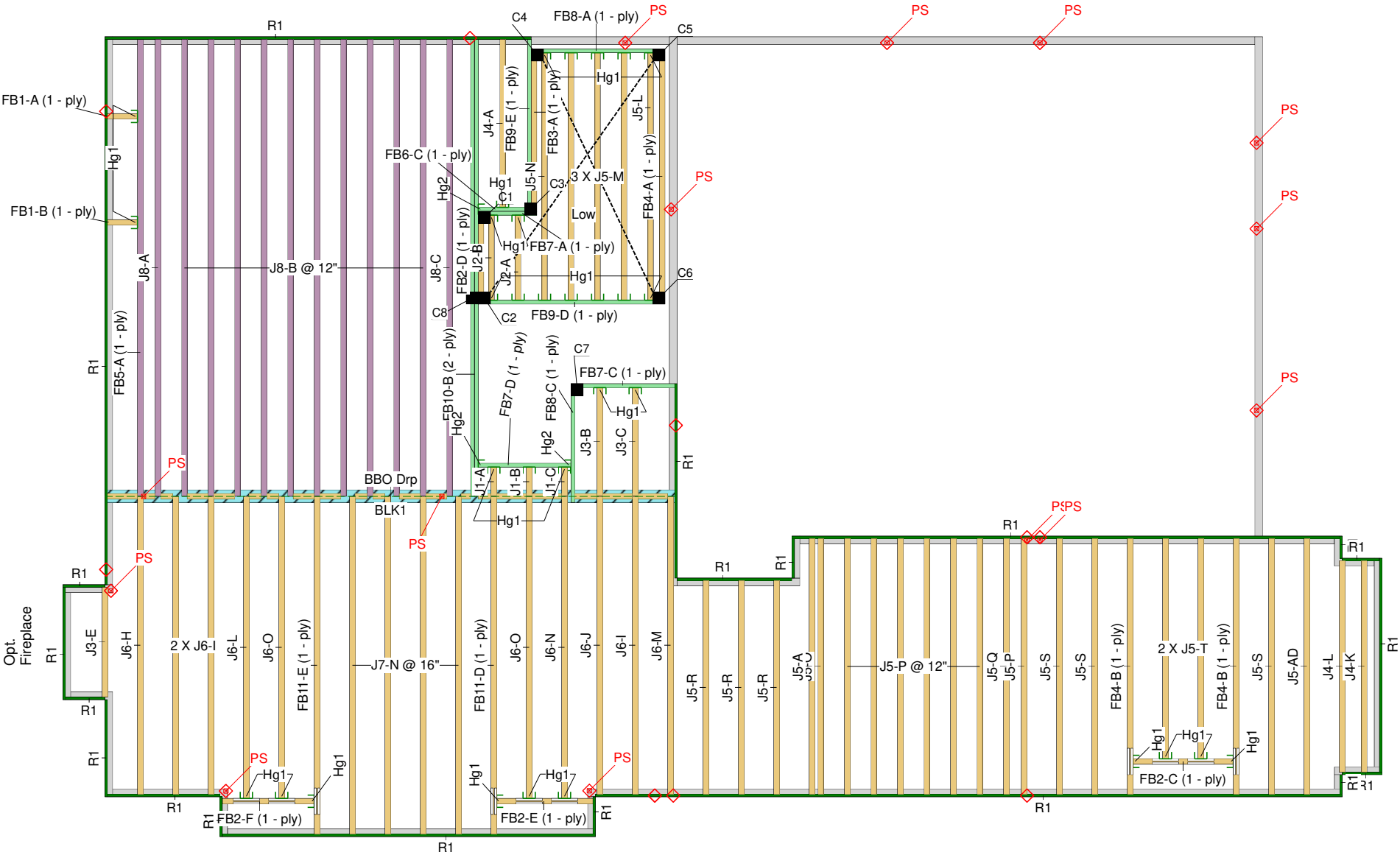
LL Span L/	360
TL Span L/	240
LL Cant 2L/	720
TL Cant 2L/	720

Deflection Girder

LL Span L/	360
TL Span L/	240
LL Cant 2L/	720
TL Cant 2L/	720

Decking

Deck	SPF Plywood
Thickness	3/4"
Fastener	Nailed & Glued
Vibration	



1. The building design professional is responsible for the overall structural stability of the structure.
2. Minimum required bearings for joists is 1.75" 3.5" for intermediate bearings
3. Minimum required bearings for LVL shall be 3" or the minimum required length indicated on the individual beam/girder member component design, whichever is greater. Each ply of the member shall be supported for the full member width for the full required minimum length of the bearing.
4. Unless otherwise noted, continuous lateral support must be provided to the compression edge of all joist/girder/beam members. Full support is considered to be a maximum unbraced length of 24". This restraint is normally provided by sheathing and/or framing members which must be adequately anchored to the member and supporting structure.
5. Provide lateral support to all joist/girder/beam member components at all bearing locations to prevent lateral displacement and rotation.
6. All joist/girder/beam member components shall be used in a dry, well ventilated environment where the moisture content will not exceed 16% - such as in most covered structure.
7. Point loads from above shall be solidly blocked (squash blocks) to solid bearing below.
8. All floor sheathing must be attached (as indicated - nailed only or nailed and glued) for the entire length of the joist.
9. Blocking required over all interior supports under load bearing walls or when floor joists are not continuous over support, for cantilevered joists or when indicated on the layout.
10. All lengths and quantities must be verified prior to installation.

Legend

PS	Point Load Support
◇	Load from Above
Wall	Wall
Common Rim Board 1.125 X 9.5	NI-20 9.5
NI-40x 9.5	NI-40x 9.5
2.0E Microllam LVL 1.75 X 9.5	2.0E Microllam LVL 1.75 X 9.5
5.5 X 9.5 (Dropped)	5.5 X 9.5 (Dropped)

Ground Floor Elev A							
Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB11	NI-20	2.5	9.5			2	14-0-0
FB4	NI-20	2.5	9.5			3	10-0-0
FB3	NI-20	2.5	9.5			1	6-0-0
FB2	NI-20	2.5	9.5			4	4-0-0
FB1	NI-20	2.5	9.5			2	2-0-0
J7	NI-20	2.5	9.5			4	14-0-0
J6	NI-20	2.5	9.5			10	12-0-0
J5	NI-20	2.5	9.5			24	10-0-0
J4	NI-20	2.5	9.5			3	8-0-0
J3	NI-20	2.5	9.5			3	6-0-0
J2	NI-20	2.5	9.5			2	4-0-0
J1	NI-20	2.5	9.5			3	2-0-0
FB5	NI-40x	2.5	9.5			1	18-0-0
J8	NI-40x	2.5	9.5			12	18-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	15-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB10	2.0E Microllam LVL	1.75	9.5	1	2	2	18-0-0
FB9	2.0E Microllam LVL	1.75	9.5			2	8-0-0
FB8	2.0E Microllam LVL	1.75	9.5			2	6-0-0
FB7	2.0E Microllam LVL	1.75	9.5			3	4-0-0
FB6	2.0E Microllam LVL	1.75	9.5			1	2-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			12	12
Hanger							
				Beam/Girder		Supported Member	
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	
Hg1	32	LT259			4 10dx1 1/2	2 10dx1 1/2	
Hg2	3	HUS1.81/10			30 16d	10 16d	

EWP manufacturers are responsible for the structural integrity of their respective products.
All "C#" callouts are End Grain Bearing Columns by Other

See attached sealed span charts for all uniformly loaded beams.
"ALL JOISTS UNDER TILED APPLICATIONS SHALL CONFORM TO OBC 9.30.06"

Second Floor Elev A

Scale 3/16 inch : 1 ft.



Argo Lumber Inc.
10275 Keele Street
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Project	Kings
Layout Name	3704
Builder	Esquire Homes
Shipping	Kings Crescent Ajax, Ontario
Design Method	LSD
Created	January 29, 2018
Revised	March 14, 2019
Description	Revision 2

Second Floor Elev A

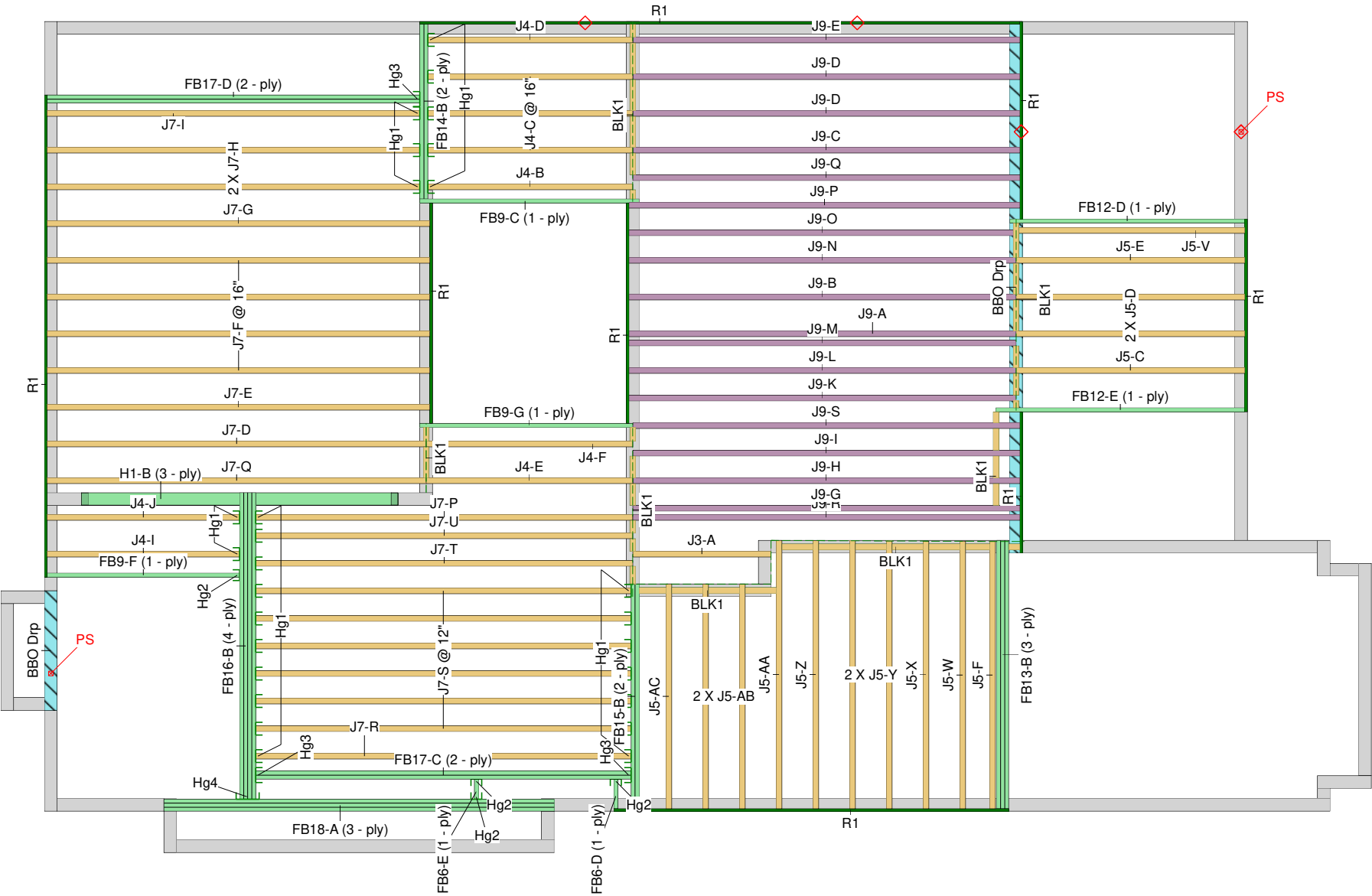
Design Method LSD
Building Code NBCC 2015 / OBC 2012

Floor Loads
Live 40
Dead 15

Deflection Joist
LL Span L/ 360
TL Span L/ 240
LL Cant 2L/ 720
TL Cant 2L/ 720

Deflection Girder
LL Span L/ 360
TL Span L/ 240
LL Cant 2L/ 720
TL Cant 2L/ 720

Decking
Deck SPF Plywood
Thickness 3/4"
Fastener Nailed & Glued
Vibration
Ceiling: Gypsum 1/2"



Ground Floor Elev B

Scale 3/16 inch : 1 ft.



Argo Lumber Inc.
10275 Keele Street
Maple ON L6A 1S7
Tel: 905.832.2251

Project

Kings

Layout Name

3704

Builder

Esquire Homes

Shipping

Kings Crescent
Ajax, Ontario

Design Method

LSD

Created

January 29, 2018

Revised

March 14, 2019

Description

Revision 2

Ground Floor Elev B

Design Method LSD

Building Code NBCC 2015 / OBC

2012

Floor

Loads

Live 40

Dead 15

Deflection Joist

LL Span L/ 360

TL Span L/ 240

LL Cant 2L/ 720

TL Cant 2L/ 720

Deflection Girder

LL Span L/ 360

TL Span L/ 240

LL Cant 2L/ 720

TL Cant 2L/ 720

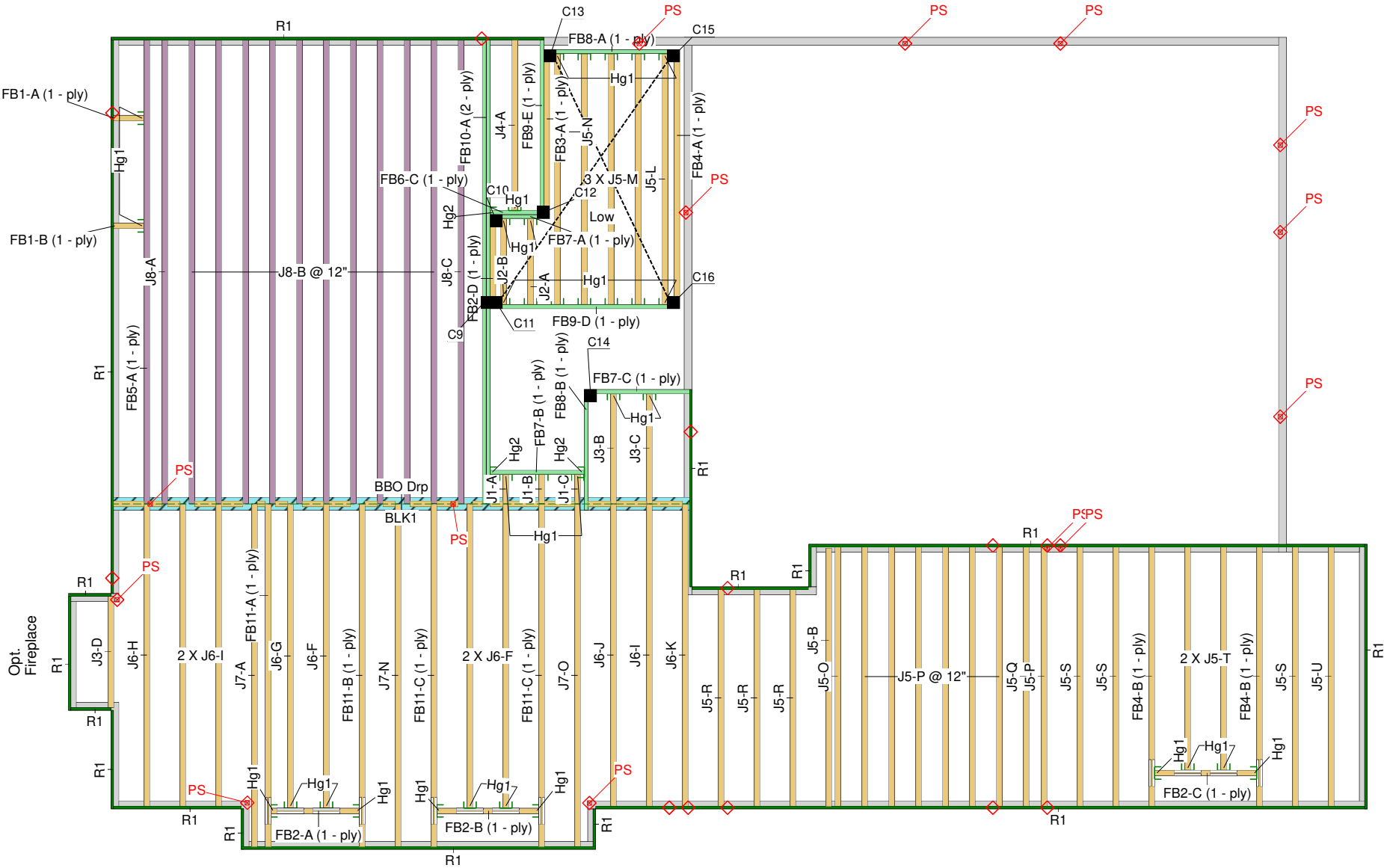
Decking

Deck SPF Plywood

Thickness 3/4"

Fastener Nailed & Glued

Vibration



1. The building design professional is responsible for the overall structural stability of the structure.
2. Minimum required bearings for joists is 1.75" 3.5" for intermediate bearings
3. Minimum required bearings for LVL shall be 3" or the minimum required length indicated on the individual beam/girder member component design, whichever is greater. Each ply of the member shall be supported for the full member width for the full required minimum length of the bearing.
4. Unless otherwise noted, continuous lateral support must be provided to the compression edge of all joist/girder/beam members. Full support is considered to be a maximum unbraced length of 24". This restraint is normally provided by sheathing and/or framing members which must be adequately anchored to the member and supporting structure.
5. Provide lateral support to all joist/girder/beam member components at all bearing locations to prevent lateral displacement and rotation.
6. All joist/girder/beam member components shall be used in a dry, well ventilated environment where the moisture content will not exceed 16% - such as in most covered structure.
7. Point loads from above shall be solidly blocked (squash blocks) to solid bearing below.
8. All floor sheathing must be attached (as indicated - nailed only or nailed and glued) for the entire length of the joist.
9. Blocking required over all interior supports under load bearing walls or when floor joists are not continuous over support, for cantilevered joists or when indicated on the layout.
10. All lengths and quantities must be verified prior to installation.

Legend

- PS
◇
- Point Load Support
- Load from Above
- Wall
- Common Rim Board 1.125 X 9.5
- NI-20 9.5
- NI-40x 9.5
- 2.0E Microllam LVL 1.75 X 9.5
- 5.5 X 9.5 (Dropped)

Ground Floor Elev B							
I Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J7	NI-20	2.5	9.5			3	14-0-0
J6	NI-20	2.5	9.5			10	12-0-0
J5	NI-20	2.5	9.5			24	10-0-0
J4	NI-20	2.5	9.5			1	8-0-0
J3	NI-20	2.5	9.5			3	6-0-0
J2	NI-20	2.5	9.5			2	4-0-0
J1	NI-20	2.5	9.5			3	2-0-0
FB11	NI-20	2.5	9.5			4	14-0-0
FB4	NI-20	2.5	9.5			3	10-0-0
FB3	NI-20	2.5	9.5			1	6-0-0
FB2	NI-20	2.5	9.5			4	4-0-0
FB1	NI-20	2.5	9.5			2	2-0-0
J8	NI-40x	2.5	9.5			12	18-0-0
FB5	NI-40x	2.5	9.5			1	18-0-0
Blocking							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	15-0-0
LVL/LSL							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB10	2.0E Microllam LVL	1.75	9.5	1	2	2	18-0-0
FB9	2.0E Microllam LVL	1.75	9.5			2	8-0-0
FB8	2.0E Microllam LVL	1.75	9.5			2	6-0-0
FB7	2.0E Microllam LVL	1.75	9.5			3	4-0-0
FB6	2.0E Microllam LVL	1.75	9.5			1	2-0-0
Rim Board							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			12	12
Hanger							
				Beam/Girder		Supported Member	
Label	Pcs	Description	Skew	Slope	fasteners	fasteners	
Hg1	34	LT259			4 10dx1 1/2	2 10dx1 1/2	
Hg2	3	HUS1.81/10			30 16d	10 16d	

EWP manufacturers are responsible for the structural integrity of their respective products.
All "C#" callouts are End Grain Bearing Columns by Other

See attached sealed span charts for all uniformly loaded beams.
"ALL JOISTS UNDER TILED APPLICATIONS SHALL CONFORM TO OBC 9.30.06"

Scale 3/16 inch : 1 ft.



Layout Name
3704

Shipping
Kings Crescent

LSD
Created

March 14, 2019	
Description	
1	...
2	...
3	...
4	...
5	...
6	...
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13	...
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24	...
25	...
26	...
27	...
28	...
29	...
30	...
31	...

Revision 2

2012

Loads

Dead	15
Deflection, joint	

LL Span L/	300
TL Span L/	240

LL Capt 2L/	720
TL Capt 2L/	720

LL Span 1/ 360

11 Cant 21 /	720
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Decking

Deck SPF Plywood

Thickness 3/4"

Fastener Nailed & Glued

Vibration

Ceiling: Gypsum 1/2"

Joist							
Label	Description	Width	Depth	Qty	Plies	Pcs	Length
J7	NI-20	2.5	9.5			21	14-0-0
J6	NI-20	2.5	9.5			5	12-0-0
J5	NI-20	2.5	9.5			10	10-0-0
J4	NI-20	2.5	9.5			9	8-0-0
J3	NI-20	2.5	9.5			1	6-0-0
J9	NI-40x	2.5	9.5			18	16-0-0

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
BLK1	NI-20	2.5	9.5	LinFt		Varies	38-0-0

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
FB17	2.0E Microllam LVL	1.75	9.5	2	2	4	14-0-0
FB20	2.0E Microllam LVL	1.75	9.5	1	3	3	14-0-0
FB16	2.0E Microllam LVL	1.75	9.5	1	4	4	12-0-0
H1	2.0E Microllam LVL	1.75	9.5	1	3	3	12-0-0
FB19	2.0E Microllam LVL	1.75	9.5			1	12-0-0
FB12	2.0E Microllam LVL	1.75	9.5			3	10-0-0
FB13	2.0E Microllam LVL	1.75	9.5	1	3	3	10-0-0
FB15	2.0E Microllam LVL	1.75	9.5	1	2	2	10-0-0
FB9	2.0E Microllam LVL	1.75	9.5			3	8-0-0
FB14	2.0E Microllam LVL	1.75	9.5	1	2	2	8-0-0
FB6	2.0E Microllam LVL	1.75	9.5			2	2-0-0

Label	Description	Width	Depth	Qty	Plies	Pcs	Length
R1	Common Rim Board 1.125 X 9.5	1.125	9.5			8	12

					Beam/Girder	Supported Member
Label	Pcs	Description	Skew	Slope	fasteners	fasteners
Hg1	27	LT259			4 10dx1 1/2	2 10dx1 1/2
Hg2	4	HUS1.81/10			30 16d	10 16d
Hg3	3	HHUS410			30 16d	10 16d
Hg4	1	HGUS7.25/10			46 16d	16 16d

See attached sealed span charts
for all uniformly loaded beams.
"ALL JOISTS UNDER TILED APPLICATIONS
SHALL CONFORM TO OBC 9.30.06"

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7. Point loads from above shall be solidly blocked (squat blocks) to solid bearing below.
8. All floor sheathing must be attached (as indicated – nailed only or nailed and glued) for the entire length of the joist.
9. Blocking required over all interior supports under load bearing walls or where floor joists are not continuous over support, for cantilevered joists or when indicated on the layout.
10. All lengths and quantities must be verified prior to installation.

	Point Load Support
	Load from Above
	Wall
	Wall Opening
	Common Rim Board 1.125 X 9.5
	NI-20 9.5
	NI-40x 9.5
	2.0E Microllam LVL 1.75 X 9.5 (Dropped)
	2.0E Microllam LVL 1.75 X 9.5
	5.5 X 9.5 (Dropped)

Point Load Support
Load from Above
Wall
Wall Opening
Common Rim Board 1.125 X 9.5
NI-20 9.5
NI-40x 9.5
2.0E Microllam LVL 1.75 X 9.5
(Dropped)
2.0E Microllam LVL 1.75 X 9.5
5.5 X 9.5 (Dropped)