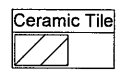


Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00-00	9 1/2" NI-20	1	3	FF
J2	18'-00-00	11 7/8" NI-20	1	24	FF
J3	16'-00-00	11 7/8" NI-20	1	47	FF
J4	13'-00-00	11 7/8" NI-20	1	10	FF
J5	12'-00-00	11 7/8" NI-20	1	1	FF
J6	10'-00-00	11 7/8" NI-20	1	11	FF
J7	9'-00-00	11 7/8" NI-20	1	1	FF
J8	6'-00-00	11 7/8" NI-20	1	17	FF
J9	3'-00-00	11 7/8" NI-20	1	1	FF
J10	2'-00-00	11 7/8" NI-20	1	2	FF
J11	20'-00-00	11 7/8" NI-40x	1	18	FF
B1	16'-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14'-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14'-00-00	VERSALAM-12 2.0E	2	2	FF
B8	10'-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9'-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9'-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9'-00-00	VERSALAM-12 2.0E	1	1	FF
B9	9'-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8'-00-00	VERSALAM-12 2.0E	2	2	FF
B3	5'-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4'-00-00	VERSALAM-10 2.0E	1	2	FF
B10	4'-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

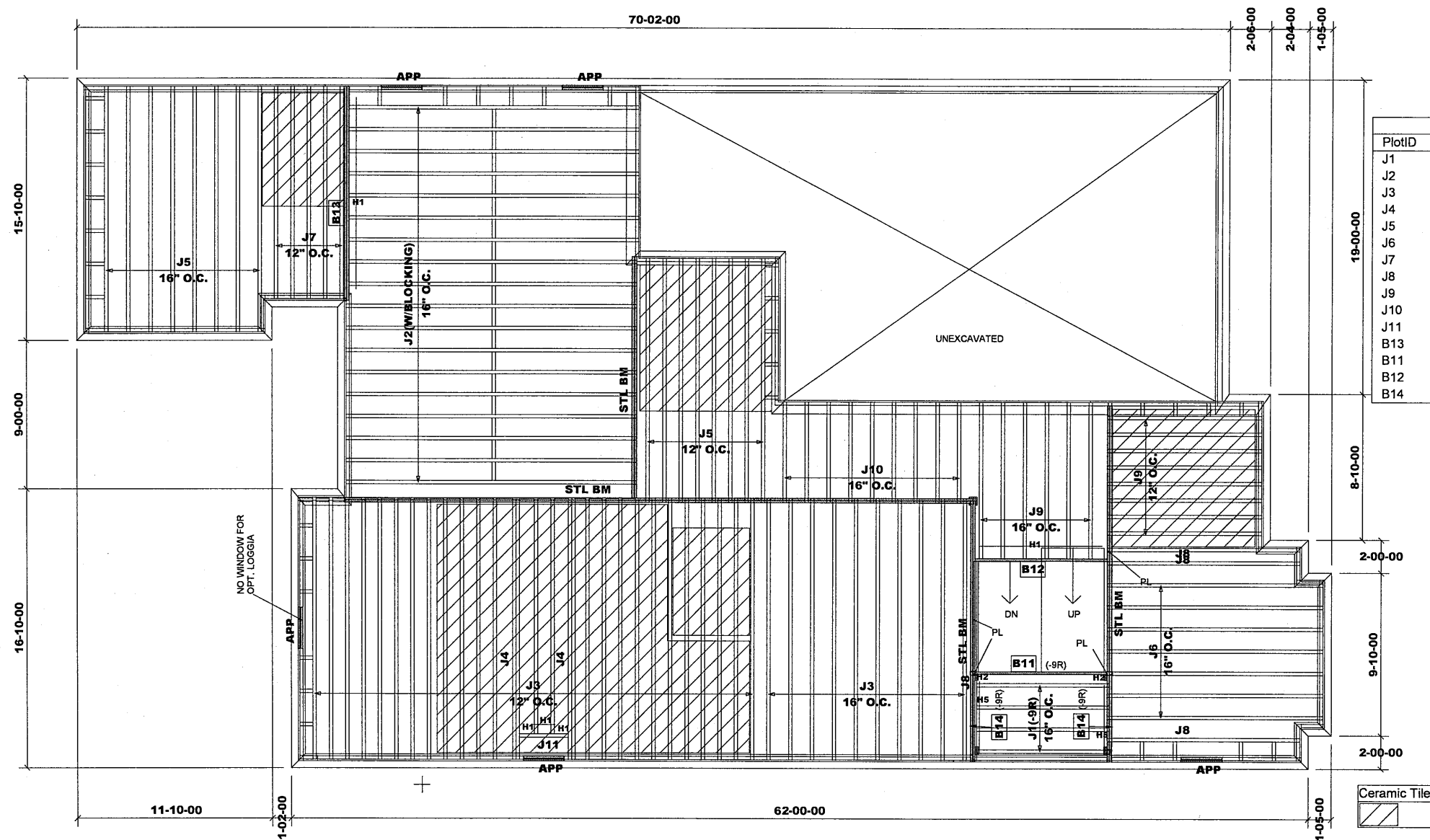
MODEL: UNIT 5005 - EL.A  
+ OPT. LOGGIA  
+ OPT. SITTING AREA

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020

SE007862 - SE007907



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	4	FF
J2	18'-00"-00	11 7/8" NI-20	1	18	FF
J3	16'-00"-00	11 7/8" NI-20	1	35	FF
J4	16'-00"-00	11 7/8" NI-20	2	4	FF
J5	15'-00"-00	11 7/8" NI-20	1	16	FF
J6	14'-00"-00	11 7/8" NI-20	1	7	FF
J7	13'-00"-00	11 7/8" NI-20	1	5	FF
J8	12'-00"-00	11 7/8" NI-20	1	4	FF
J9	10'-00"-00	11 7/8" NI-20	1	14	FF
J10	7'-00"-00	11 7/8" NI-20	1	9	FF
J11	3'-00"-00	11 7/8" NI-20	1	1	FF
B13	13'-00"-00	VERSALAM-12 2.0E	2	2	FF
B11	9'-00"-00	VERSALAM-10 2.0E	1	1	FF
B12	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B14	5'-00"-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H5-----LT259(TM)

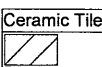
NOTE:  
TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

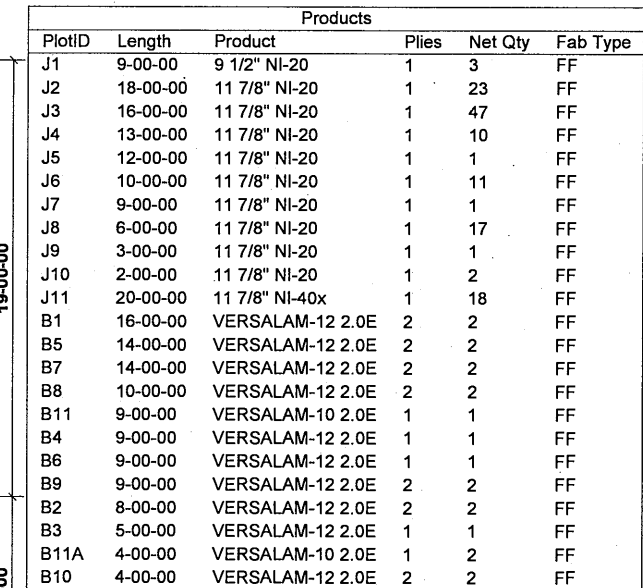
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
+ OPT. LOGGIA  
+W.O.D. CONDITION

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020




### HANGER SCHEDULE

H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)

NOTE:  
TM -----TOP MOUNT HANGERS  
FM -----FACE MOUNT HANGERS

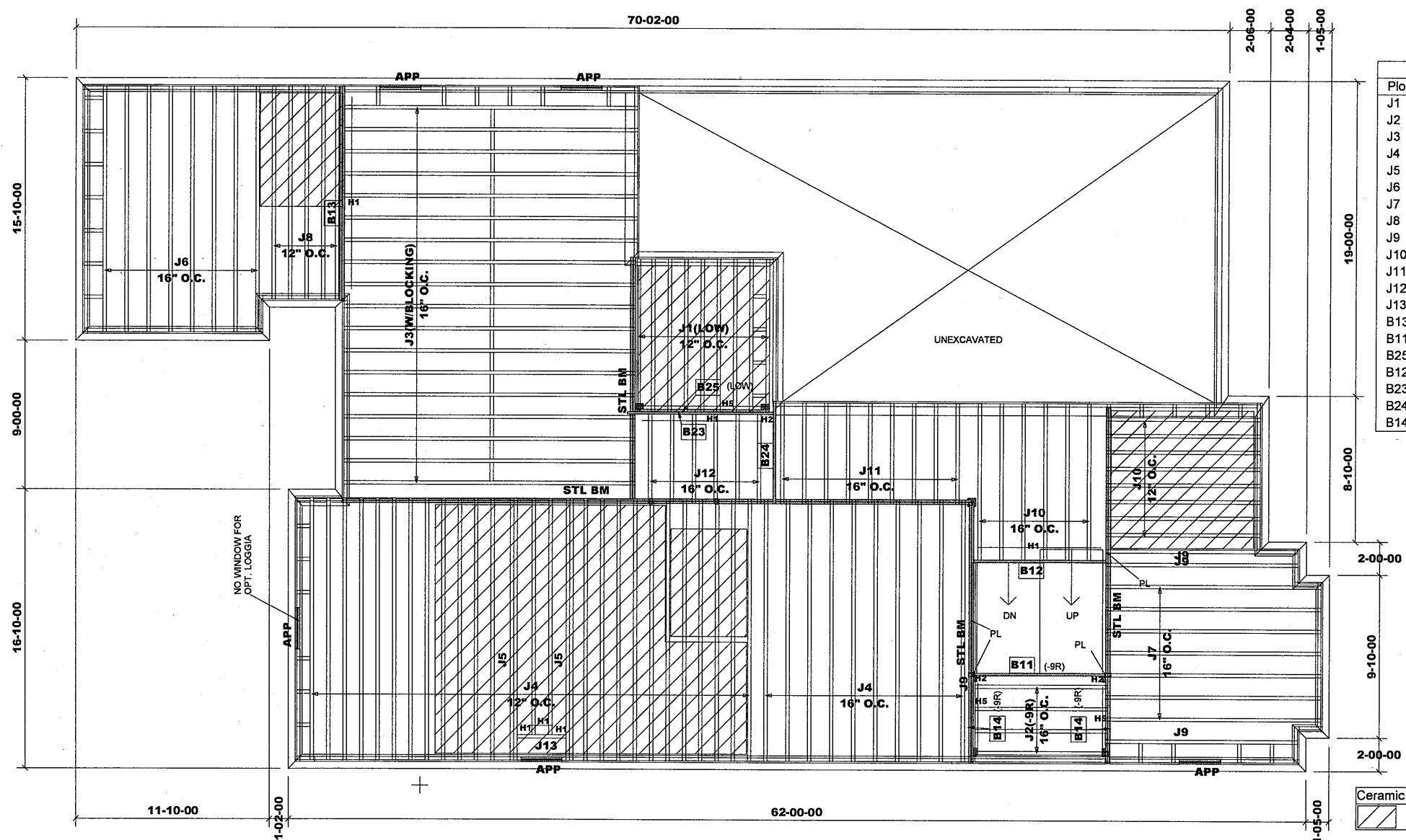
**RIMBOARD**  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
**SUBFLOOR - 3/4" NAILED & GLUED**  
**APP - AS PER PLAN**  
**BBO - BEAM BY OTHERS**

Ceramic Tile	
--------------	---

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

REVISION: March 20, 2020



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	10-00-00	9 1/2" NI-20	1	9	FF
J2	9-00-00	9 1/2" NI-20	1	4	FF
J3	18-00-00	11 7/8" NI-20	1	18	FF
J4	16-00-00	11 7/8" NI-20	1	35	FF
J5	16-00-00	11 7/8" NI-20	2	4	FF
J6	15-00-00	11 7/8" NI-20	1	8	FF
J7	14-00-00	11 7/8" NI-20	1	7	FF
J8	13-00-00	11 7/8" NI-20	1	5	FF
J9	12-00-00	11 7/8" NI-20	1	4	FF
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	9	FF
J12	6-00-00	11 7/8" NI-20	1	6	FF
J13	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B25	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B23	9-00-00	VERSALAM-12 2.0E	1	1	FF
B24	7-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

**RIMBOARD**  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
**SUBFLOOR - 3/4" NAILED & GLUED**  
**APP - AS PER PLAN**  
**BBO - BEAM BY OTHERS**

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

## First Floor Framing

**REVISION: January 22, 2018**

**MODEL: UNIT 5005 - EL.A  
+ OPT. LOGGIA(W/SUNKEN)**

JT/PL: 45147/105729

Builder: Gold Park

## Project: Pine Valley

Location: Vaughan

Date: November 28, 2017

Designer: NL

Sheet: 4 of 42

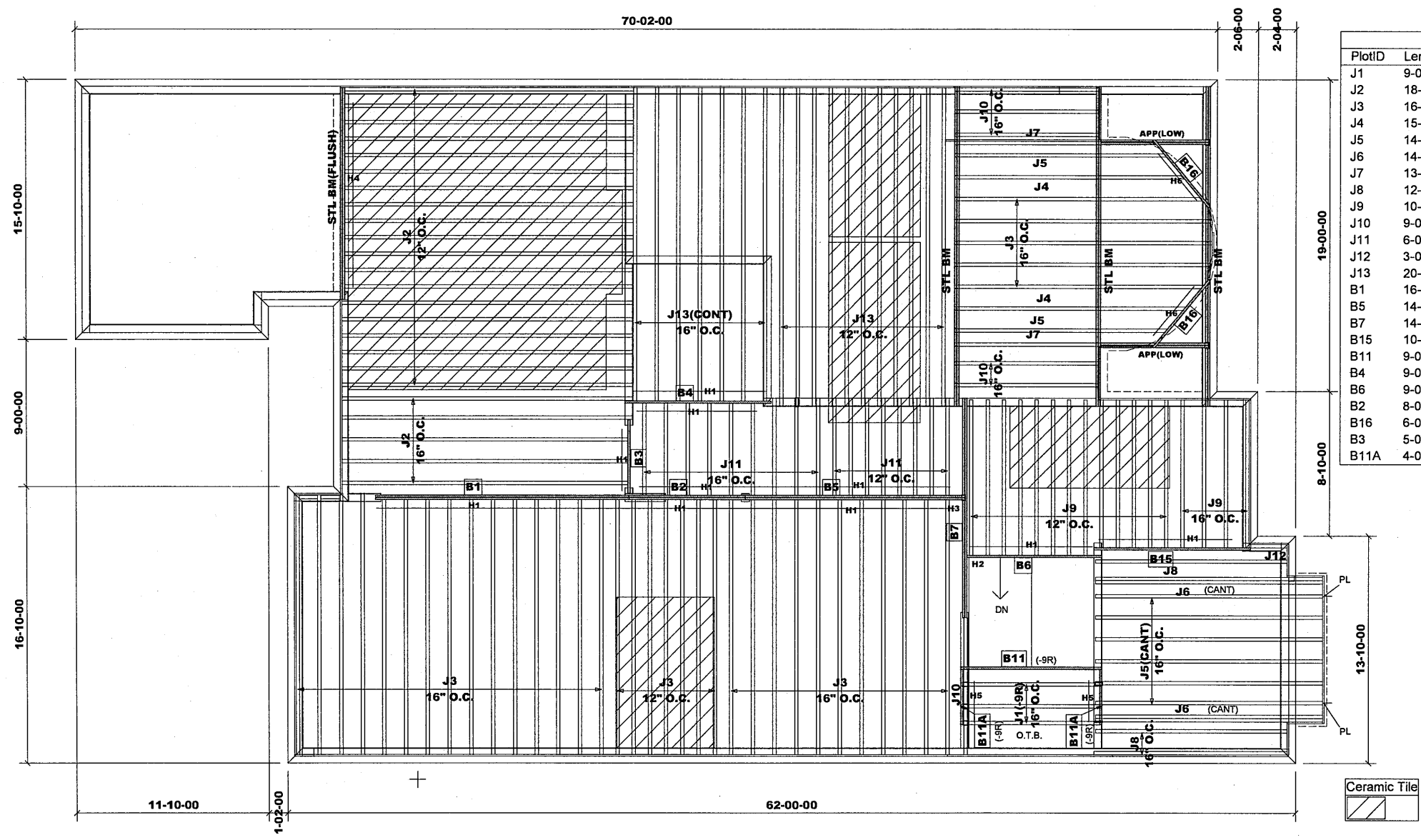
Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

## Home Lumber

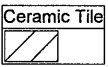




Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	17	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	18	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS

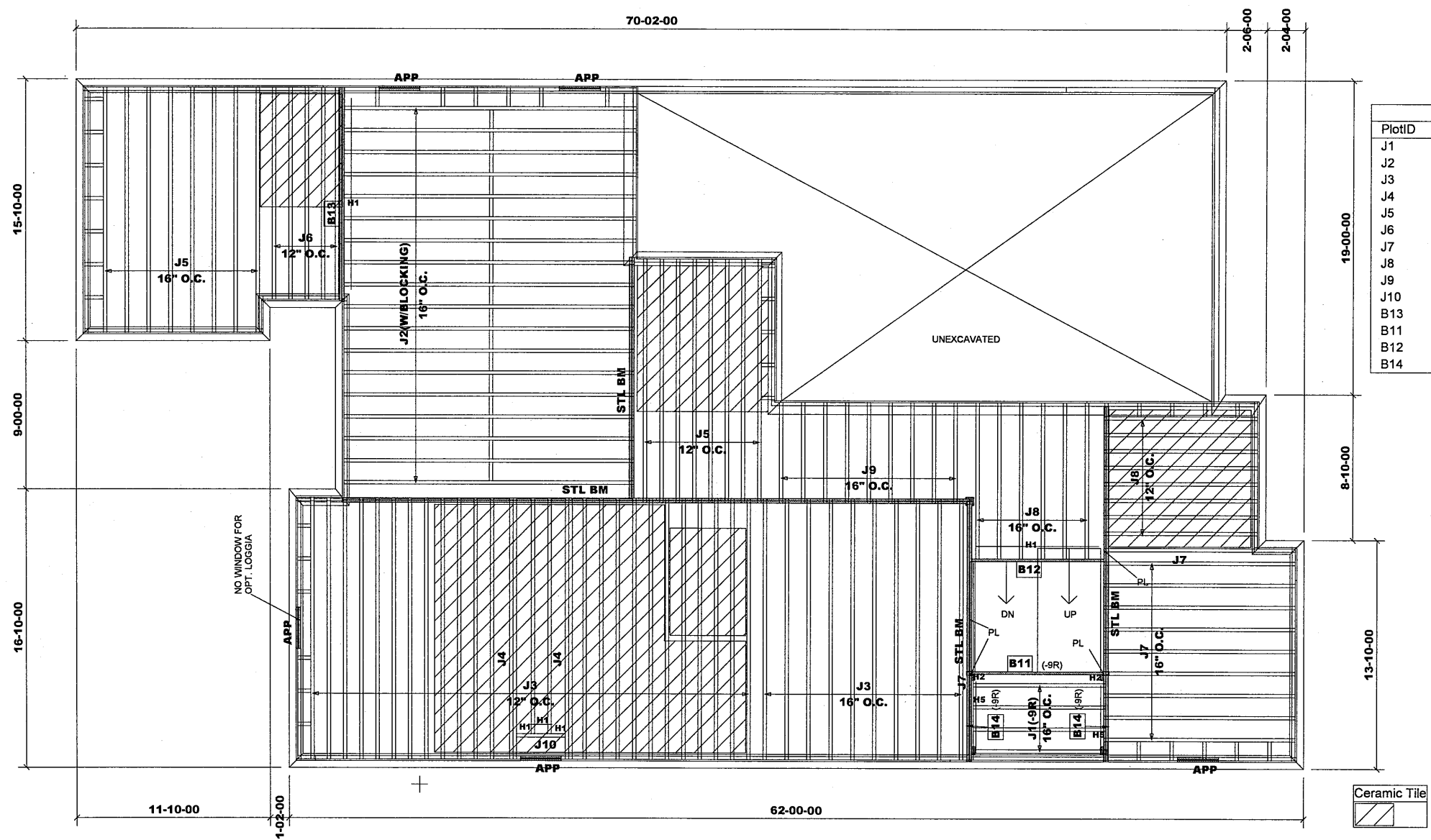


Ceramic tile application as per O.B.C. 9.30.6  
Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B  
+ OPT. SITTING AREA  
+ OPT. LOGGIA

Second Floor Framing  
Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	18	FF
J3	16-00-00	11 7/8" NI-20	1	35	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	16	FF
J6	13-00-00	11 7/8" NI-20	1	5	FF
J7	12-00-00	11 7/8" NI-20	1	11	FF
J8	10-00-00	11 7/8" NI-20	1	14	FF
J9	7-00-00	11 7/8" NI-20	1	9	FF
J10	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H5-----LT259(TM)

NOTE:  
TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

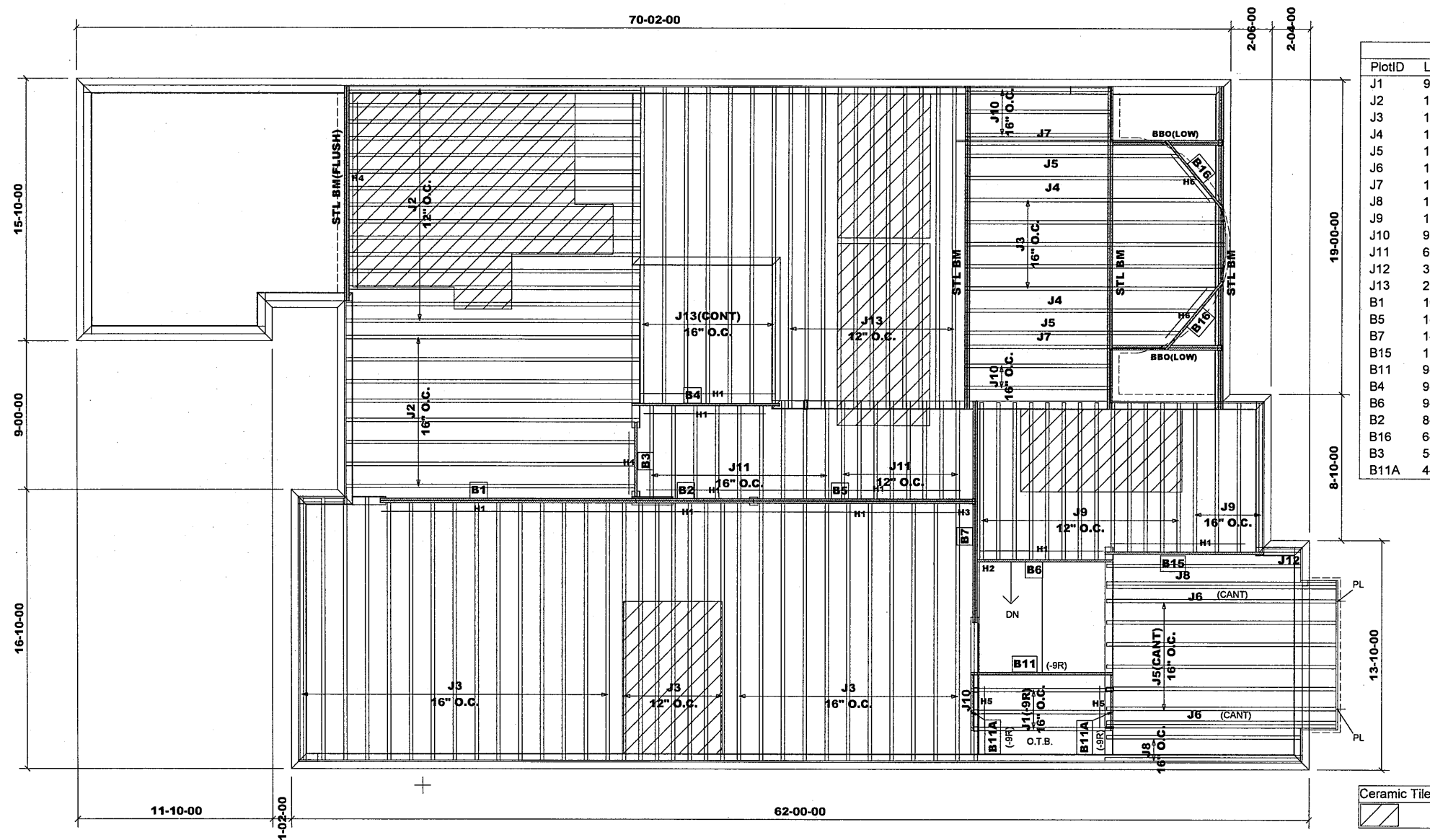
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B+C  
+ OPT. LOGGIA  
+ W.O.D. CONDITION

First Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	17	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	18	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----LSSUH310(FM)

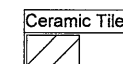
NOTE:  
TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Blocking panels are required over all interior supports.  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B  
W/OPT. 2ND FLOOR  
+ OPT. LOGGIA

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

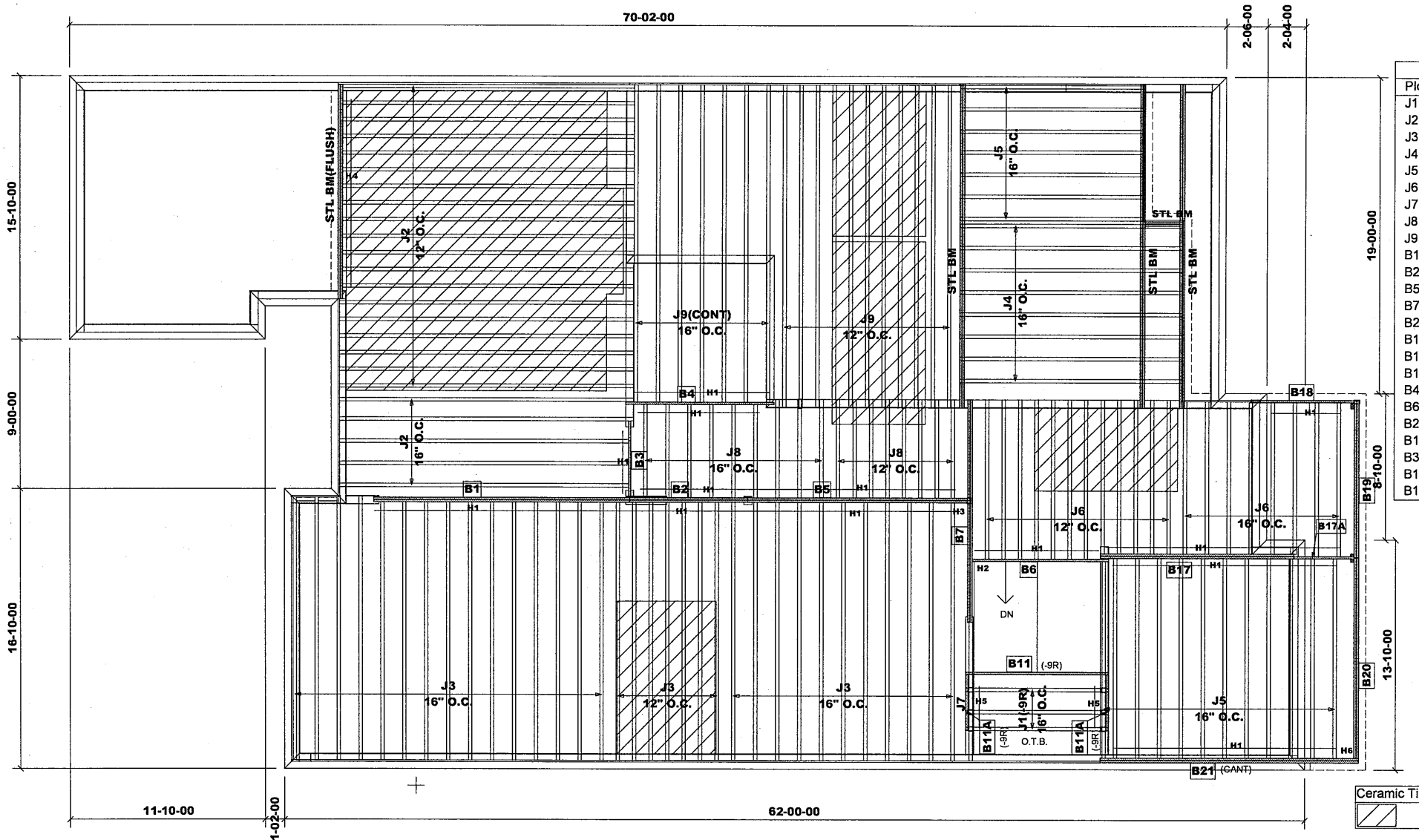
Project: Pine Valley

Date: November 28, 2017

Sheet: 7 of 42

Maple, Ontario

Home Lumber



MODEL: UNIT 5005 - E.L.C  
+ OPT. LOGGIA  
+ OPT. SITTING AREA

## Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	8	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	17	FF
J9	20-00-00	11 7/8" NI-40x	1	18	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B18	8-00-00	VERSALAM-12 2.0E	2	2	FF
B12	7-00-00	VERSALAM-12 2.0E	1	1	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----HUC410(FM)

### NOTE:

TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

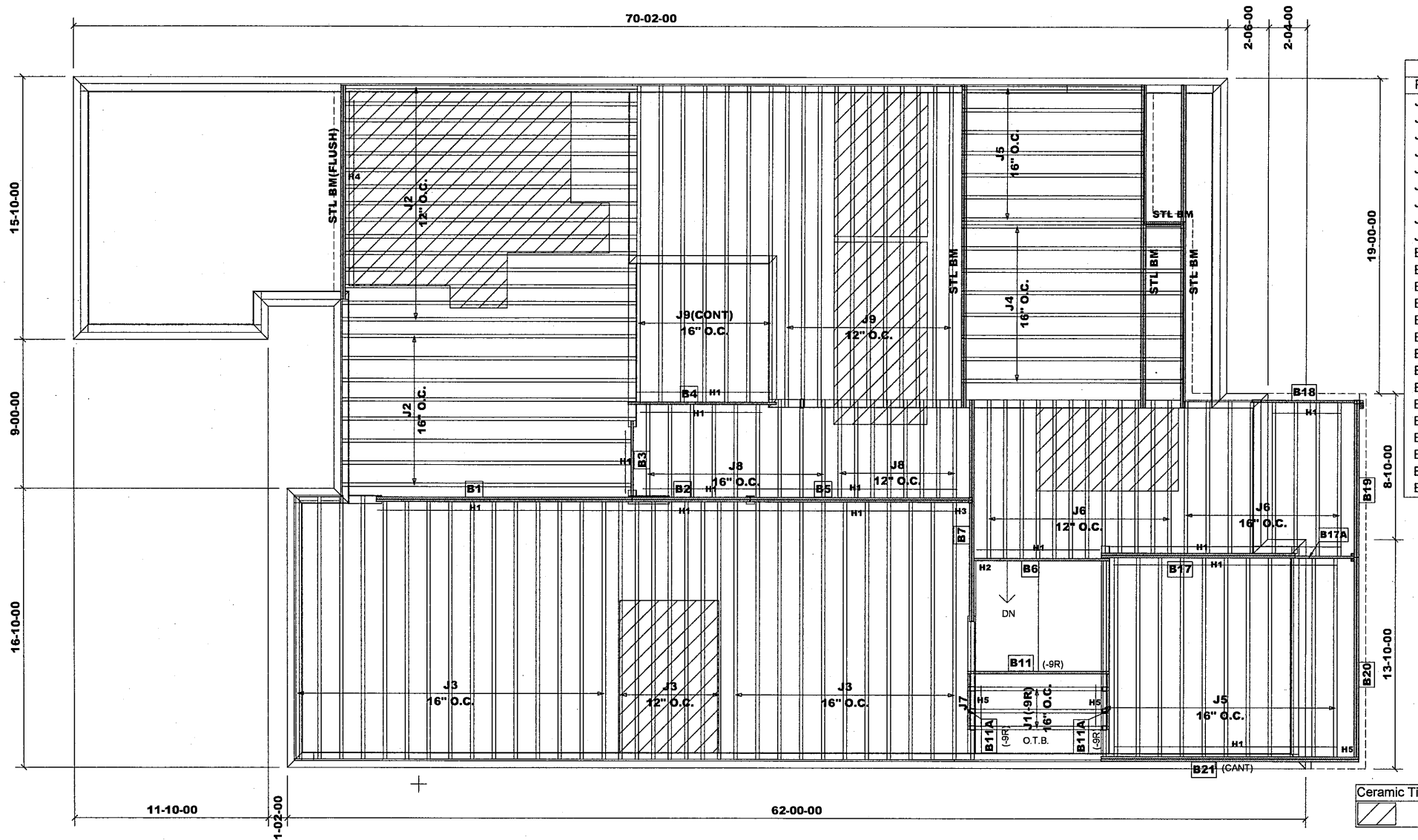
Project: Pine Valley

Date: November 28, 2017

Sheet: 8 of 42

Maple, Ontario

Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	8	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	17	FF
J9	20-00-00	11 7/8" NI-40x	1	18	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B18	7-00-00	VERSALAM-12 2.0E	1	1	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	HUC410(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - E.L.C  
W/OPT. 2ND FLOOR  
+ OPT. LOGGIA

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 20, 2020

JT/PL: 45147/105729  
LI: 318279(290684)

Builder: Gold Park  
Project: Pine Valley

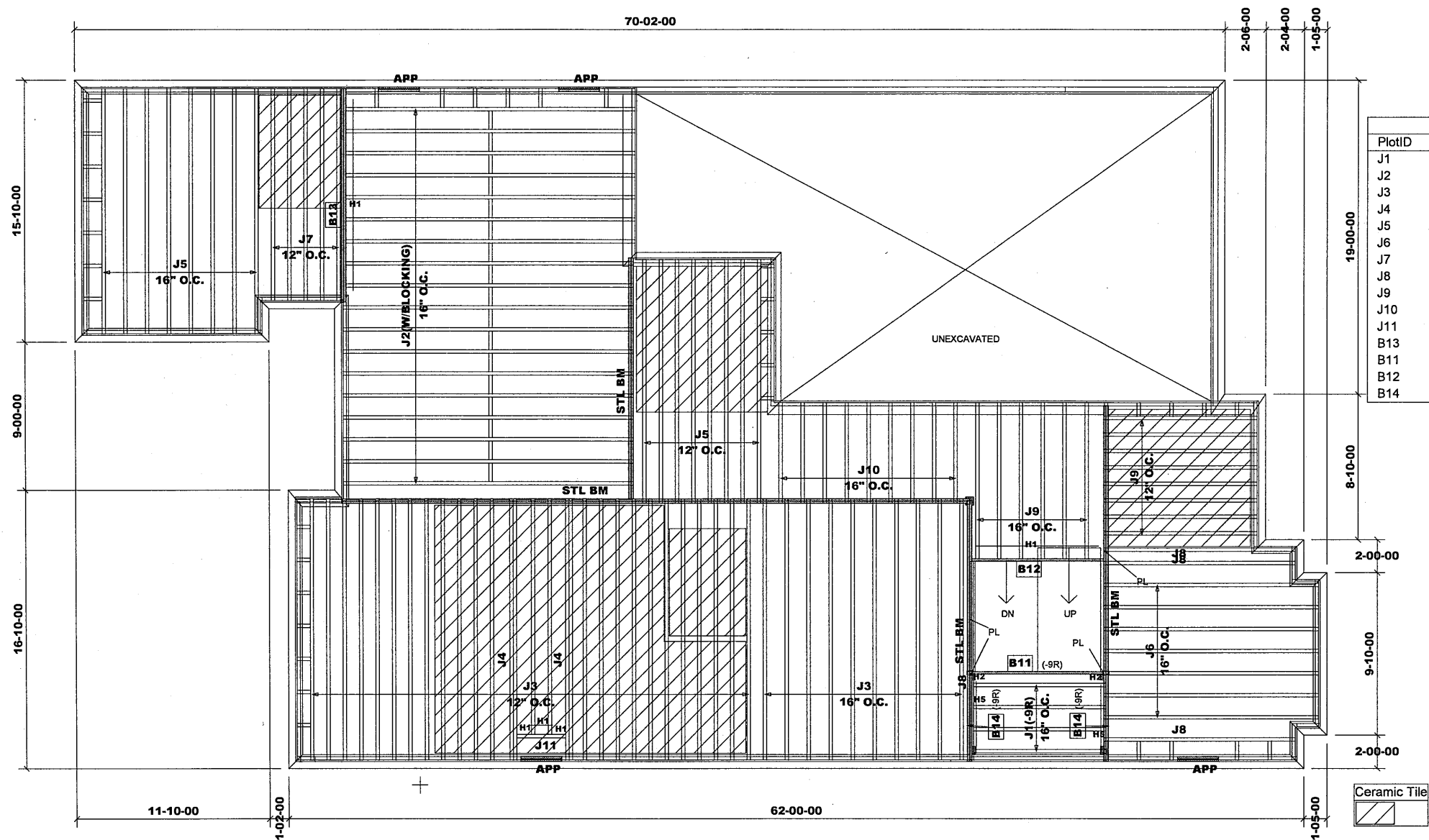
Location: Vaughan  
Date: November 28, 2017

Designer: NL  
Sheet: 9 of 42

Alpa Roof Trusses Inc.  
Maple, Ontario

Salesperson: Derek  
Home Lumber





Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	18	FF
J3	16-00-00	11 7/8" NI-20	1	35	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	16	FF
J6	14-00-00	11 7/8" NI-20	1	7	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	4	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	7-00-00	11 7/8" NI-20	1	9	FF
J11	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

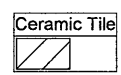
HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H5	LT259(TM)

NOTE:  
 TM -----TOP MOUNT HANGERS  
 FM -----FACE MOUNT HANGERS

**RIMBOARD**  
 1- 1/8" X 9 1/2" O.S.B.  
 1- 1/8" X 11 7/8" O.S.B.

**SUBFLOOR - 3/4" NAILED & GLUED**

APP - AS PER PLAN  
 BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

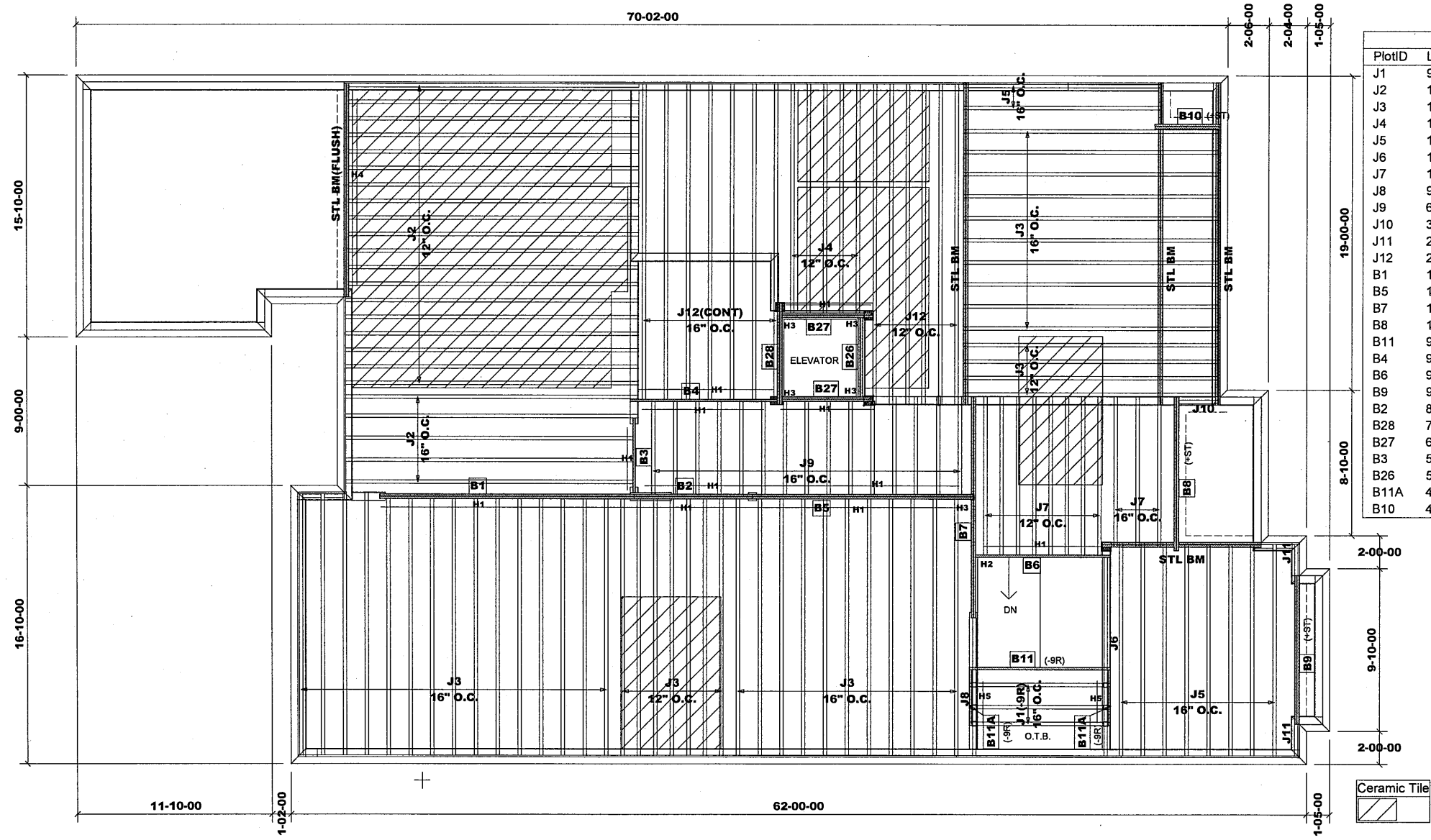
Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.

**MODEL: UNIT 5005 - EL.A**  
**W/L.O.D. & W.O.B. COND.**  
**EL.B & ELC SIMILAR**

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

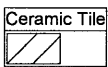




Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	47	FF
J4	14-00-00	11 7/8" NI-20	1	5	FF
J5	13-00-00	11 7/8" NI-20	1	10	FF
J6	12-00-00	11 7/8" NI-20	1	1	FF
J7	10-00-00	11 7/8" NI-20	1	11	FF
J8	9-00-00	11 7/8" NI-20	1	1	FF
J9	6-00-00	11 7/8" NI-20	1	15	FF
J10	3-00-00	11 7/8" NI-20	1	1	FF
J11	2-00-00	11 7/8" NI-20	1	2	FF
J12	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B8	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B9	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B10	4-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS

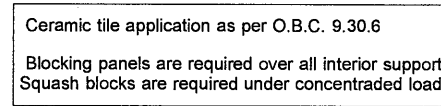


Ceramic tile application as per O.B.C. 9.30.6  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

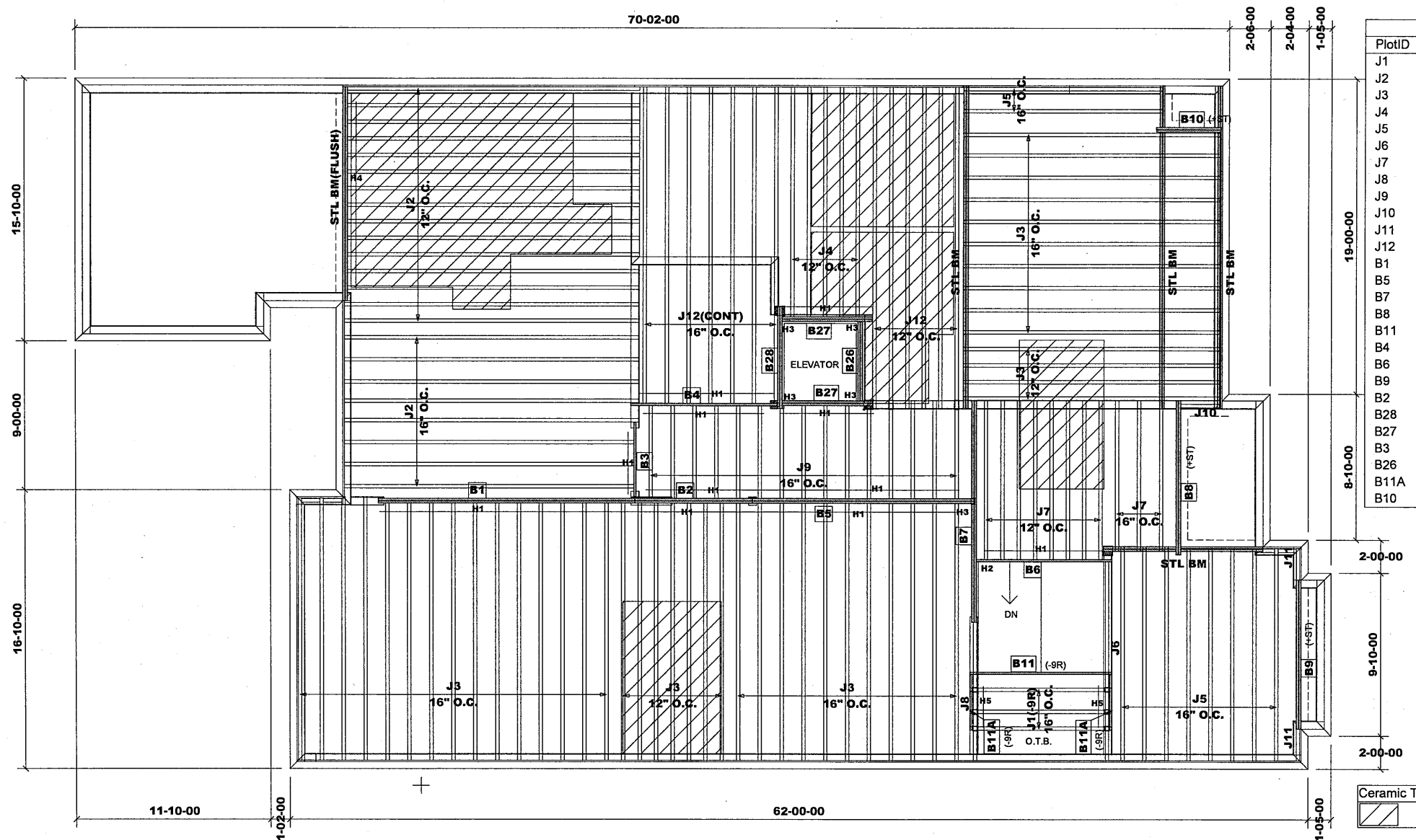
MODEL: UNIT 5005 - EL.A  
W/OPT. ELEVATOR  
+ OPT. LOGGIA

Second Floor Framing  
Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020



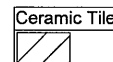
REVISION: March 24, 2020



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	47	FF
J4	14-00-00	11 7/8" NI-20	1	5	FF
J5	13-00-00	11 7/8" NI-20	1	10	FF
J6	12-00-00	11 7/8" NI-20	1	1	FF
J7	10-00-00	11 7/8" NI-20	1	11	FF
J8	9-00-00	11 7/8" NI-20	1	1	FF
J9	6-00-00	11 7/8" NI-20	1	15	FF
J10	3-00-00	11 7/8" NI-20	1	1	FF
J11	2-00-00	11 7/8" NI-20	1	2	FF
J12	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B8	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B9	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B10	4-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/OPT. ELEVATOR(OPT. 2ND FL.)  
+ OPT. LOGGIA

## Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

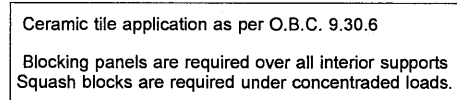
Project: Pine Valley

Date: November 29, 2017

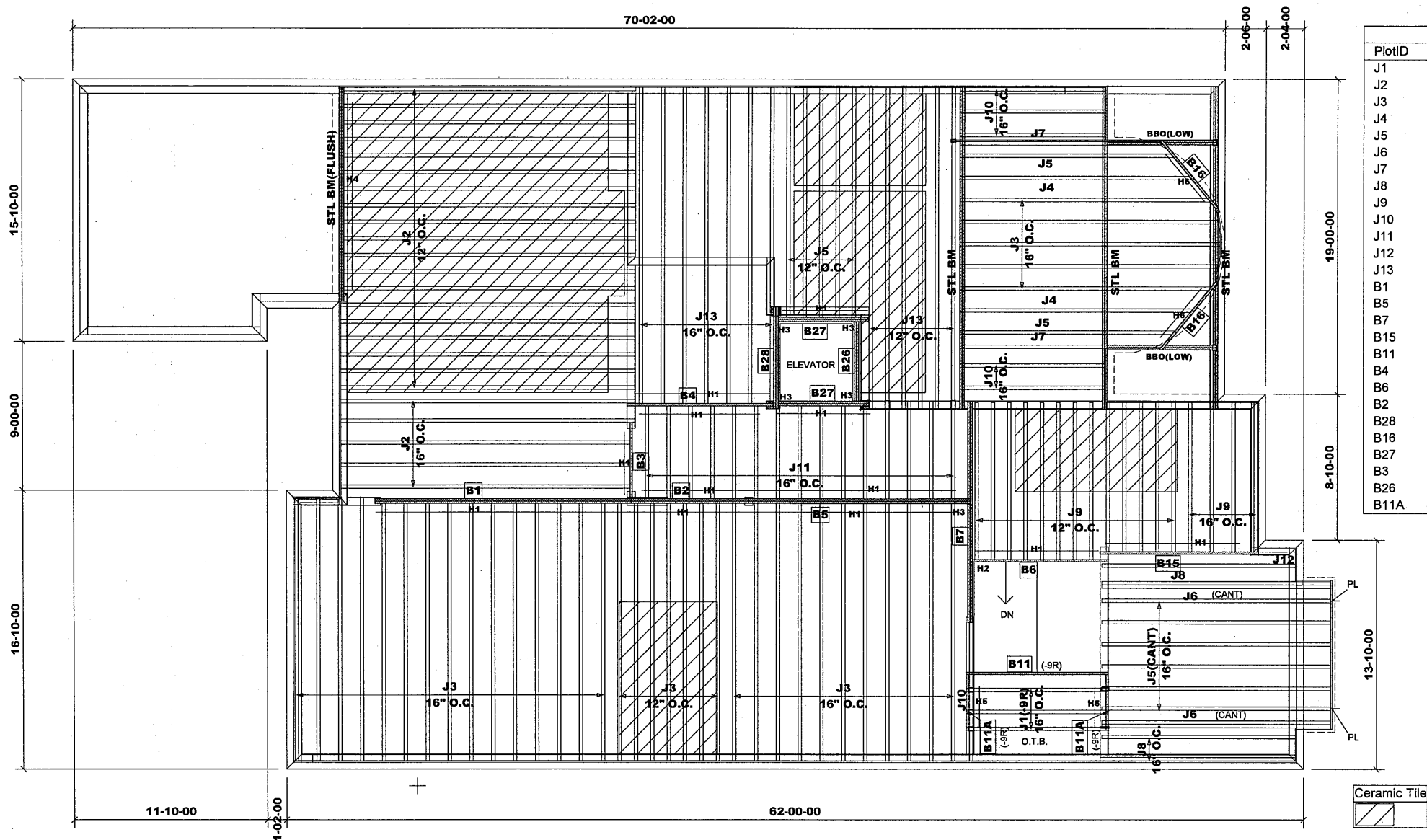
Sheet: 14 of 42

Maple, Ontario

Home Lumber



**REVISION: March 24, 2020**



MODEL: UNIT 5005 - EL.B  
W/OPT. ELEVATOR  
+ OPT. LOGGIA

## Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	13	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	15	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----LSSUH310(FM)

#### NOTE:

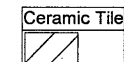
TM -----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

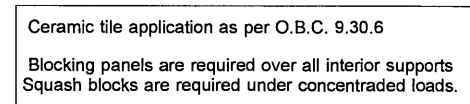
Project: Pine Valley

Date: November 29, 2017

Sheet: 16 of 42

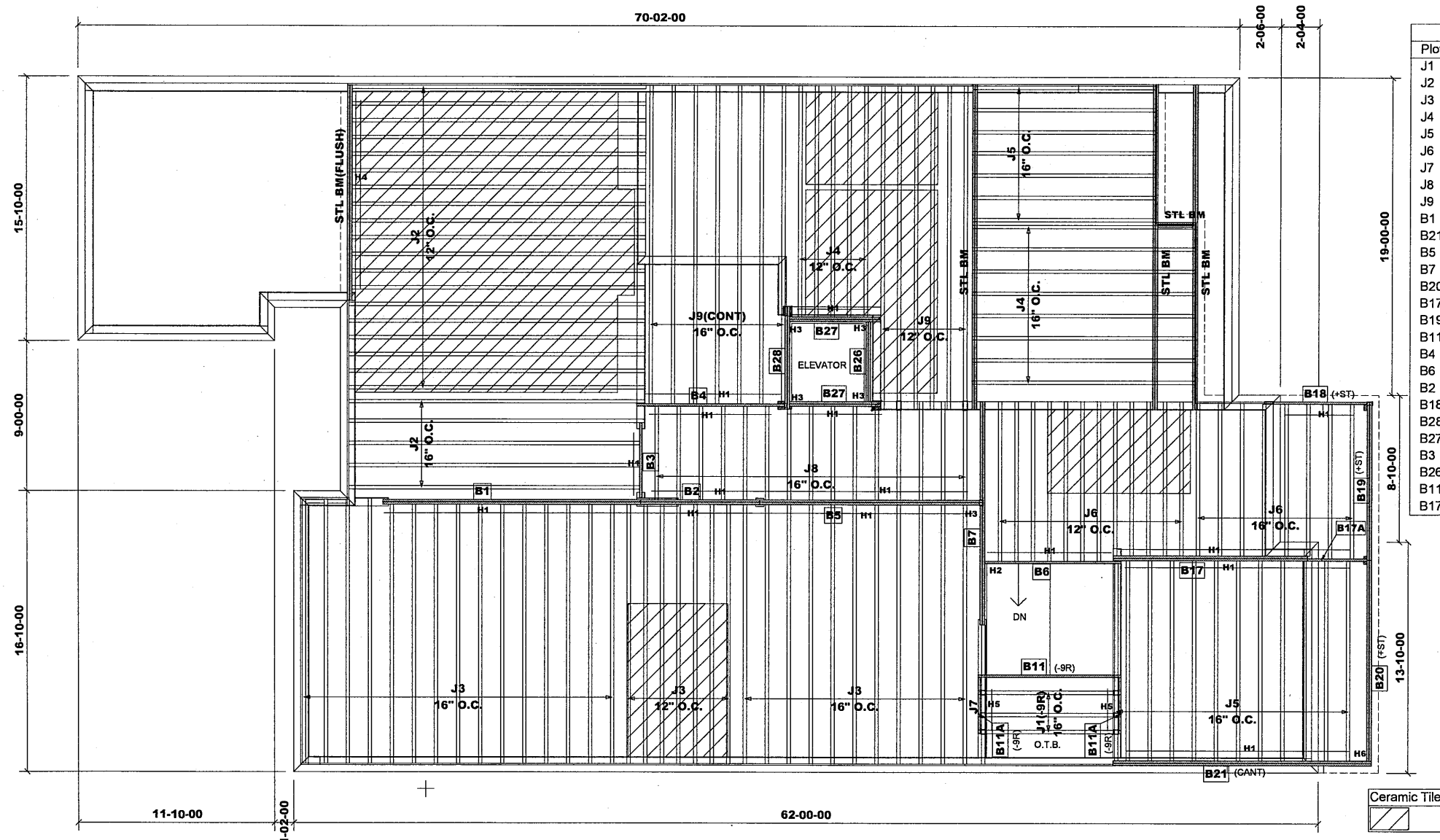
Maple, Ontario

Home Lumber









Products					
PlottID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	13	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	15	FF
J9	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B18	7-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	HUC410(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD

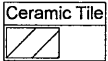
1- 1/8" X 9 1/2" O.S.B.

1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN

BBO - BEAM BY OTHERS



MODEL: UNIT 5005 - E.L.C  
W/OPT. ELEVATOR  
+ OPT. LOGGIA

Second Floor Framing

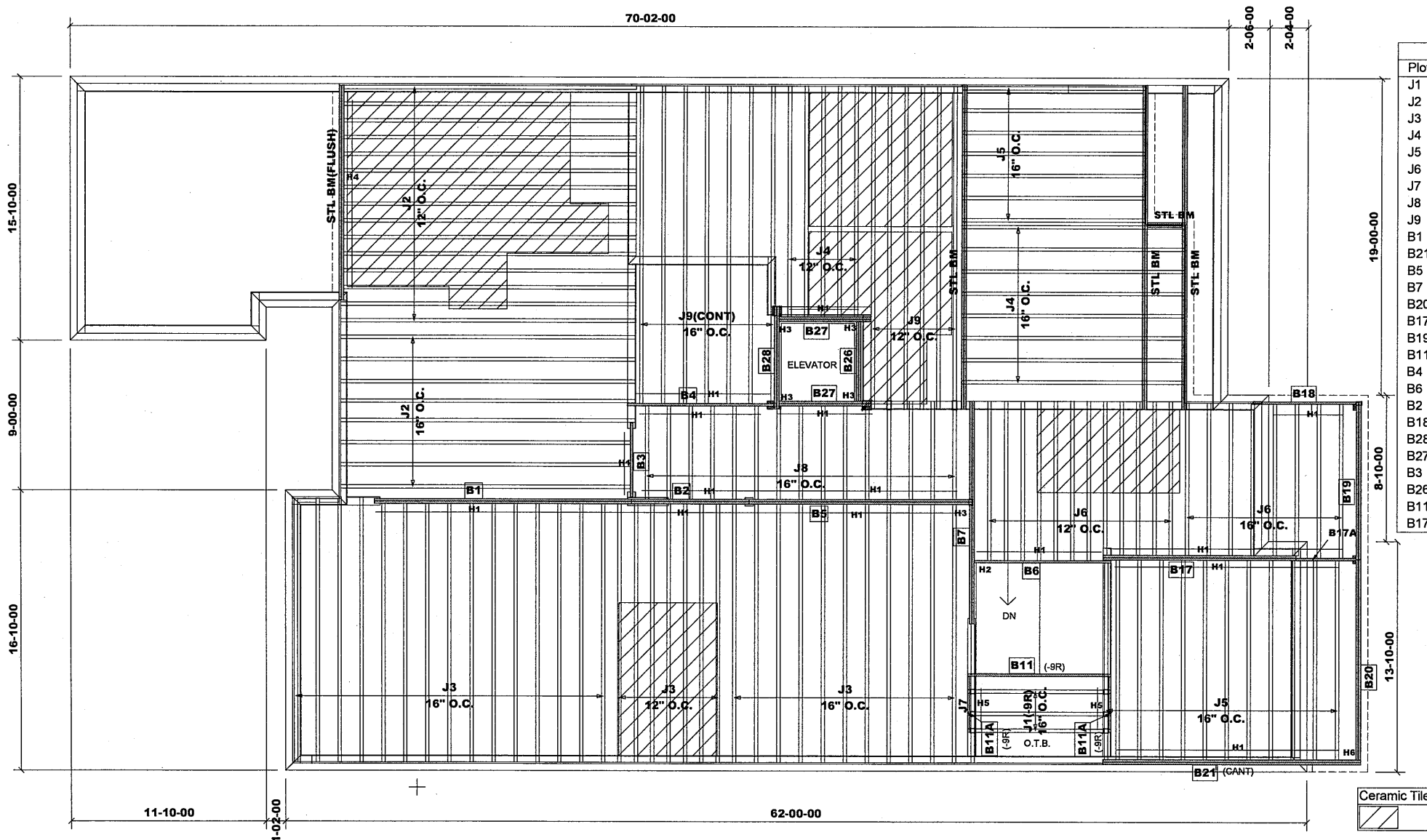
Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	23	FF
J3	16'-00"-00	11 7/8" NI-20	1	33	FF
J4	14'-00"-00	11 7/8" NI-20	1	13	FF
J5	12'-00"-00	11 7/8" NI-20	1	19	FF
J6	10'-00"-00	11 7/8" NI-20	1	20	FF
J7	9'-00"-00	11 7/8" NI-20	1	1	FF
J8	6'-00"-00	11 7/8" NI-20	1	15	FF
J9	20'-00"-00	11 7/8" NI-40x	1	13	FF
B1	16'-00"-00	VERSALAM-12 2.0E	2	2	FF
B21	16'-00"-00	VERSALAM-12 2.0E	2	2	FF
B5	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B7	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B20	13'-00"-00	VERSALAM-12 2.0E	2	2	FF
B17	12'-00"-00	VERSALAM-12 2.0E	2	2	FF
B19	10'-00"-00	VERSALAM-12 2.0E	2	2	FF
B11	9'-00"-00	VERSALAM-10 2.0E	1	1	FF
B4	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B6	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B2	8'-00"-00	VERSALAM-12 2.0E	2	2	FF
B18	7'-00"-00	VERSALAM-12 2.0E	1	1	FF
B28	7'-00"-00	VERSALAM-12 2.0E	2	2	FF
B27	6'-00"-00	VERSALAM-12 2.0E	2	4	FF
B3	5'-00"-00	VERSALAM-12 2.0E	1	1	FF
B26	5'-00"-00	VERSALAM-12 2.0E	2	2	FF
B11A	4'-00"-00	VERSALAM-10 2.0E	1	2	FF
B17A	4'-00"-00	VERSALAM-12 2.0E	1	1	FF

**HANGER SCHEDULE**

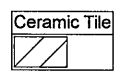
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	HUC410(FM)

**NOTE:**  
 TM -----TOP MOUNT HANGERS  
 FM-----FACE MOUNT HANGERS

**RIMBOARD**  
 1- 1/8" X 9 1/2" O.S.B.  
 1- 1/8" X 11 7/8" O.S.B.

**SUBFLOOR - 3/4" NAILED & GLUED**

**APP - AS PER PLAN**  
**BBO - BEAM BY OTHERS**



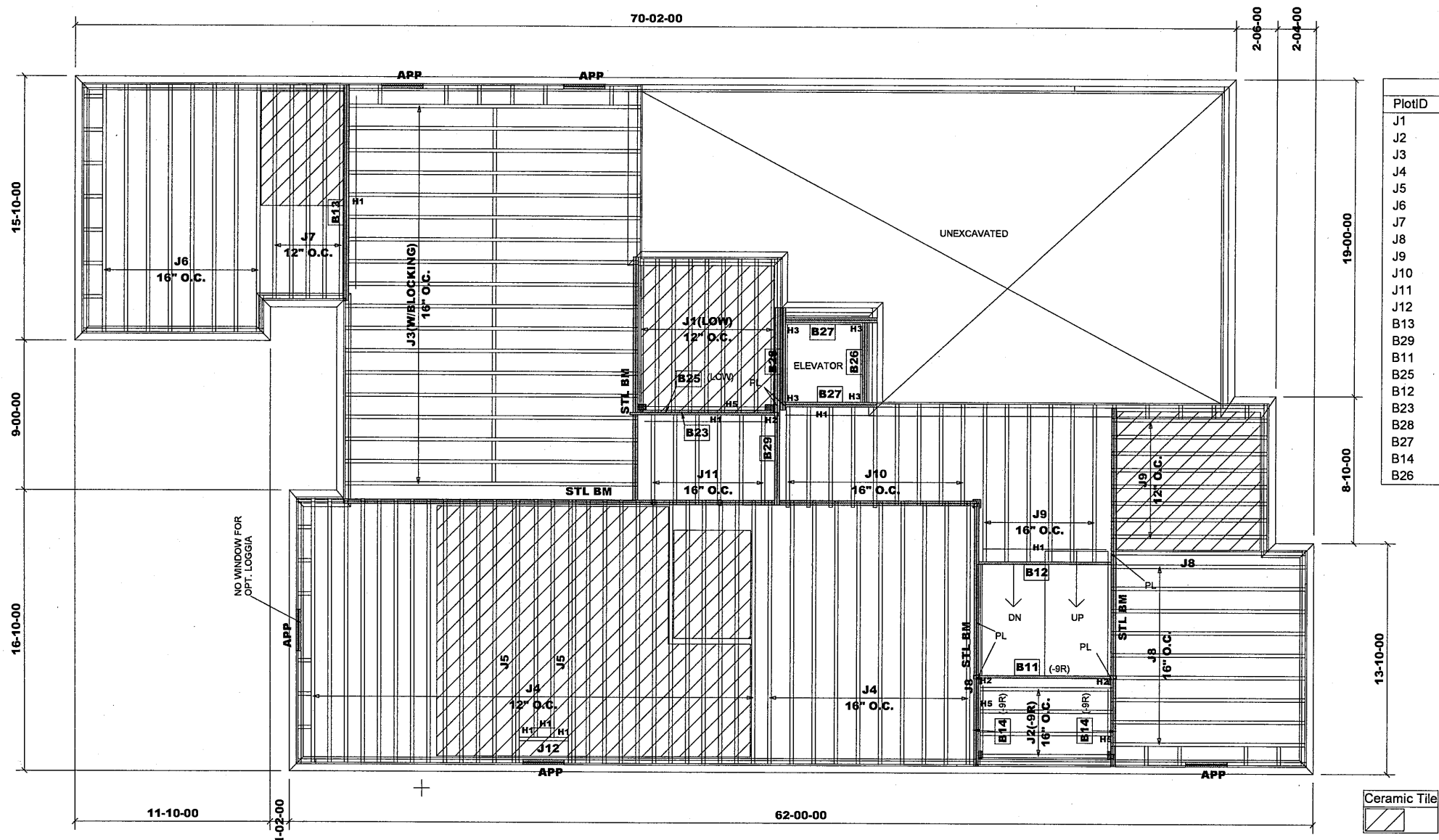
**MODEL: UNIT 5005 - EL.C**  
**W/OPT. ELEVATOR(OPT. 2ND FL.)**  
**+ OPT. LOGGIA**

**Second Floor Framing**  
 Do not scale - refer to architectural plans for dimensions

**REVISION: March 24, 2020**

Ceramic tile application as per O.B.C. 9.30.6

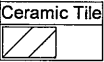
Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	10-00-00	9 1/2" NI-20	1	9	FF
J2	9-00-00	9 1/2" NI-20	1	4	FF
J3	18-00-00	11 7/8" NI-20	1	18	FF
J4	16-00-00	11 7/8" NI-20	1	35	FF
J5	16-00-00	11 7/8" NI-20	2	4	FF
J6	15-00-00	11 7/8" NI-20	1	8	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	11	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	7-00-00	11 7/8" NI-20	1	9	FF
J11	6-00-00	11 7/8" NI-20	1	6	FF
J12	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B29	12-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B25	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B23	9-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS



MODEL: UNIT 5005 - EL.B+C  
W/OPT. ELEVATOR(SUNKEN)  
+ OPT. LOGGIA  
+ W.O.D. CONDITION

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020

Ceramic tile application as per O.B.C. 9.30.6  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729  
LI: 318279(290684)

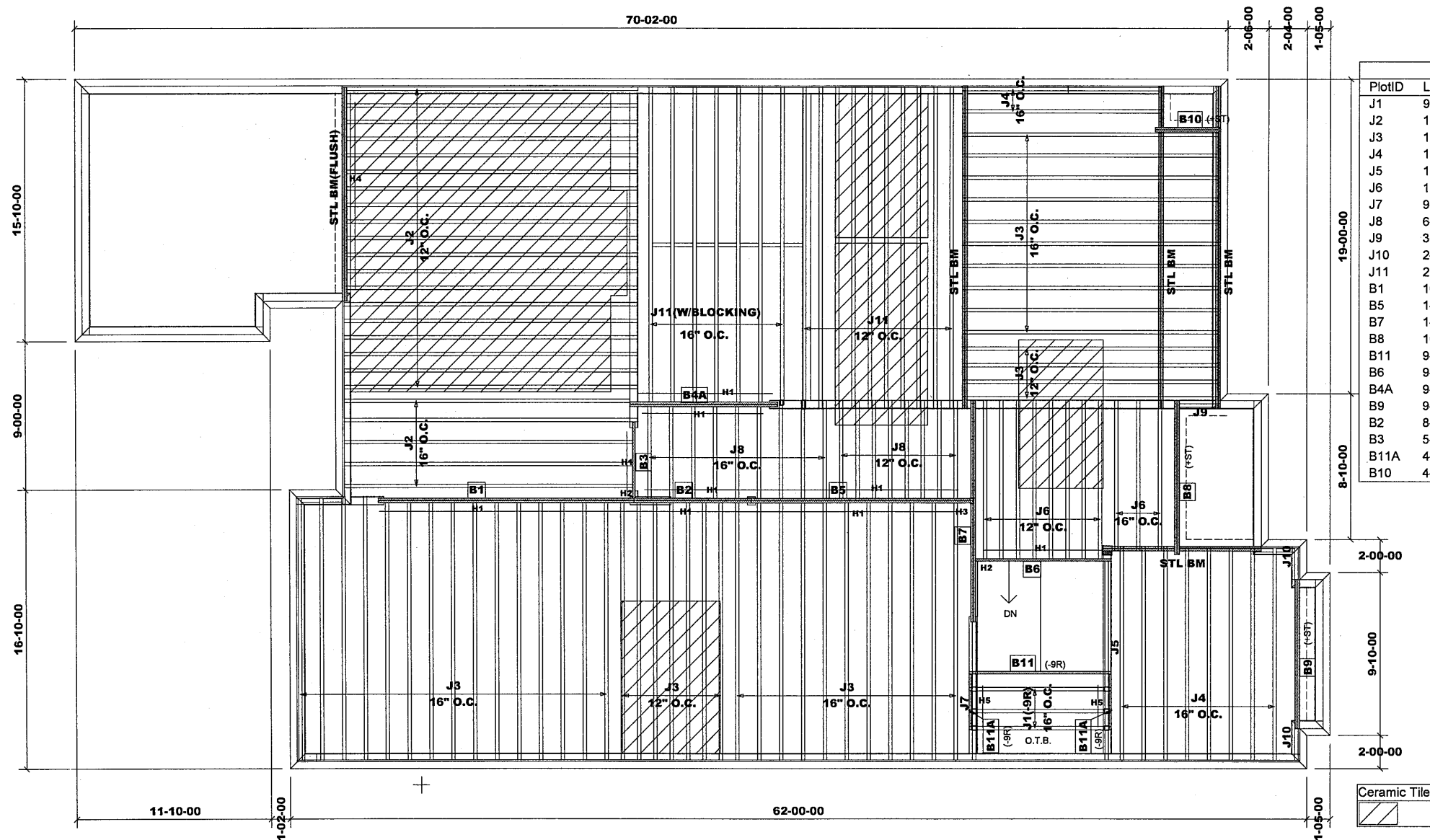
Builder: Gold Park  
Project: Pine Valley

Location: Vaughan  
Date: November 29, 2017

Designer: NL  
Sheet: 21 of 42

Alpa Roof Trusses Inc.  
Maple, Ontario

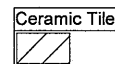
Salesperson: Derek  
Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	24	FF
J3	16'-00"-00	11 7/8" NI-20	1	47	FF
J4	13'-00"-00	11 7/8" NI-20	1	10	FF
J5	12'-00"-00	11 7/8" NI-20	1	1	FF
J6	10'-00"-00	11 7/8" NI-20	1	11	FF
J7	9'-00"-00	11 7/8" NI-20	1	1	FF
J8	6'-00"-00	11 7/8" NI-20	1	17	FF
J9	3'-00"-00	11 7/8" NI-20	1	1	FF
J10	2'-00"-00	11 7/8" NI-20	1	2	FF
J11	20'-00"-00	11 7/8" NI-40x	1	17	FF
B1	16'-00"-00	VERSALAM-12 2.0E	2	2	FF
B5	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B7	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B8	10'-00"-00	VERSALAM-12 2.0E	2	2	FF
B11	9'-00"-00	VERSALAM-10 2.0E	1	1	FF
B6	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B4A	9'-00"-00	VERSALAM-12 2.0E	2	2	FF
B9	9'-00"-00	VERSALAM-12 2.0E	2	2	FF
B2	8'-00"-00	VERSALAM-12 2.0E	2	2	FF
B3	5'-00"-00	VERSALAM-12 2.0E	1	1	FF
B11A	4'-00"-00	VERSALAM-10 2.0E	1	2	FF
B10	4'-00"-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

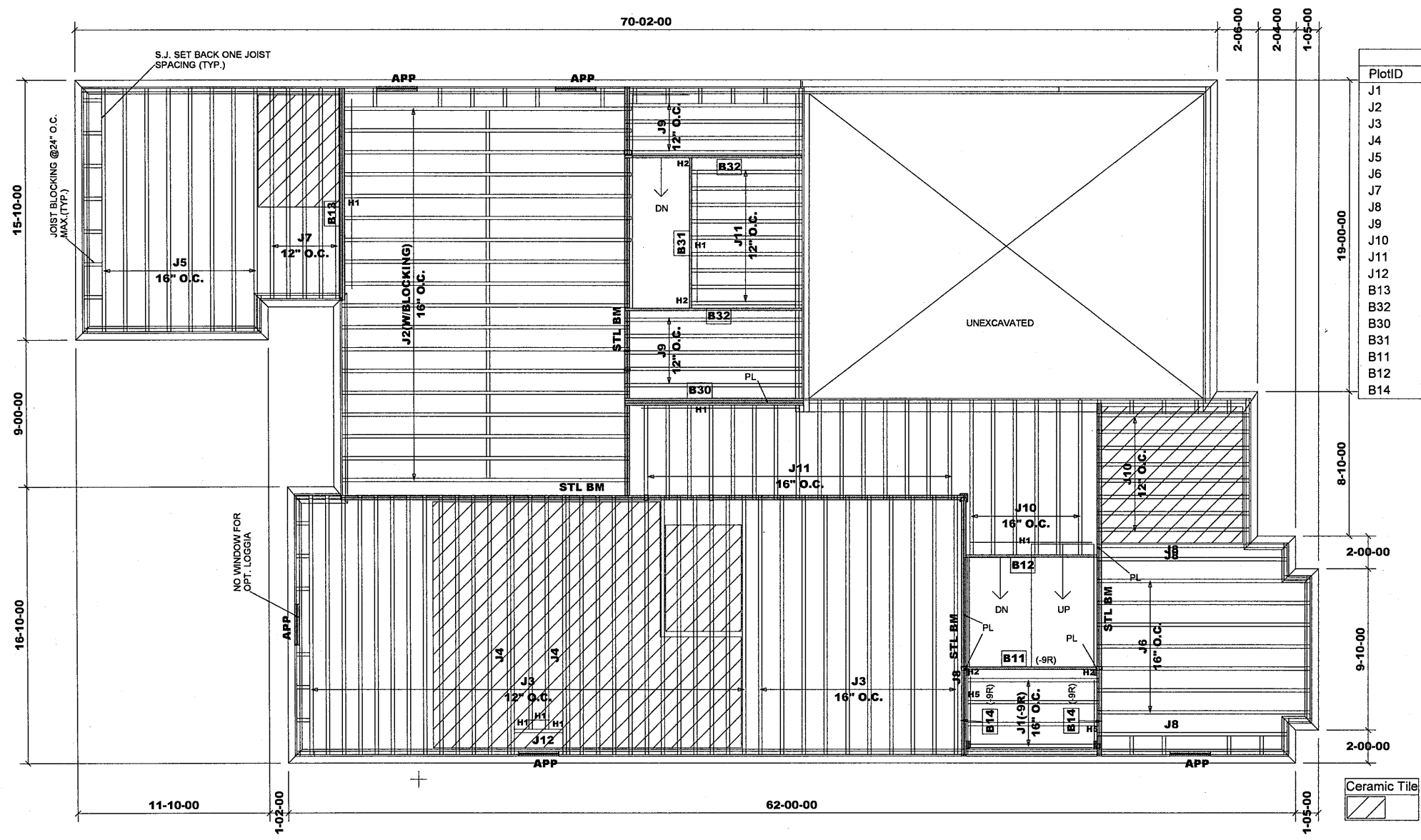
Project: Pine Valley

Date: March 25, 2020

Sheet: 22 of 42

Maple, Ontario

Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	18	FF
J3	16-00-00	11 7/8" NI-20	1	35	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	1	7	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	4	FF
J9	11-00-00	11 7/8" NI-20	1	9	MFD
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	24	MFD
J12	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B32	11-00-00	VERSALAM-12 2.0E	1	2	FF
B30	11-00-00	VERSALAM-12 2.0E	3	3	FF
B31	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H5-----LT259(TM)

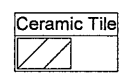
NOTE:  
TM -----TOP MOUNT HANGERS  
FM -----FACE MOUNT HANGERS

RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



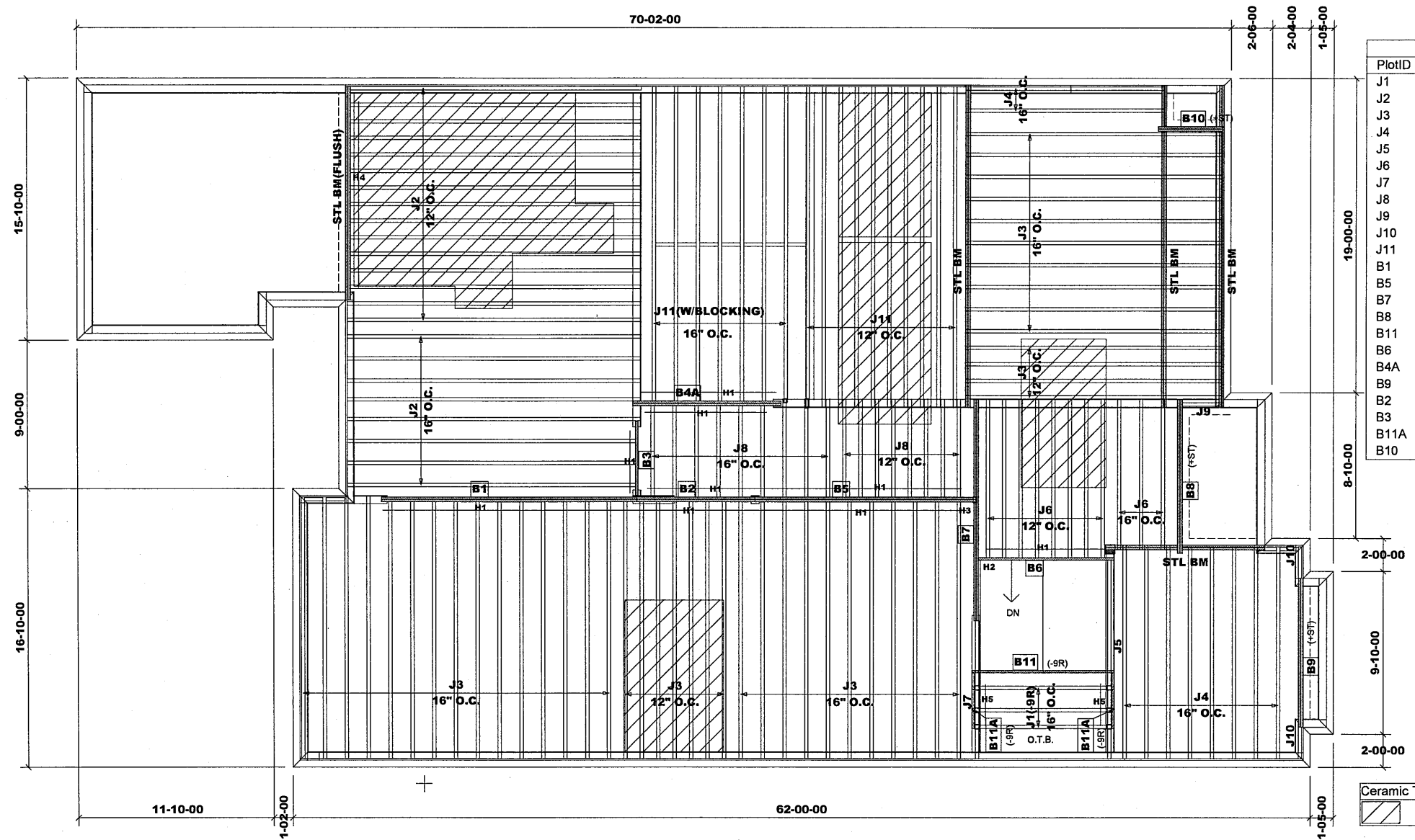
Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR  
+ OPT. LOGGIA & W.O.D.

First Floor Framing

Do not scale - refer to architectural plans for dimensions



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	47	FF
J4	13-00-00	11 7/8" NI-20	1	10	FF
J5	12-00-00	11 7/8" NI-20	1	1	FF
J6	10-00-00	11 7/8" NI-20	1	11	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	17	FF
J9	3-00-00	11 7/8" NI-20	1	1	FF
J10	2-00-00	11 7/8" NI-20	1	2	FF
J11	20-00-00	11 7/8" NI-40x	1	17	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B8	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B9	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B10	4-00-00	VERSALAM-12 2.0E	2	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)

#### NOTE:

TM -----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

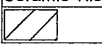
#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic Tile



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR(OPT. 2ND FL.)  
+ OPT. LOGGIA

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

JT/PL: 45147/105729

LI: 318279(290684)

Builder: Gold Park

Project: Pine Valley

Location: Vaughan

Date: March 25, 2020

Designer: NL

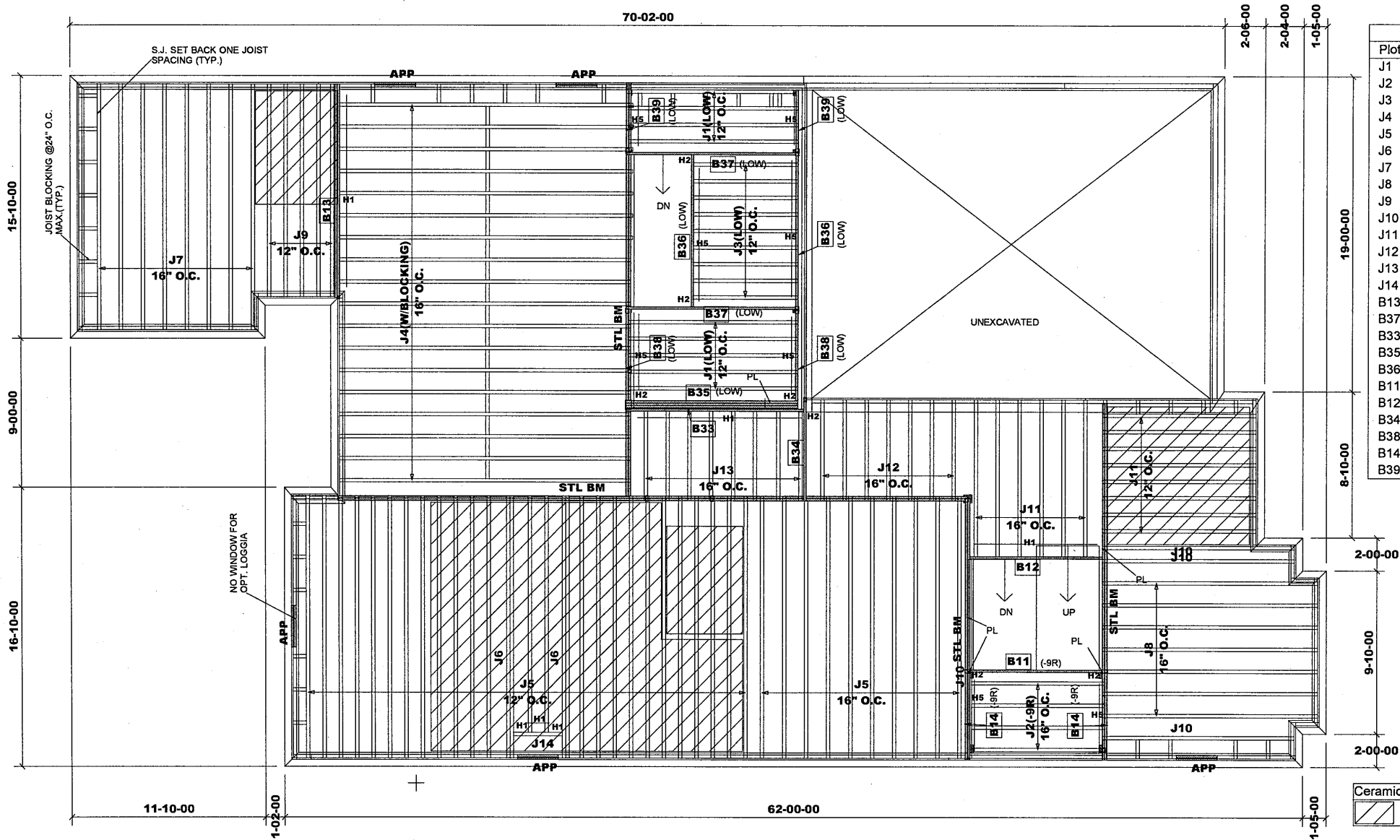
Sheet: 24 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

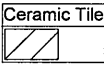
Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	11-00-00	9 1/2" NI-20	1	9	MFD
J2	9-00-00	9 1/2" NI-20	1	4	FF
J3	7-00-00	9 1/2" NI-20	1	9	MFD
J4	18-00-00	11 7/8" NI-20	1	18	FF
J5	16-00-00	11 7/8" NI-20	1	35	FF
J6	16-00-00	11 7/8" NI-20	2	4	FF
J7	15-00-00	11 7/8" NI-20	1	8	FF
J8	14-00-00	11 7/8" NI-20	1	7	FF
J9	13-00-00	11 7/8" NI-20	1	5	FF
J10	12-00-00	11 7/8" NI-20	1	4	FF
J11	10-00-00	11 7/8" NI-20	1	14	FF
J12	7-00-00	11 7/8" NI-20	1	7	FF
J13	6-00-00	11 7/8" NI-20	1	8	FF
J14	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B37	11-00-00	VERSALAM-10 2.0E	1	2	FF
B33	11-00-00	VERSALAM-12 2.0E	1	1	FF
B35	11-00-00	VERSALAM-10 2.0E	3	3	FF
B36	10-00-00	VERSALAM-10 2.0E	1	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B34	7-00-00	VERSALAM-12 2.0E	1	1	FF
B38	6-00-00	VERSALAM-10 2.0E	1	2	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B39	4-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE	
H1-----	LT251188 (TM)
H2-----	HUS1.81/10(FM)
H5-----	LT259(TM)
NOTE:	
TM-----	TOP MOUNT HANGERS
FM-----	FACE MOUNT HANGERS

RIMBOARD	
1- 1/8" X 9 1/2" O.S.B.	
1- 1/8" X 11 7/8" O.S.B.	
SUBFLOOR - 3/4" NAILED & GLUED	
APP - AS PER PLAN	
BBO - BEAM BY OTHERS	



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR(W/SUNKEN)  
+ OPT. LOGGIA & W.O.D.

First Floor Framing

Do not scale - refer to architectural plans for dimensions

JT/PL: 45147/105729  
LI: 318279(290684)

Builder: Gold Park  
Project: Pine Valley

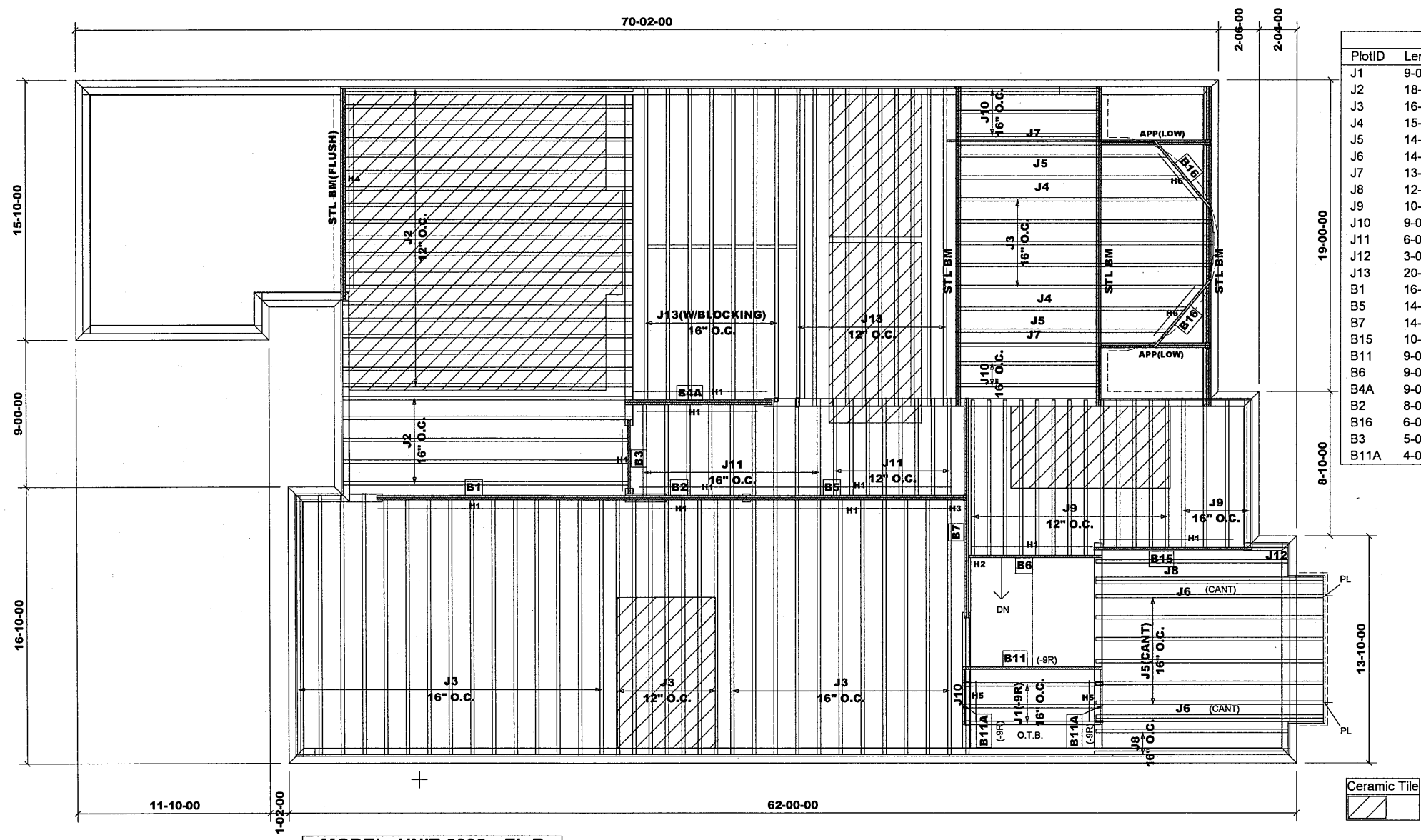
Location: Vaughan  
Date: March 25, 2020

Designer: NL  
Sheet: 25 of 42

Alpa Roof Trusses Inc.  
Maple, Ontario

Salesperson: Derek  
Home Lumber

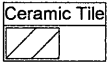




Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	17	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	17	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

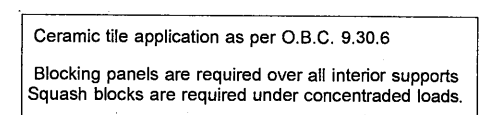
Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B  
W/SERVICE STAIR  
+ OPT. LOGGIA  
+ OPT. SITTING AREA

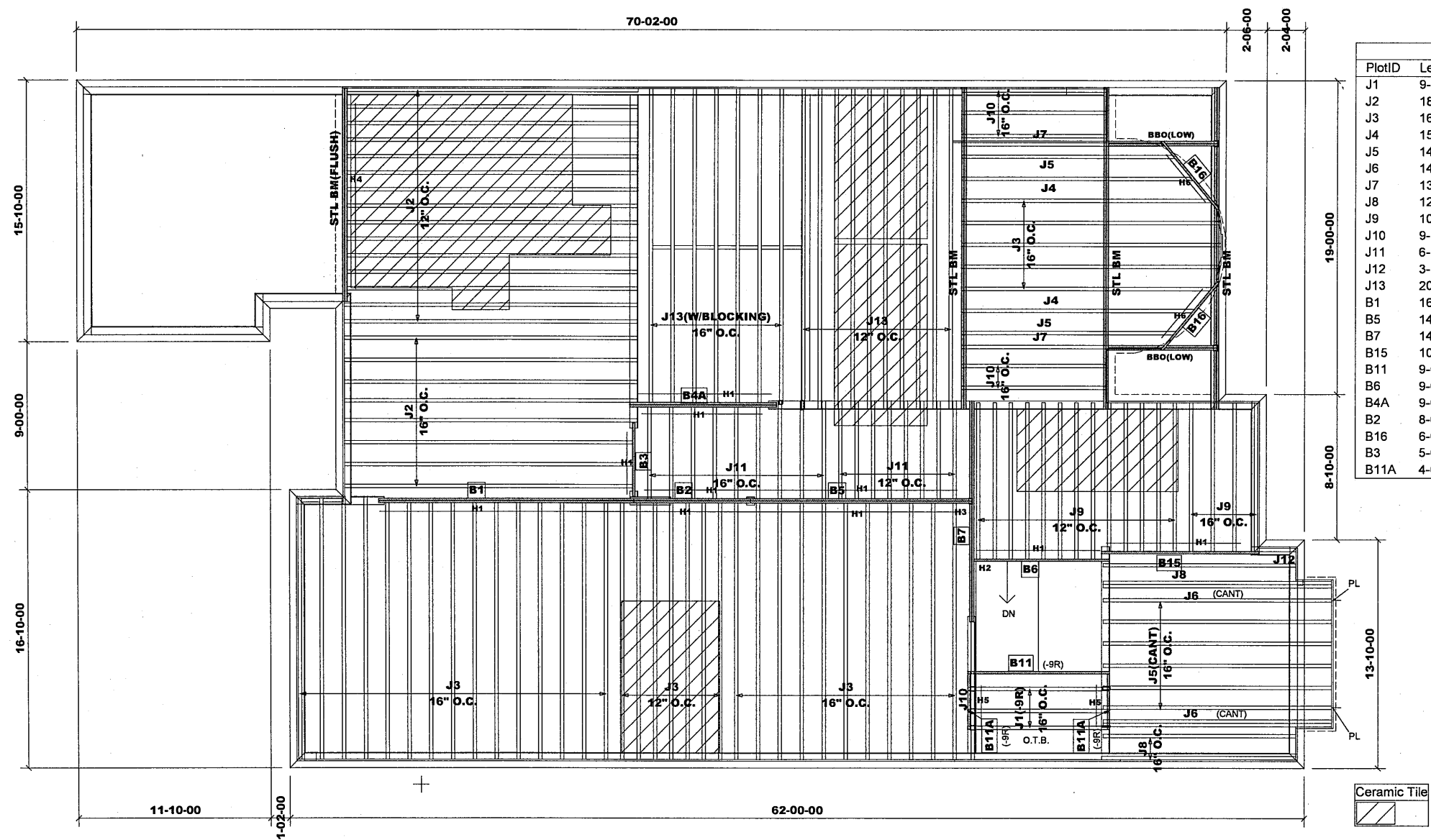
Second Floor Framing

Do not scale - refer to architectural plans for dimensions



## First Floor Framing

Do not scale - refer to architectural plans for dimensions



**MODEL: UNIT 5005 - EL.B**  
**W/SERVICE STAIR(OPT. 2ND FL.)**  
**+ OPT. LOGGIA**

**Second Floor Framing**  
 Do not scale - refer to architectural plans for dimensions

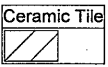
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	23	FF
J3	16'-00"-00	11 7/8" NI-20	1	38	FF
J4	15'-00"-00	11 7/8" NI-20	1	2	FF
J5	14'-00"-00	11 7/8" NI-20	1	8	FF
J6	14'-00"-00	11 7/8" NI-20	2	4	FF
J7	13'-00"-00	11 7/8" NI-20	1	2	FF
J8	12'-00"-00	11 7/8" NI-20	1	3	FF
J9	10'-00"-00	11 7/8" NI-20	1	17	FF
J10	9'-00"-00	11 7/8" NI-20	1	6	FF
J11	6'-00"-00	11 7/8" NI-20	1	17	FF
J12	3'-00"-00	11 7/8" NI-20	1	1	FF
J13	20'-00"-00	11 7/8" NI-40x	1	17	FF
B1	16'-00"-00	VERSALAM-12 2.0E	2	2	FF
B5	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B7	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B15	10'-00"-00	VERSALAM-12 2.0E	1	1	FF
B11	9'-00"-00	VERSALAM-10 2.0E	1	1	FF
B6	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B4A	9'-00"-00	VERSALAM-12 2.0E	2	2	FF
B2	8'-00"-00	VERSALAM-12 2.0E	2	2	FF
B16	6'-00"-00	VERSALAM-12 2.0E	1	2	FF
B3	5'-00"-00	VERSALAM-12 2.0E	1	1	FF
B11A	4'-00"-00	VERSALAM-10 2.0E	1	2	FF

**HANGER SCHEDULE**

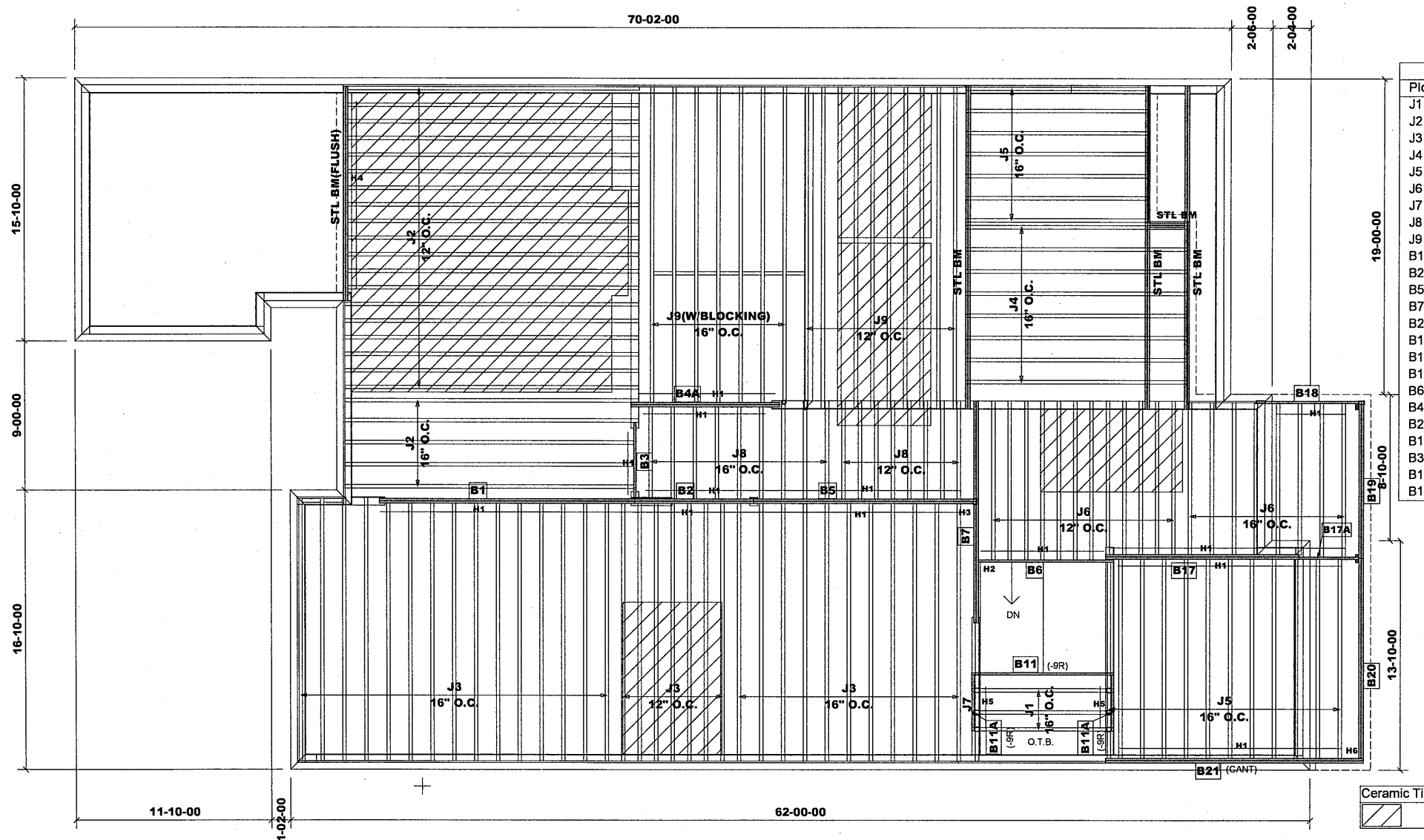
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)

**NOTE:**  
 TM ----- TOP MOUNT HANGERS  
 FM ----- FACE MOUNT HANGERS

**RIMBOARD**  
 1- 1/8" X 9 1/2" O.S.B.  
 1- 1/8" X 11 7/8" O.S.B.  
**SUBFLOOR - 3/4" NAILED & GLUED**  
 APP - AS PER PLAN  
 BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
 Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.  
 Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	8	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	17	FF
J9	20-00-00	11 7/8" NI-40x	1	17	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B18	7-00-00	VERSALAM-12 2.0E	1	1	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	HUC410(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.C  
W/SERVICE STAIR  
+ OPT. LOGGIA  
+ OPT. SITTING AREA

## Second Floor Framing

Do not scale - refer to architectural plans for dimensions

JT/PL: 45147/105729  
LI: 318279(290684)

Builder: Gold Park  
Project: Pine Valley

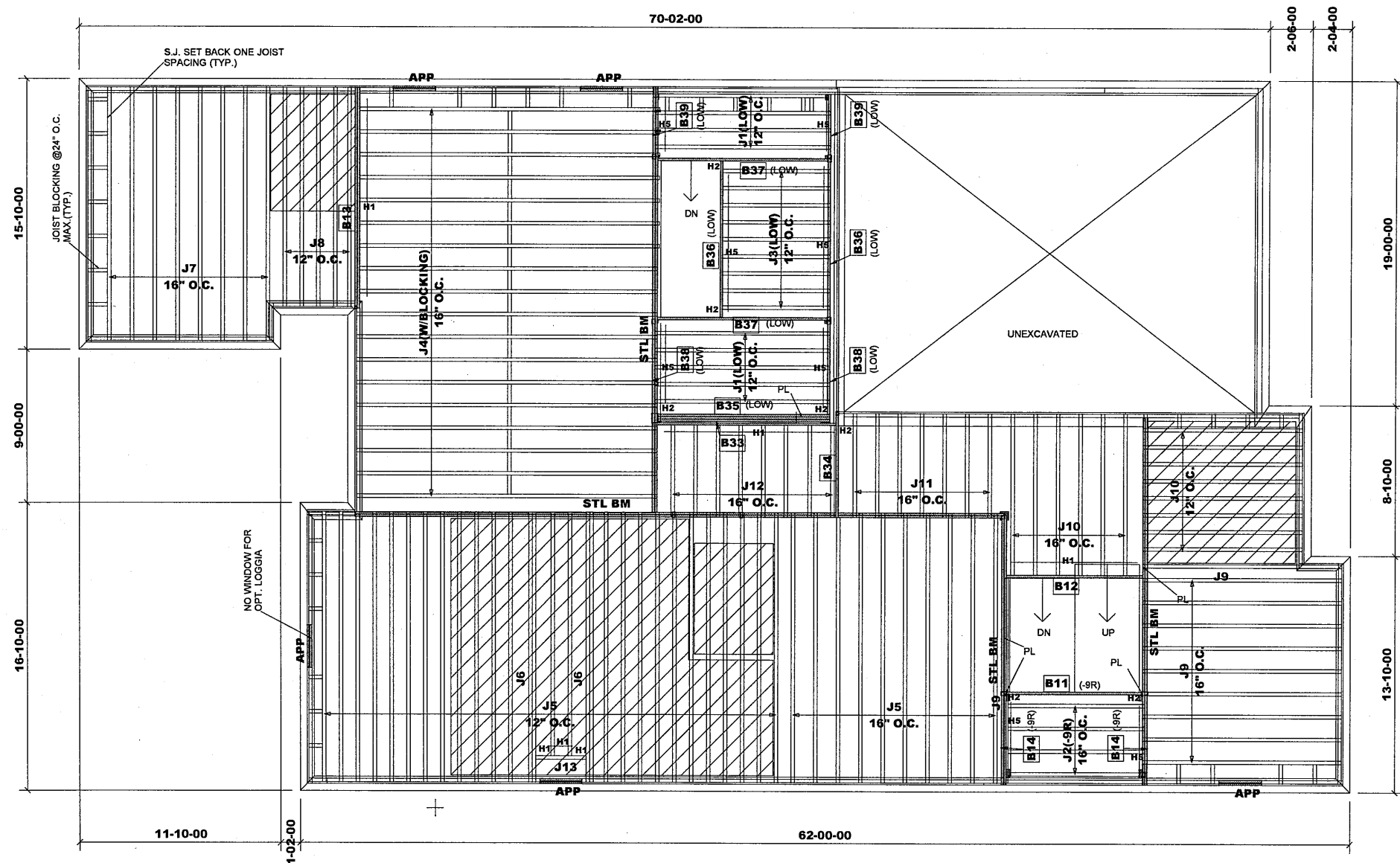
Location: Vaughan  
Date: March 25, 2020

Designer: NL  
Sheet: 29 of 42

Alpa Roof Trusses Inc.  
Maple, Ontario

Salesperson: Derek  
Home Lumber

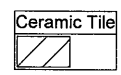




Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	11-00-00	9 1/2" NI-20	1	9	MFD
J2	9-00-00	9 1/2" NI-20	1	4	FF
J3	7-00-00	9 1/2" NI-20	1	9	MFD
J4	18-00-00	11 7/8" NI-20	1	18	FF
J5	16-00-00	11 7/8" NI-20	1	35	FF
J6	16-00-00	11 7/8" NI-20	2	4	FF
J7	15-00-00	11 7/8" NI-20	1	8	FF
J8	13-00-00	11 7/8" NI-20	1	5	FF
J9	12-00-00	11 7/8" NI-20	1	11	FF
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	7	FF
J12	6-00-00	11 7/8" NI-20	1	8	FF
J13	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B37	11-00-00	VERSALAM-10 2.0E	1	2	FF
B33	11-00-00	VERSALAM-12 2.0E	1	1	FF
B35	11-00-00	VERSALAM-10 2.0E	3	3	FF
B36	10-00-00	VERSALAM-10 2.0E	1	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B34	7-00-00	VERSALAM-12 2.0E	1	1	FF
B38	6-00-00	VERSALAM-10 2.0E	1	2	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B39	4-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP - AS PER PLAN	
BBO - BEAM BY OTHERS	



Ceramic tile application as per O.B.C. 9.30.6

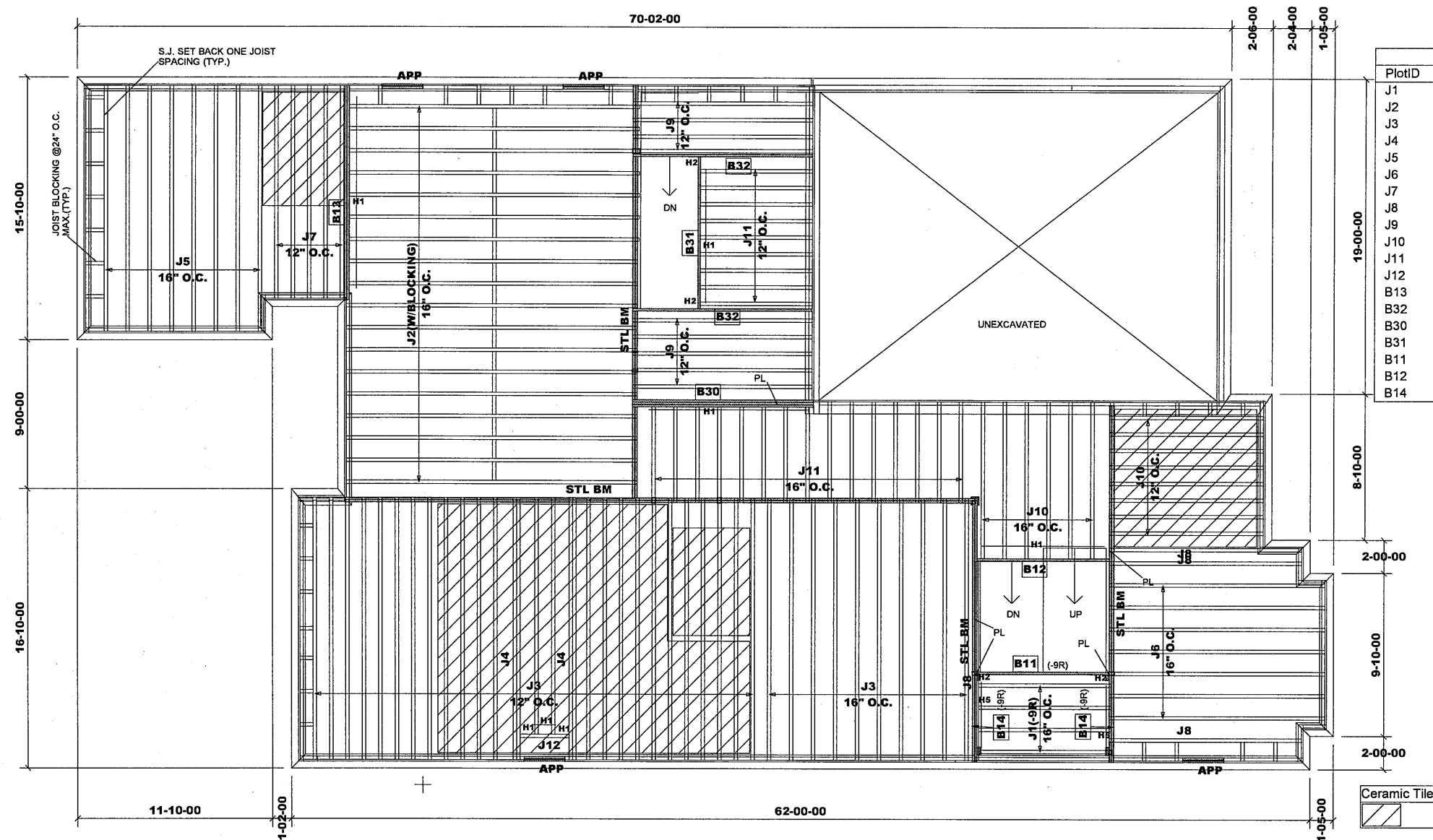
Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B+C  
W/SERVICE STAIR(W/SUNKEN)  
+ OPT. LOGGIA & W.O.D.

First Floor Framing

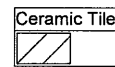
Do not scale - refer to architectural plans for dimensions



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	18	FF
J3	16-00-00	11 7/8" NI-20	1	35	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	1	7	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	4	FF
J9	11-00-00	11 7/8" NI-20	1	9	MFD
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	24	MFD
J12	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B32	11-00-00	VERSALAM-12 2.0E	1	2	FF
B30	11-00-00	VERSALAM-12 2.0E	3	3	FF
B31	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED	
APP	AS PER PLAN
BBO	BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

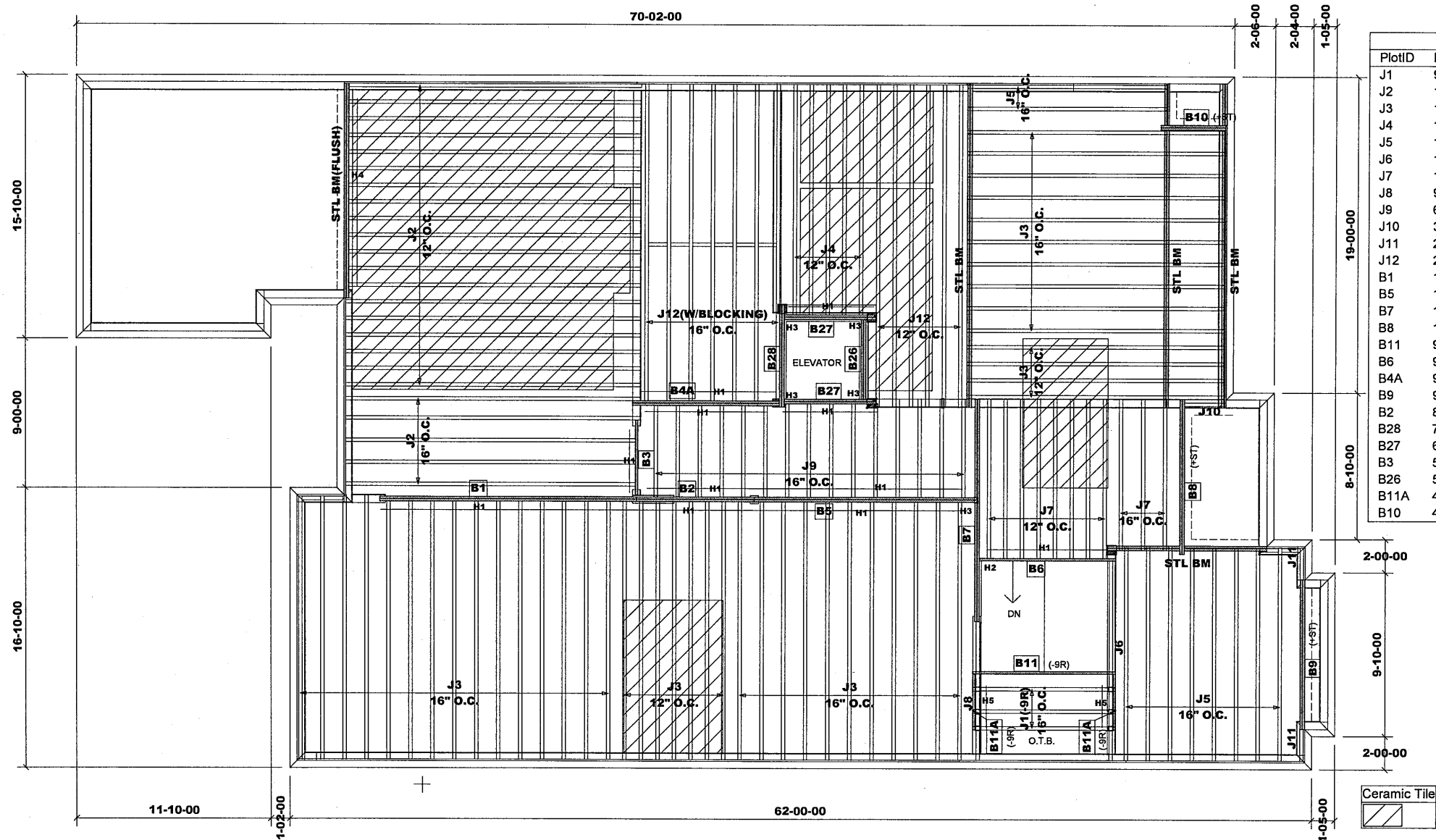
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR  
W/L.O.D. & W.O.B. CONDITION

First Floor Framing

Do not scale - refer to architectural plans for dimensions





**MODEL: UNIT 5005 - EL.A**  
**W/SERVICE STAIR(W/ ELEVATOR)**  
**+ OPT. LOGGIA**

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"	9 1/2" NI-20	1	3	FF
J2	18'-00"	11 7/8" NI-20	1	24	FF
J3	16'-00"	11 7/8" NI-20	1	47	FF
J4	14'-00"	11 7/8" NI-20	1	5	FF
J5	13'-00"	11 7/8" NI-20	1	10	FF
J6	12'-00"	11 7/8" NI-20	1	1	FF
J7	10'-00"	11 7/8" NI-20	1	11	FF
J8	9'-00"	11 7/8" NI-20	1	1	FF
J9	6'-00"	11 7/8" NI-20	1	15	FF
J10	3'-00"	11 7/8" NI-20	1	1	FF
J11	2'-00"	11 7/8" NI-20	1	2	FF
J12	20'-00"	11 7/8" NI-40x	1	13	FF
B1	16'-00"	VERSALAM-12 2.0E	2	2	FF
B5	14'-00"	VERSALAM-12 2.0E	2	2	FF
B7	14'-00"	VERSALAM-12 2.0E	2	2	FF
B8	10'-00"	VERSALAM-12 2.0E	2	2	FF
B11	9'-00"	VERSALAM-10 2.0E	1	1	FF
B6	9'-00"	VERSALAM-12 2.0E	1	1	FF
B4A	9'-00"	VERSALAM-12 2.0E	2	2	FF
B9	9'-00"	VERSALAM-12 2.0E	2	2	FF
B2	8'-00"	VERSALAM-12 2.0E	2	2	FF
B28	7'-00"	VERSALAM-12 2.0E	2	2	FF
B27	6'-00"	VERSALAM-12 2.0E	2	4	FF
B3	5'-00"	VERSALAM-12 2.0E	1	1	FF
B26	5'-00"	VERSALAM-12 2.0E	2	2	FF
B11A	4'-00"	VERSALAM-10 2.0E	1	2	FF
B10	4'-00"	VERSALAM-12 2.0E	2	2	FF

**HANGER SCHEDULE**

H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)

**NOTE:**  
 TM — TOP MOUNT HANGERS  
 FM — FACE MOUNT HANGERS

**RIMBOARD**  
 1- 1/8" X 9 1/2" O.S.B.  
 1- 1/8" X 11 7/8" O.S.B.

**SUBFLOOR - 3/4" NAILED & GLUED**

APP - AS PER PLAN  
 BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

LI: 318279(290684)

Builder: Gold Park

Project: Pine Valley

Location: Vaughan

Date: March 25, 2020

Designer: NL

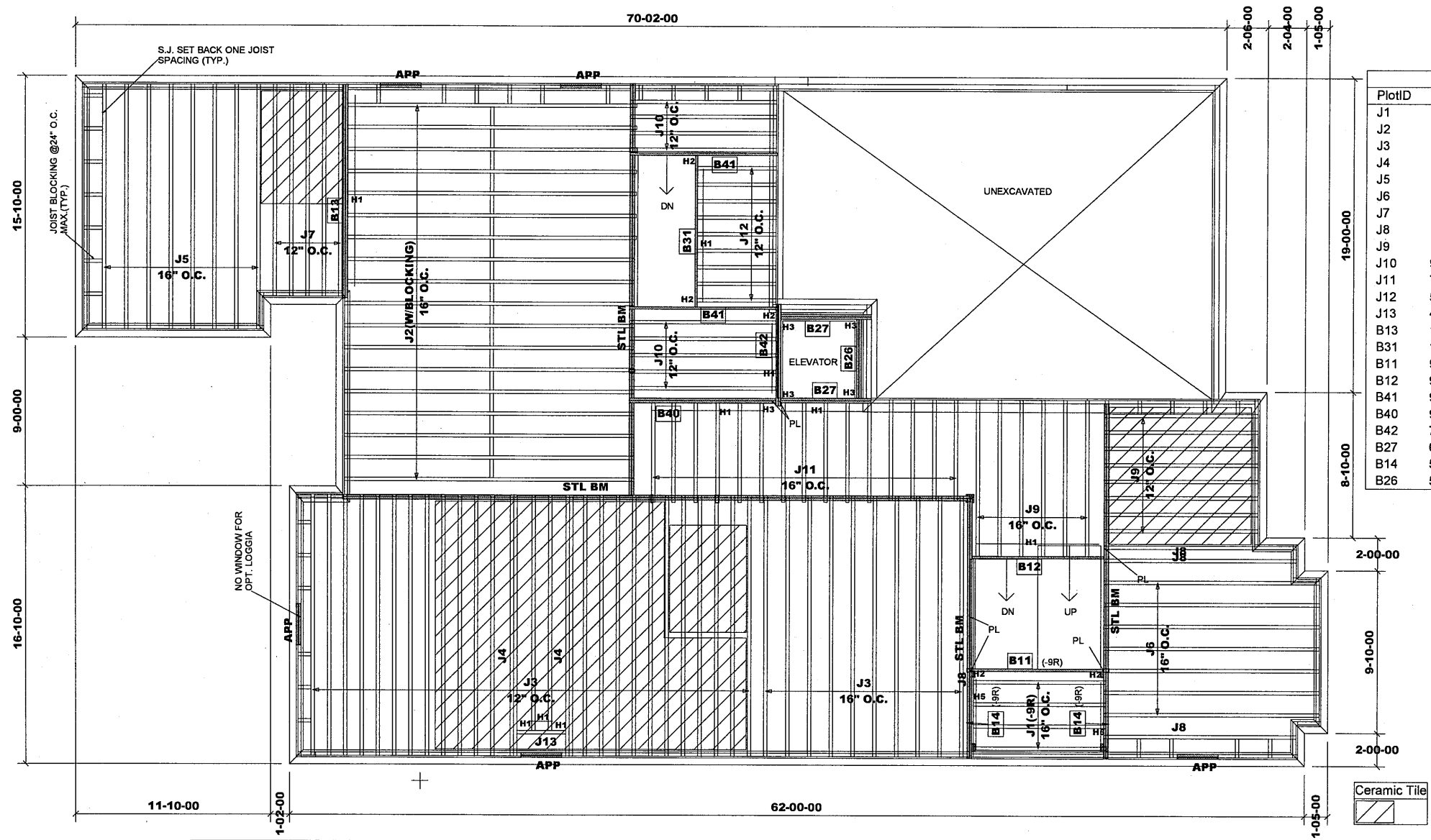
Sheet: 33 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

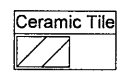
Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	18	FF
J3	16-00-00	11 7/8" NI-20	1	35	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	8	FF
J6	14-00-00	11 7/8" NI-20	1	7	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	4	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	9-00-00	11 7/8" NI-20	1	9	MFD
J11	7-00-00	11 7/8" NI-20	1	15	FF
J12	5-00-00	11 7/8" NI-20	1	9	MFD
J13	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B31	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B41	9-00-00	VERSALAM-12 2.0E	1	2	FF
B40	9-00-00	VERSALAM-12 2.0E	2	2	FF
B42	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H5	LT259(TM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

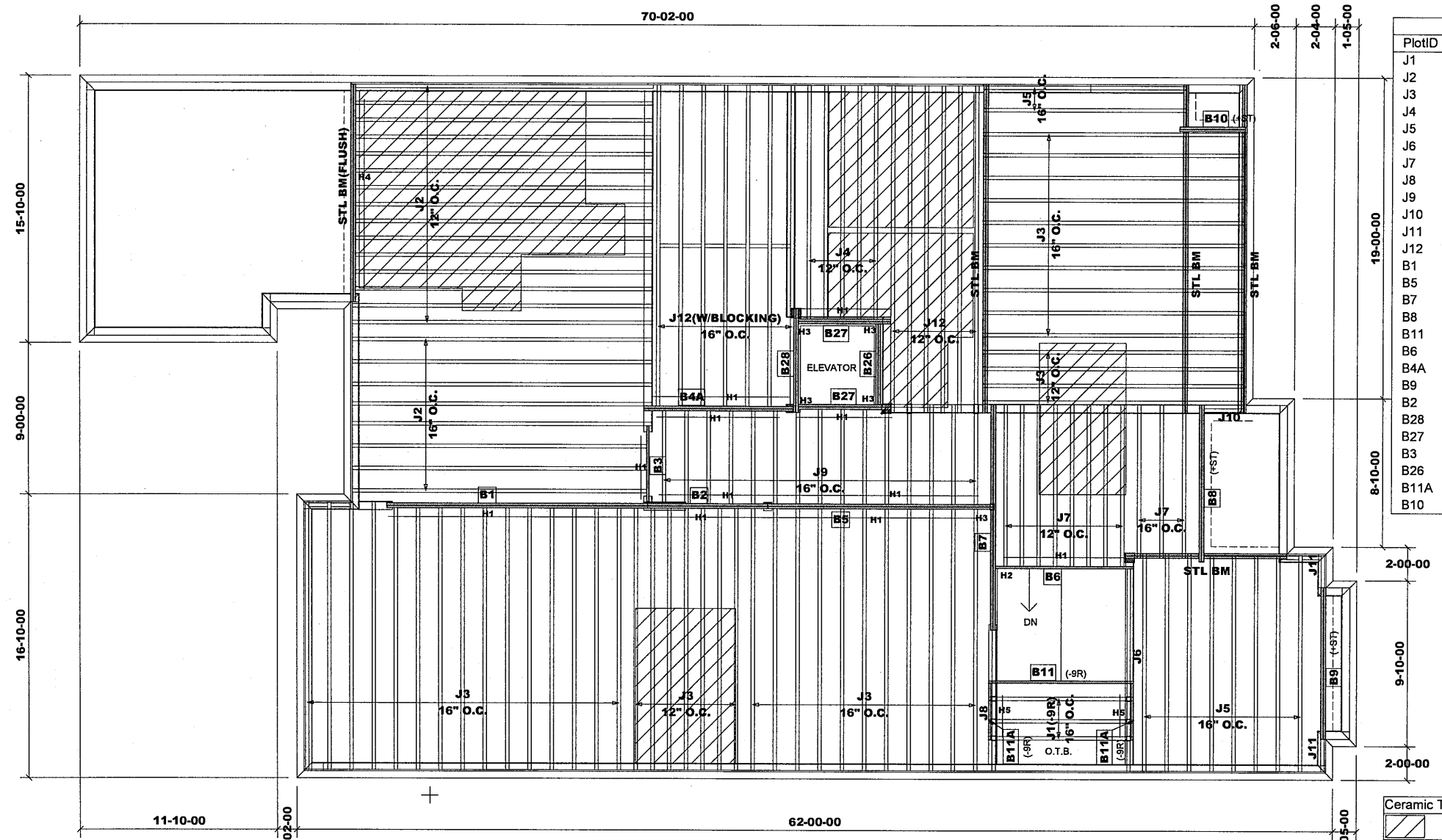
RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR(W/ELEVATOR)  
+ OPT. LOGGIA  
+ W.O.D. CONDITION

First Floor Framing  
Do not scale - refer to architectural plans for dimensions



MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR(W/ ELEVATOR)  
W/OPT. 2ND FLOOR  
+ OPT. LOGGIA

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

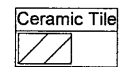
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	47	FF
J4	14-00-00	11 7/8" NI-20	1	5	FF
J5	13-00-00	11 7/8" NI-20	1	10	FF
J6	12-00-00	11 7/8" NI-20	1	1	FF
J7	10-00-00	11 7/8" NI-20	1	11	FF
J8	9-00-00	11 7/8" NI-20	1	1	FF
J9	6-00-00	11 7/8" NI-20	1	15	FF
J10	3-00-00	11 7/8" NI-20	1	1	FF
J11	2-00-00	11 7/8" NI-20	1	2	FF
J12	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B8	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B9	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B10	4-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE

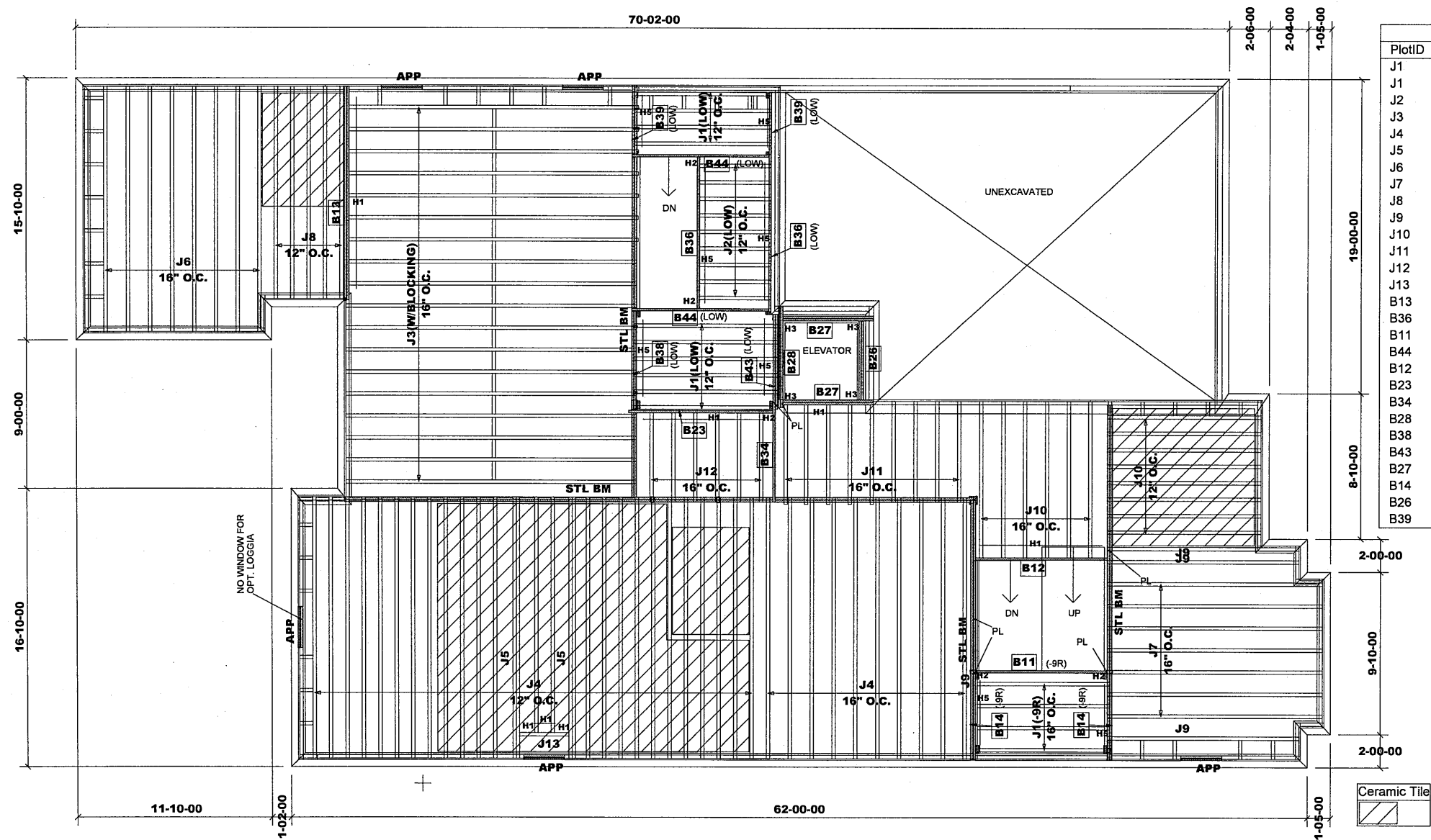
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)

NOTE:  
TM ----- TOP MOUNT HANGERS  
FM ----- FACE MOUNT HANGERS

RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.



MODEL: UNIT 5005 - EL.A  
W/SERVICE STAIR(W/ELEVATOR)  
W/SUNKEN  
+ OPT. LOGGIA & W.O.D.

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J1	9-00-00	9 1/2" NI-20	1	10	MFD
J2	5-00-00	9 1/2" NI-20	1	9	MFD
J3	18-00-00	11 7/8" NI-20	1	18	FF
J4	16-00-00	11 7/8" NI-20	1	35	FF
J5	16-00-00	11 7/8" NI-20	2	4	FF
J6	15-00-00	11 7/8" NI-20	1	8	FF
J7	14-00-00	11 7/8" NI-20	1	7	FF
J8	13-00-00	11 7/8" NI-20	1	5	FF
J9	12-00-00	11 7/8" NI-20	1	4	FF
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	9	FF
J12	6-00-00	11 7/8" NI-20	1	6	FF
J13	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B36	10-00-00	VERSALAM-10 2.0E	1	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B44	9-00-00	VERSALAM-10 2.0E	1	2	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B23	9-00-00	VERSALAM-12 2.0E	1	1	FF
B34	7-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B38	6-00-00	VERSALAM-10 2.0E	1	1	FF
B43	6-00-00	VERSALAM-10 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B39	4-00-00	VERSALAM-10 2.0E	1	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H5-----LT259(TM)

#### NOTE:

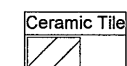
TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

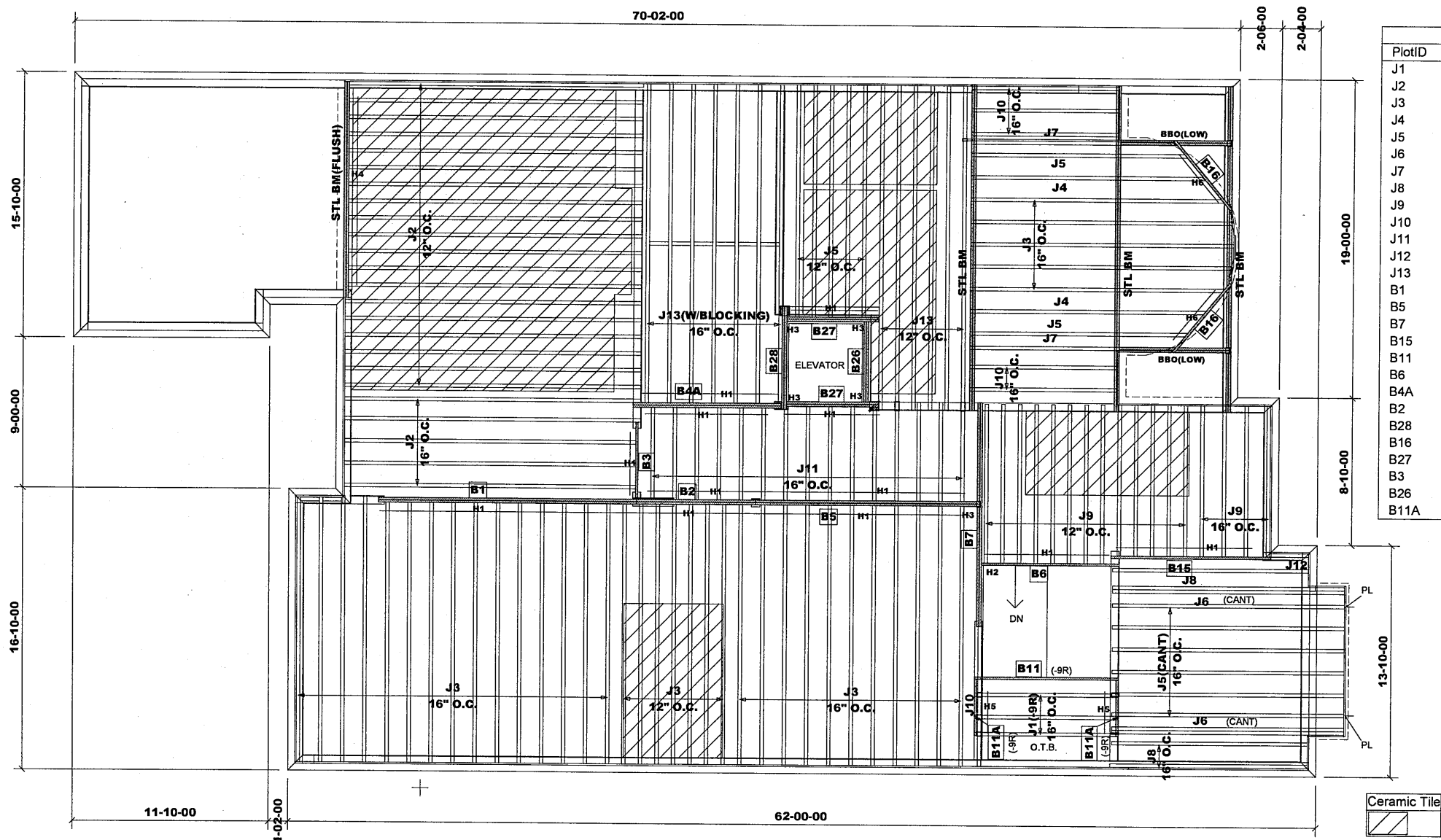
Project: Pine Valley

Date: March 25, 2020

Sheet: 36 of 42

Maple, Ontario

Home Lumber



**MODEL: UNIT 5005 - EL.B**  
**W/SERVICE STAIR(W/ ELEVATOR)**  
**+ OPT. LOGGIA**

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

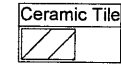
Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	13	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	15	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
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B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

**HANGER SCHEDULE**

H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)

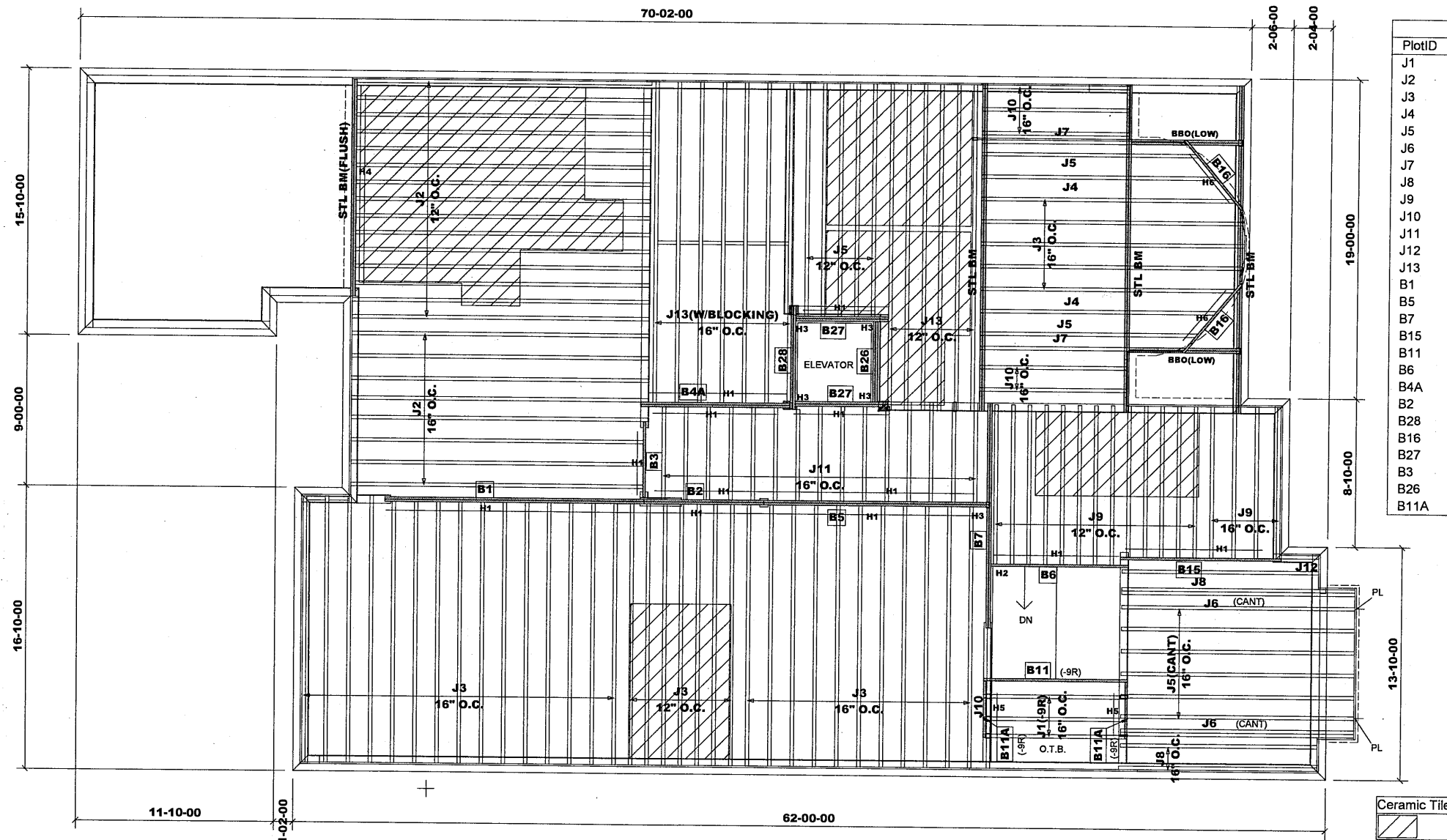
**NOTE:**  
 TM — TOP MOUNT HANGERS  
 FM — FACE MOUNT HANGERS

**RIMBOARD**  
 1- 1/8" X 9 1/2" O.S.B.  
 1- 1/8" X 11 7/8" O.S.B.  
**SUBFLOOR - 3/4" NAILED & GLUED**  
 APP - AS PER PLAN  
 BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
 Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.  
 Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.





**MODEL: UNIT 5005 - EL.B  
W/SERVICE STAIR(W/ ELEVATOR)  
W/OPT. 2ND FLOOR  
+ OPT. LOGGIA**

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	13	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	3	FF
J9	10-00-00	11 7/8" NI-20	1	17	FF
J10	9-00-00	11 7/8" NI-20	1	6	FF
J11	6-00-00	11 7/8" NI-20	1	15	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----LSSUH310(FM)

#### NOTE:

TM -----TOP MOUNT HANGERS  
FM -----FACE MOUNT HANGERS

#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic Tile

Ceramic tile application as per O.B.C. 9.30.6

Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

LI: 318279(290684)

Builder: Gold Park

Project: Pine Valley

Location: Vaughan

Date: March 25, 2020

Designer: NL

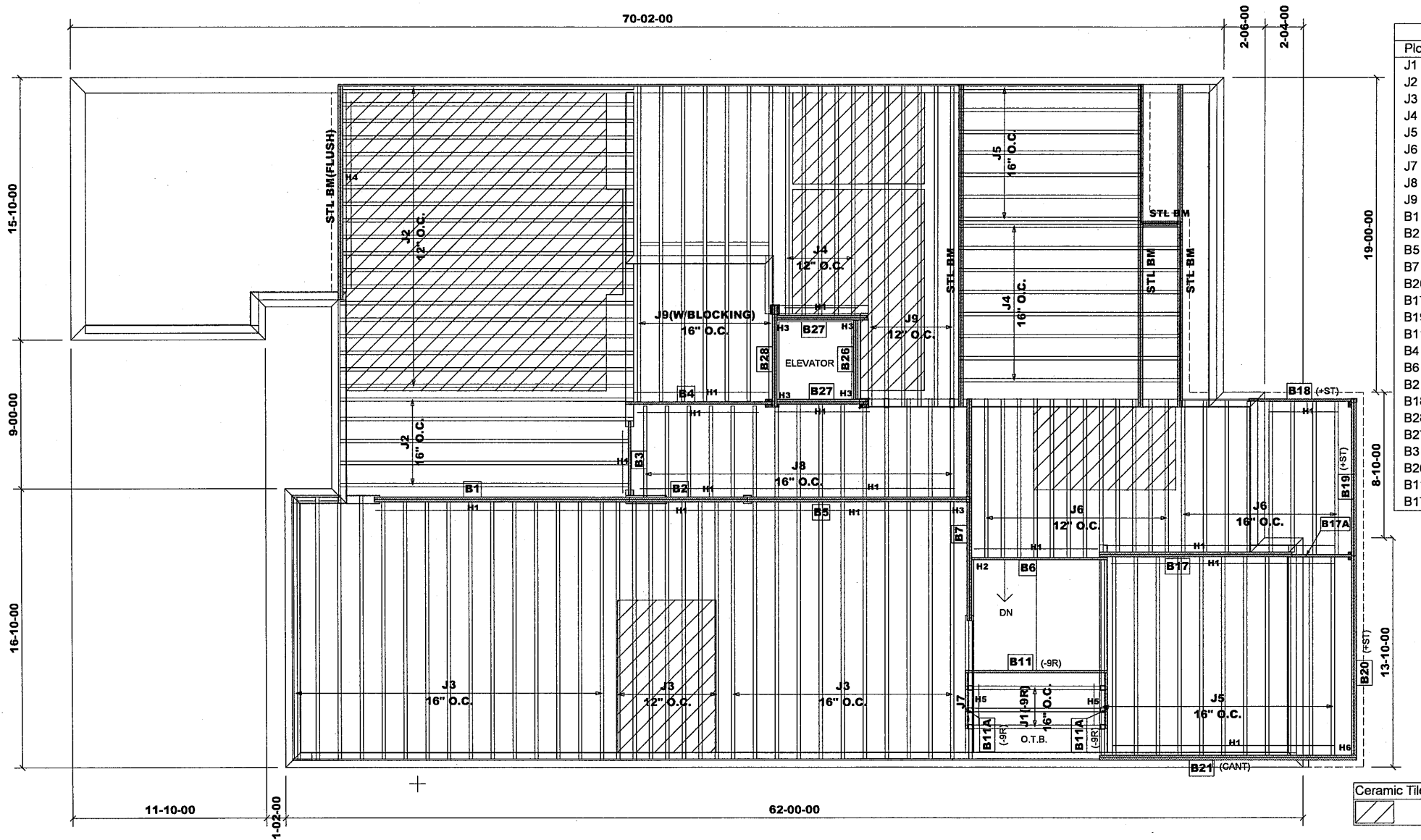
Sheet: 39 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	24	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	13	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	15	FF
J9	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B18	7-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	HUC410(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

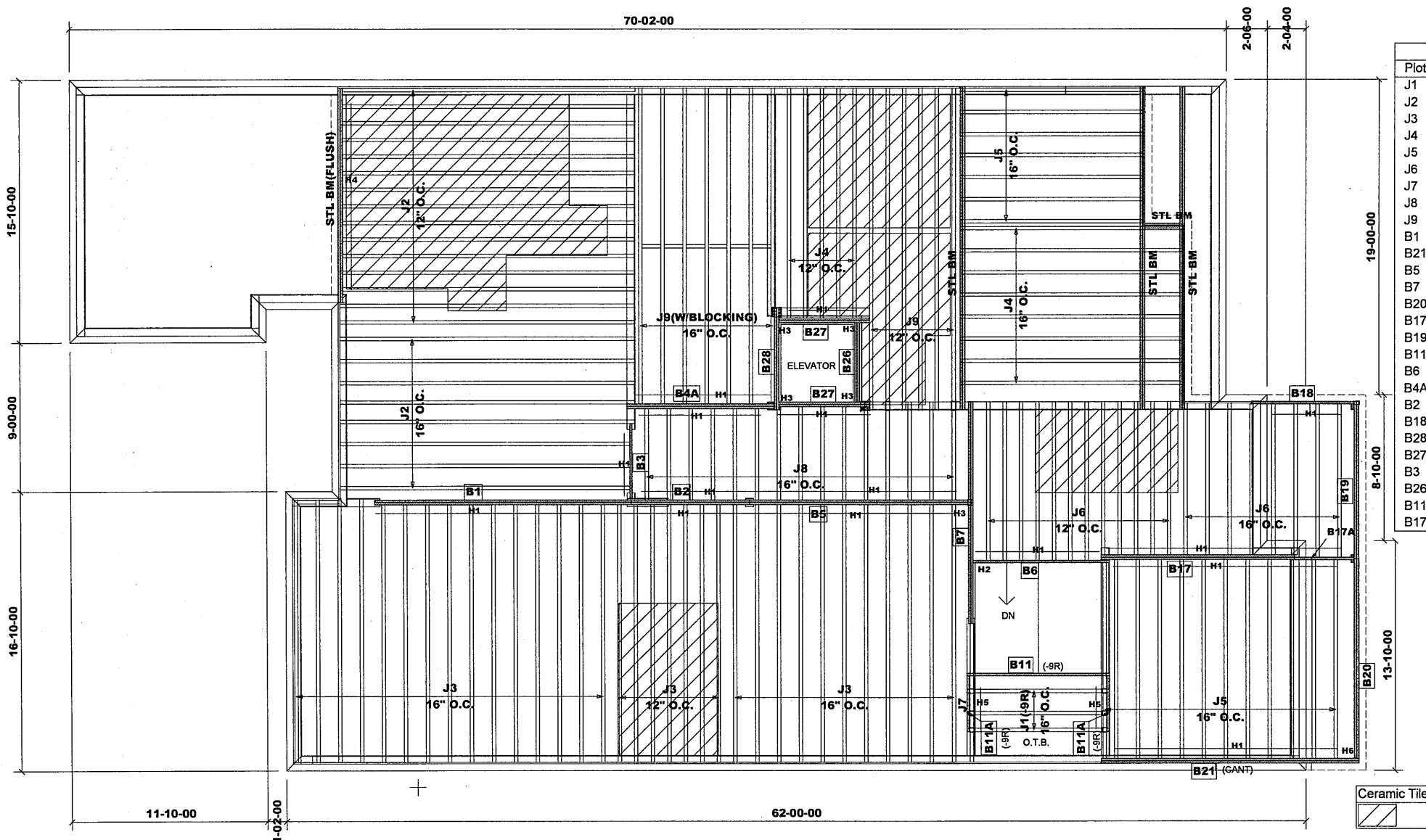
RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.  
SUBFLOOR - 3/4" NAILED & GLUED  
APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6  
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.C  
W/SERVICE STAIR(W/ ELEVATOR)  
+ OPT. LOGGIA

Second Floor Framing  
Do not scale - refer to architectural plans for dimensions





MODEL: UNIT 5005 - EL.C  
W/SERVICE STAIR(W/ ELEVATOR)  
W/OPT. 2ND FLOOR  
+ OPT. LOGGIA

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	33	FF
J4	14-00-00	11 7/8" NI-20	1	13	FF
J5	12-00-00	11 7/8" NI-20	1	19	FF
J6	10-00-00	11 7/8" NI-20	1	20	FF
J7	9-00-00	11 7/8" NI-20	1	1	FF
J8	6-00-00	11 7/8" NI-20	1	15	FF
J9	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B21	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B20	13-00-00	VERSALAM-12 2.0E	2	2	FF
B17	12-00-00	VERSALAM-12 2.0E	2	2	FF
B19	10-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B4A	9-00-00	VERSALAM-12 2.0E	2	2	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B18	7-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF
B17A	4-00-00	VERSALAM-12 2.0E	1	1	FF

HANGER SCHEDULE

- H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----HUC410(FM)  
NOTE:  
TM -----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

RIMBOARD

- 1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

- APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729  
LI: 318279(290684)

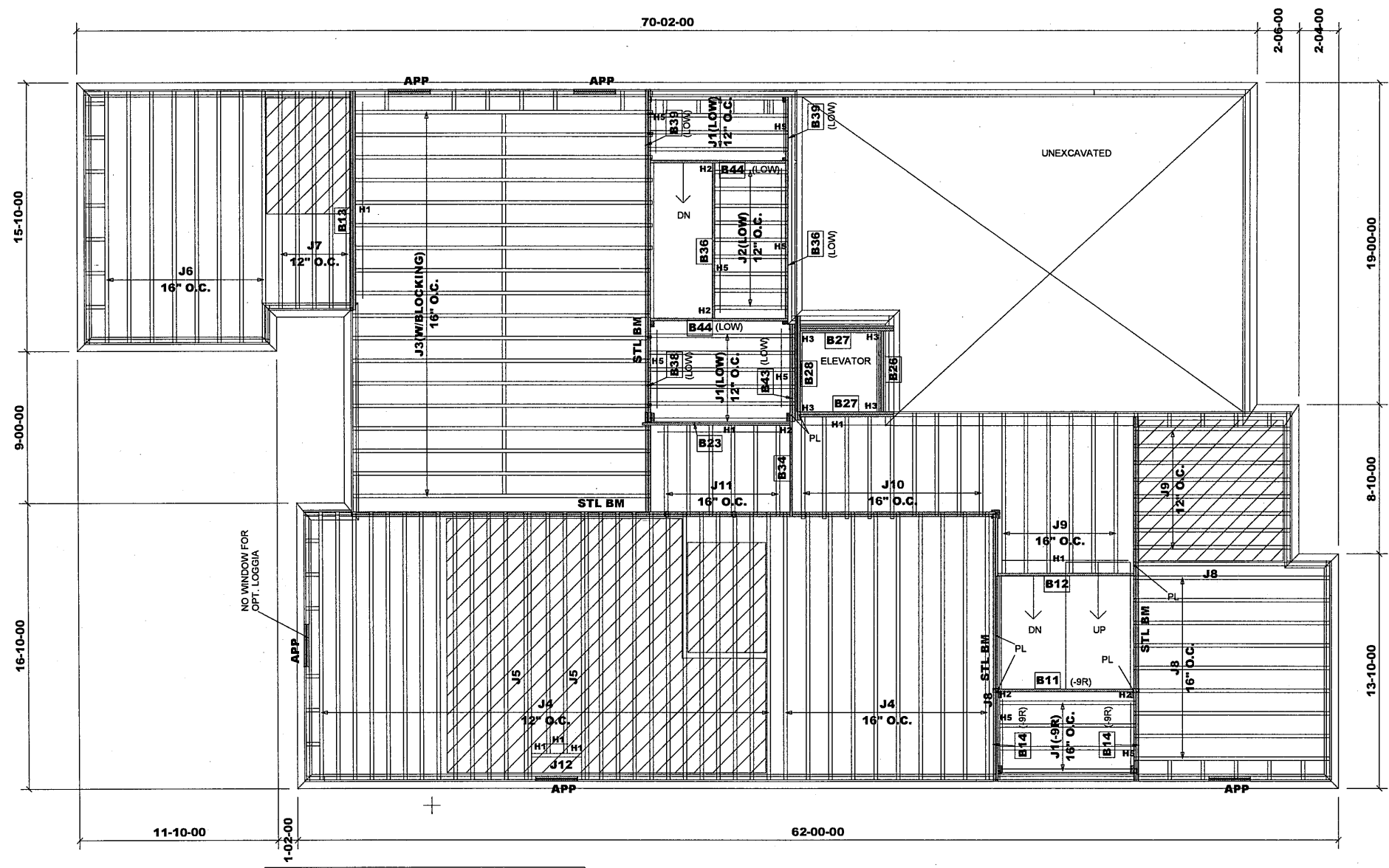
Builder: Gold Park  
Project: Pine Valley

Location: Vaughan  
Date: March 25, 2020

Designer: NL  
Sheet: 41 of 42

Alpa Roof Trusses Inc.  
Maple, Ontario

Salesperson: Derek  
Home Lumber



MODEL: UNIT 5005 - EL.B+C  
W/SERVICE STAIR(W/ELEVATOR)  
W/SUNKEN  
+ OPT. LOGGIA & W.O.D.

First Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J1	9-00-00	9 1/2" NI-20	1	10	MFD
J2	5-00-00	9 1/2" NI-20	1	9	MFD
J3	18-00-00	11 7/8" NI-20	1	18	FF
J4	16-00-00	11 7/8" NI-20	1	35	FF
J5	16-00-00	11 7/8" NI-20	2	4	FF
J6	15-00-00	11 7/8" NI-20	1	8	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	11	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	7-00-00	11 7/8" NI-20	1	9	FF
J11	6-00-00	11 7/8" NI-20	1	6	FF
J12	4-00-00	11 7/8" NI-20	1	1	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B36	10-00-00	VERSALAM-10 2.0E	1	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B44	9-00-00	VERSALAM-10 2.0E	1	2	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B23	9-00-00	VERSALAM-12 2.0E	1	1	FF
B34	7-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B38	6-00-00	VERSALAM-10 2.0E	1	1	FF
B43	6-00-00	VERSALAM-10 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B39	4-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H5-----LT259(TM)

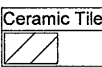
NOTE:  
TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports

Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

LI: 318279(290684)

Builder: Gold Park

Project: Pine Valley

Location: Vaughan

Date: March 25, 2020

Designer: NL

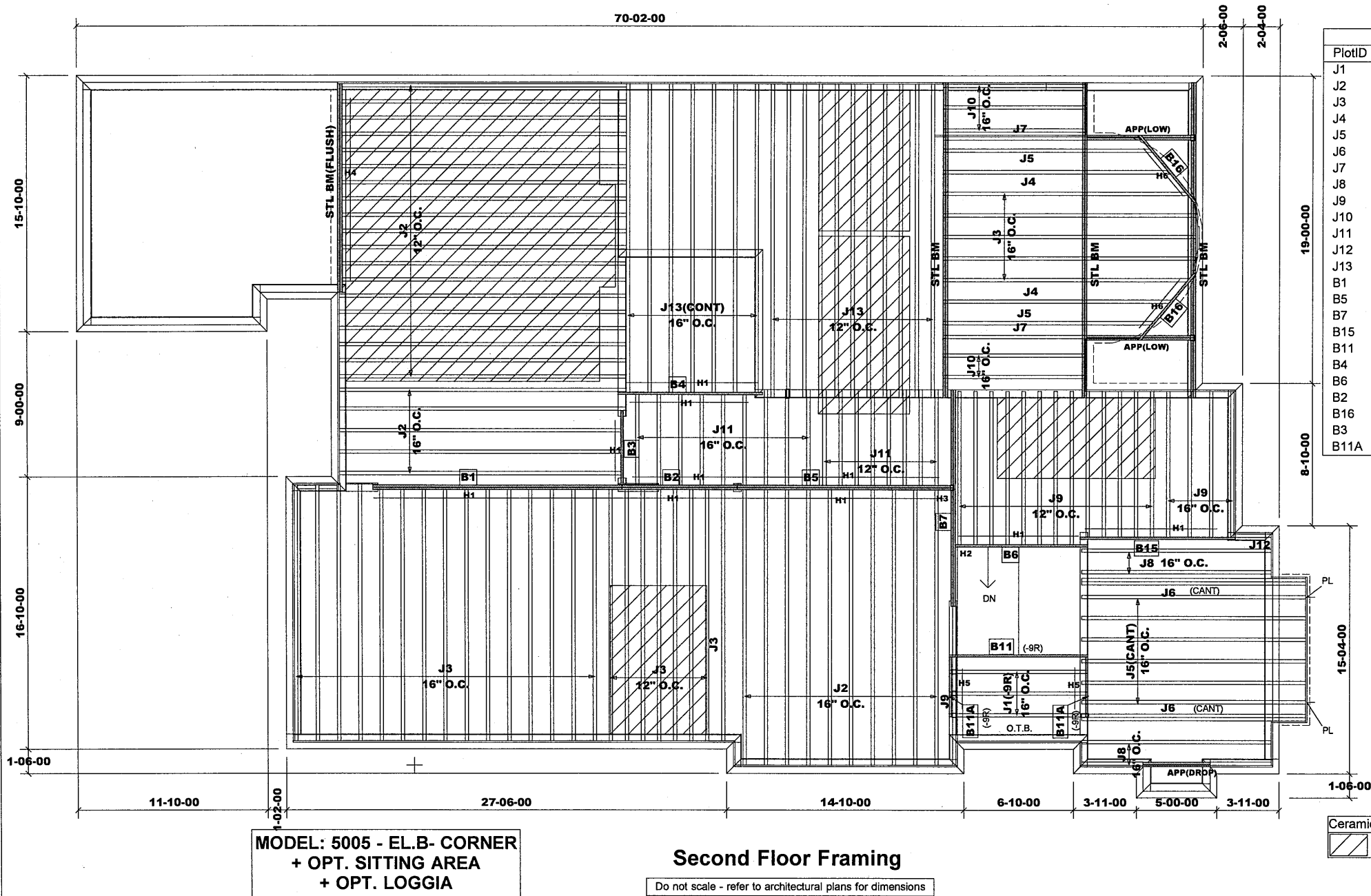
Sheet: 42 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

Home Lumber



Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	34	FF
J3	16'-00"-00	11 7/8" NI-20	1	28	FF
J4	15'-00"-00	11 7/8" NI-20	1	2	FF
J5	14'-00"-00	11 7/8" NI-20	1	8	FF
J6	14'-00"-00	11 7/8" NI-20	2	4	FF
J7	13'-00"-00	11 7/8" NI-20	1	2	FF
J8	12'-00"-00	11 7/8" NI-20	1	4	FF
J9	10'-00"-00	11 7/8" NI-20	1	18	FF
J10	9'-00"-00	11 7/8" NI-20	1	5	FF
J11	6'-00"-00	11 7/8" NI-20	1	17	FF
J12	3'-00"-00	11 7/8" NI-20	1	1	FF
J13	20'-00"-00	11 7/8" NI-40x	1	18	FF
B1	16'-00"-00	VERSALAM-12 2.0E	2	2	FF
B5	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B7	14'-00"-00	VERSALAM-12 2.0E	2	2	FF
B15	10'-00"-00	VERSALAM-12 2.0E	1	1	FF
B11	9'-00"-00	VERSALAM-10 2.0E	1	1	FF
B4	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B6	9'-00"-00	VERSALAM-12 2.0E	1	1	FF
B2	8'-00"-00	VERSALAM-12 2.0E	2	2	FF
B16	6'-00"-00	VERSALAM-12 2.0E	1	2	FF
B3	5'-00"-00	VERSALAM-12 2.0E	1	1	FF
B11A	4'-00"-00	VERSALAM-10 2.0E	1	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----LSSUH310(FM)

#### NOTE:

TM-----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

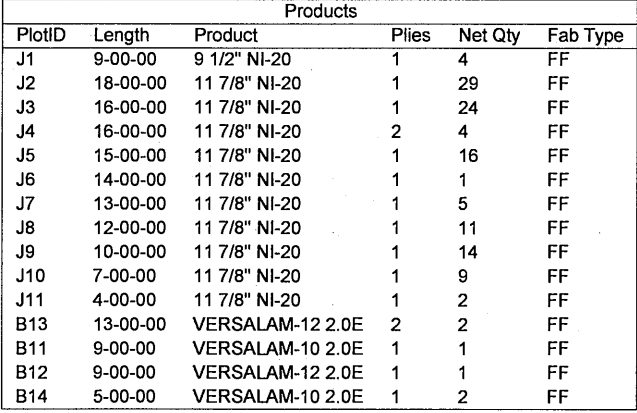
Project: Pine Valley

Date: March 25, 2020

Sheet: 1 of 8

Maple, Ontario

Home Lumber



H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H5-----LT259(TM)

NOTE:  
TM -----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

## RIMBOARD

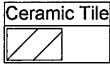
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

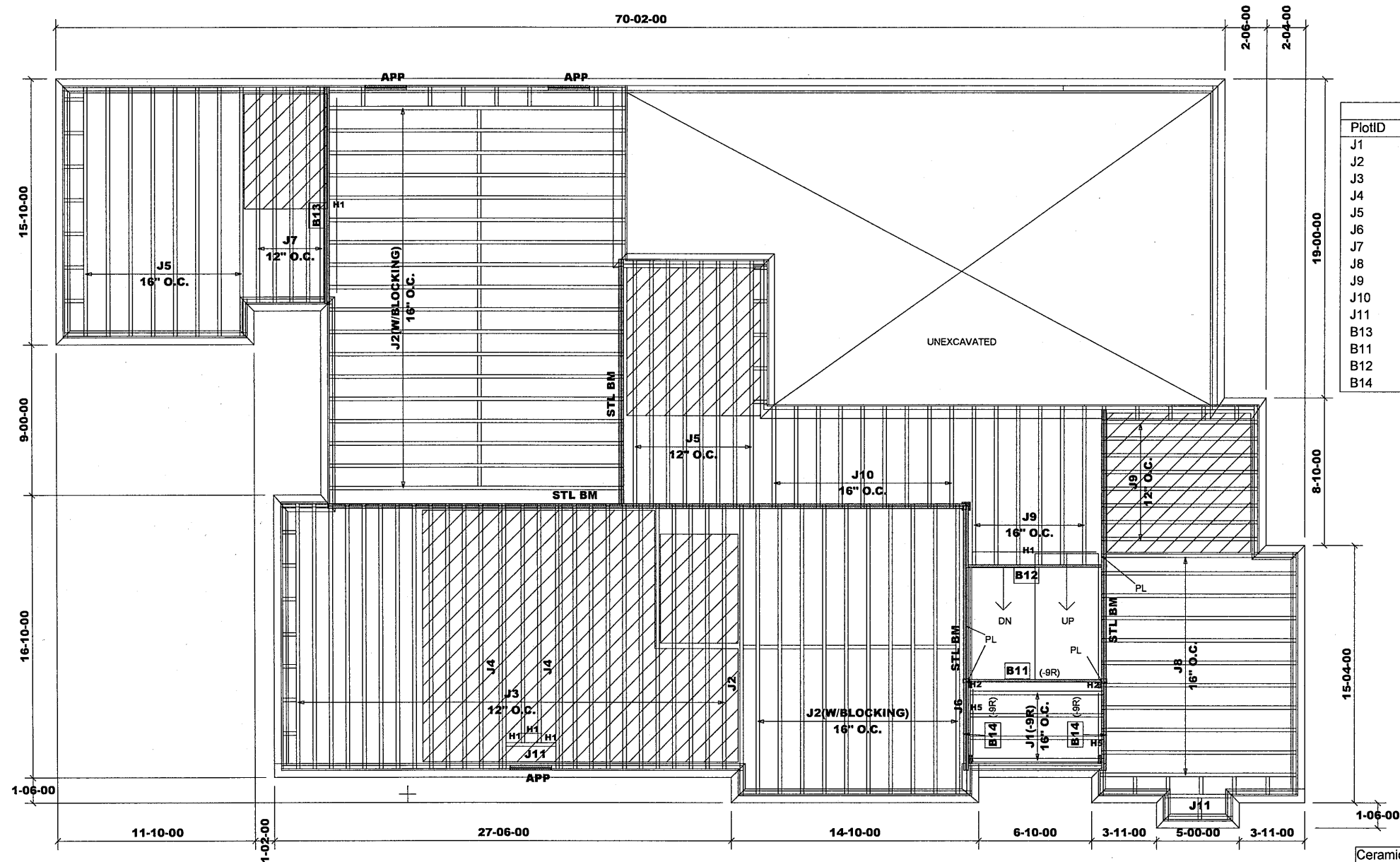
APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads







Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	29	FF
J3	16-00-00	11 7/8" NI-20	1	24	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	16	FF
J6	14-00-00	11 7/8" NI-20	1	1	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	11	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	7-00-00	11 7/8" NI-20	1	9	FF
J11	4-00-00	11 7/8" NI-20	1	2	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF

HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H5-----LT259(TM)

NOTE:  
TM -----TOP MOUNT HANGERS  
FM -----FACE MOUNT HANGERS

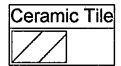
RIMBOARD  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

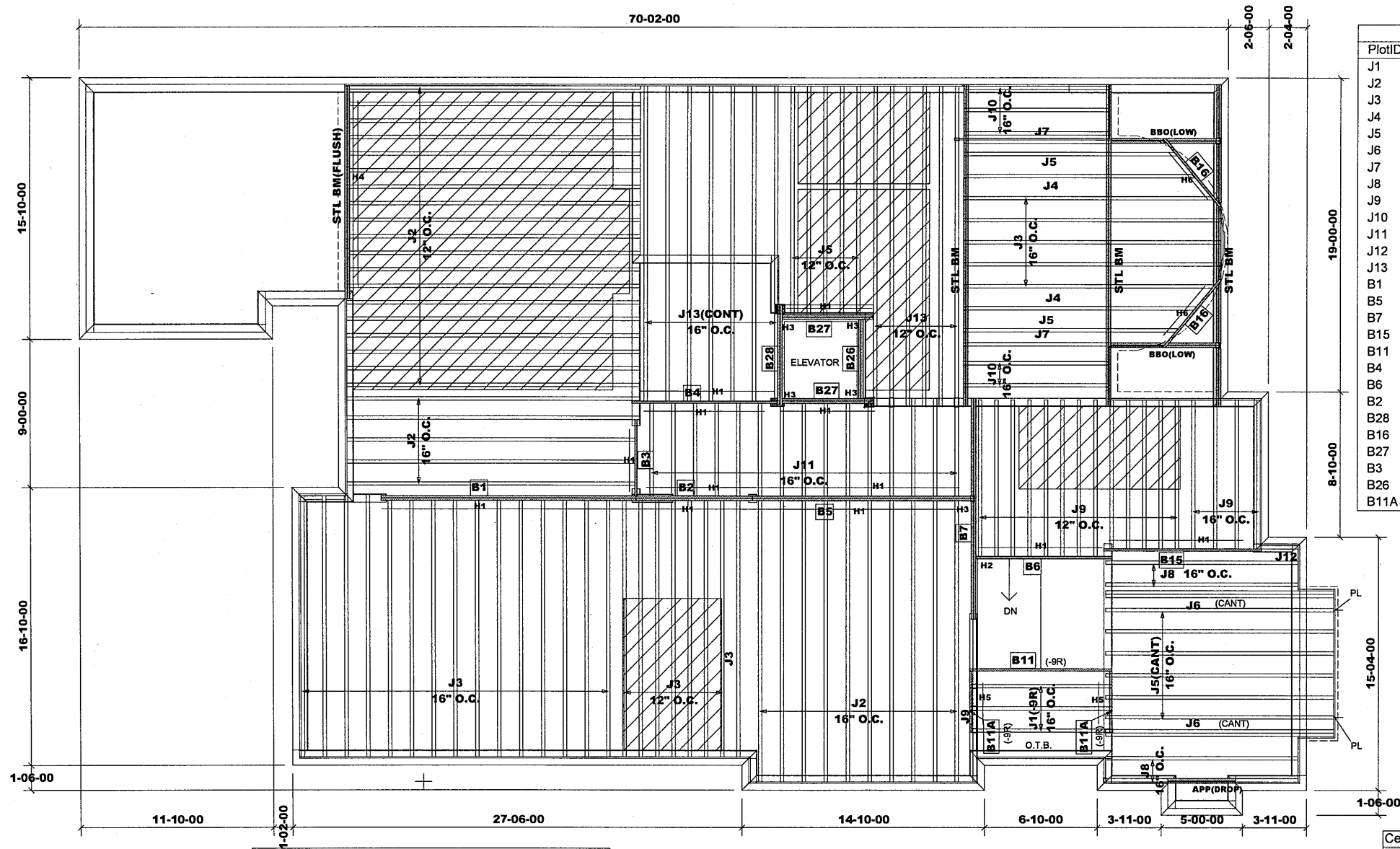
Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.



MODEL: 5005 - EL.B-CORNER  
W/L.O.D. & W.O.B.

First Floor Framing

Do not scale - refer to architectural plans for dimensions



MODEL: 5005 - EL.B - CORNER  
W/ OPT. ELEVATOR  
+OPT. LOGGIA & OPT. SITTING AREA

### Second Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	34	FF
J3	16-00-00	11 7/8" NI-20	1	28	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	13	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	11 7/8" NI-20	1	4	FF
J9	10-00-00	11 7/8" NI-20	1	18	FF
J10	9-00-00	11 7/8" NI-20	1	5	FF
J11	6-00-00	11 7/8" NI-20	1	15	FF
J12	3-00-00	11 7/8" NI-20	1	1	FF
J13	20-00-00	11 7/8" NI-40x	1	13	FF
B1	16-00-00	VERSALAM-12 2.0E	2	2	FF
B5	14-00-00	VERSALAM-12 2.0E	2	2	FF
B7	14-00-00	VERSALAM-12 2.0E	2	2	FF
B15	10-00-00	VERSALAM-12 2.0E	1	1	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B4	9-00-00	VERSALAM-12 2.0E	1	1	FF
B6	9-00-00	VERSALAM-12 2.0E	1	1	FF
B2	8-00-00	VERSALAM-12 2.0E	2	2	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B16	6-00-00	VERSALAM-12 2.0E	1	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B3	5-00-00	VERSALAM-12 2.0E	1	1	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF
B11A	4-00-00	VERSALAM-10 2.0E	1	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H4-----LF259(FM)  
H5-----LT259(TM)  
H6-----LSSUH310(FM)

#### NOTE:

TM -----TOP MOUNT HANGERS  
FM-----FACE MOUNT HANGERS

#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6

Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

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Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

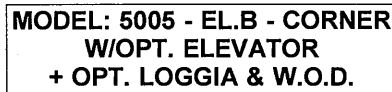
Project: Pine Valley

Date: March 25, 2020

Sheet: 5 of 8

Maple, Ontario

Home Lumber



Do not scale - refer to architectural plans for dimensions

HANGER SCHEDULE	
H1-----	LT251188 (TM)
H2-----	HUS1.81/10(FM)
H3-----	HGUS410(FM)
H5-----	LT259(TM)

NOTE:  
 TM -----TOP MOUNT HANGERS  
 FM -----FACE MOUNT HANGERS

**RIMBOARD**  
1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

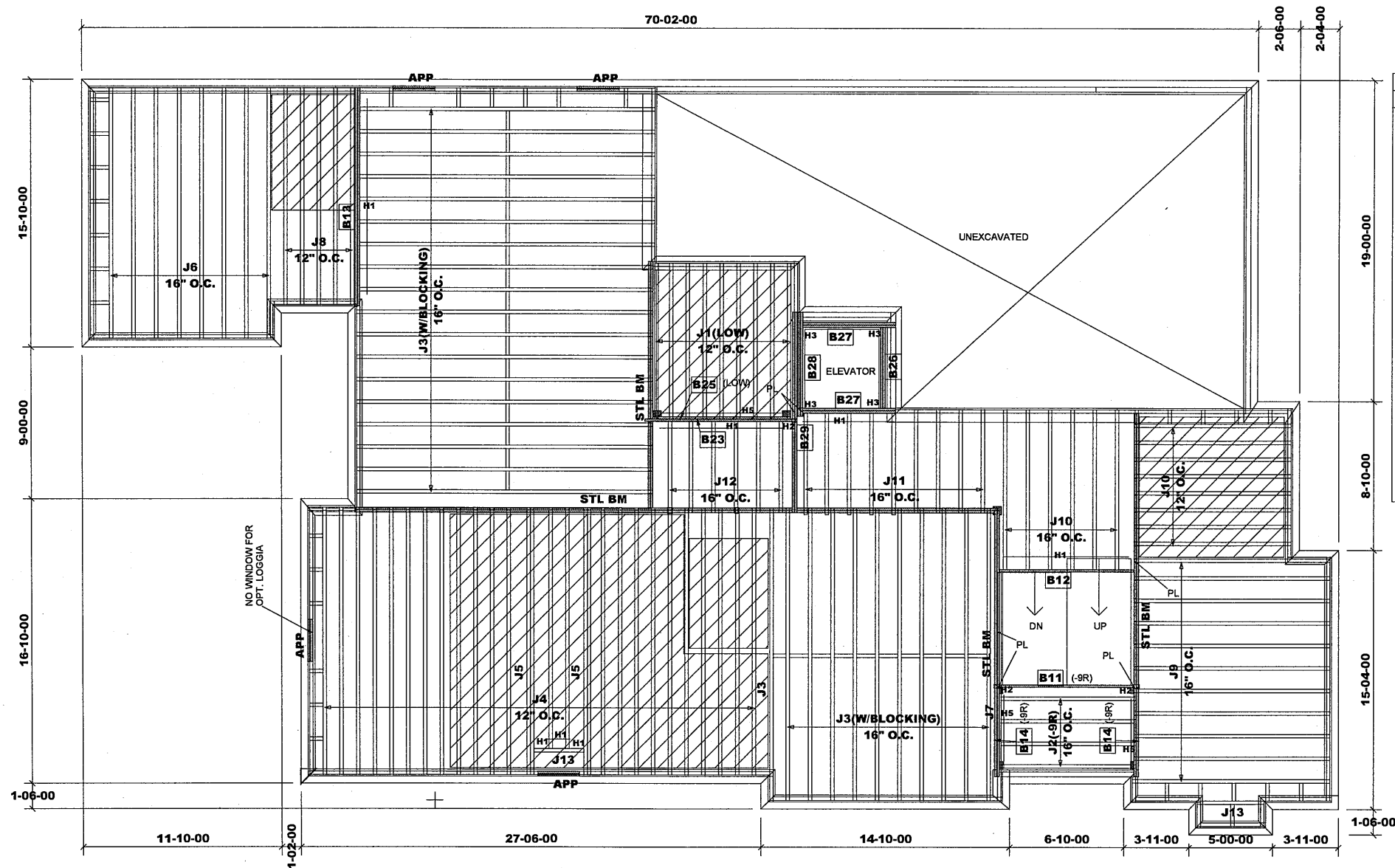
**SUBFLOOR - 3/4" NAILED & GLUED**

**APP - AS PER PLAN**  
**BBO - BEAM BY OTHERS**

Ceramic tile application as per O.B.C. 9.30.6

Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.





**MODEL: 5005 - EL.B - CORNER  
W/OPT. ELEVATOR(SUNKEN)  
+ OPT. LOGGIA & W.O.D.**

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	10-00-00	9 1/2" NI-20	1	9	FF
J2	9-00-00	9 1/2" NI-20	1	4	FF
J3	18-00-00	11 7/8" NI-20	1	29	FF
J4	16-00-00	11 7/8" NI-20	1	24	FF
J5	16-00-00	11 7/8" NI-20	2	4	FF
J6	15-00-00	11 7/8" NI-20	1	8	FF
J7	14-00-00	11 7/8" NI-20	1	1	FF
J8	13-00-00	11 7/8" NI-20	1	5	FF
J9	12-00-00	11 7/8" NI-20	1	11	FF
J10	10-00-00	11 7/8" NI-20	1	14	FF
J11	7-00-00	11 7/8" NI-20	1	9	FF
J12	6-00-00	11 7/8" NI-20	1	6	FF
J13	4-00-00	11 7/8" NI-20	1	2	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B29	12-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B25	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B23	9-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF

#### HANGER SCHEDULE

H1-----LT251188 (TM)  
H2-----HUS1.81/10(FM)  
H3-----HGUS410(FM)  
H5-----LT259(TM)

#### NOTE:

TM -----TOP MOUNT HANGERS  
FM -----FACE MOUNT HANGERS

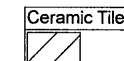
#### RIMBOARD

1- 1/8" X 9 1/2" O.S.B.  
1- 1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED

APP - AS PER PLAN  
BBO - BEAM BY OTHERS

Ceramic tile application as per O.B.C. 9.30.6



Blocking panels are required over all interior supports  
Squash blocks are required under concentrated loads.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

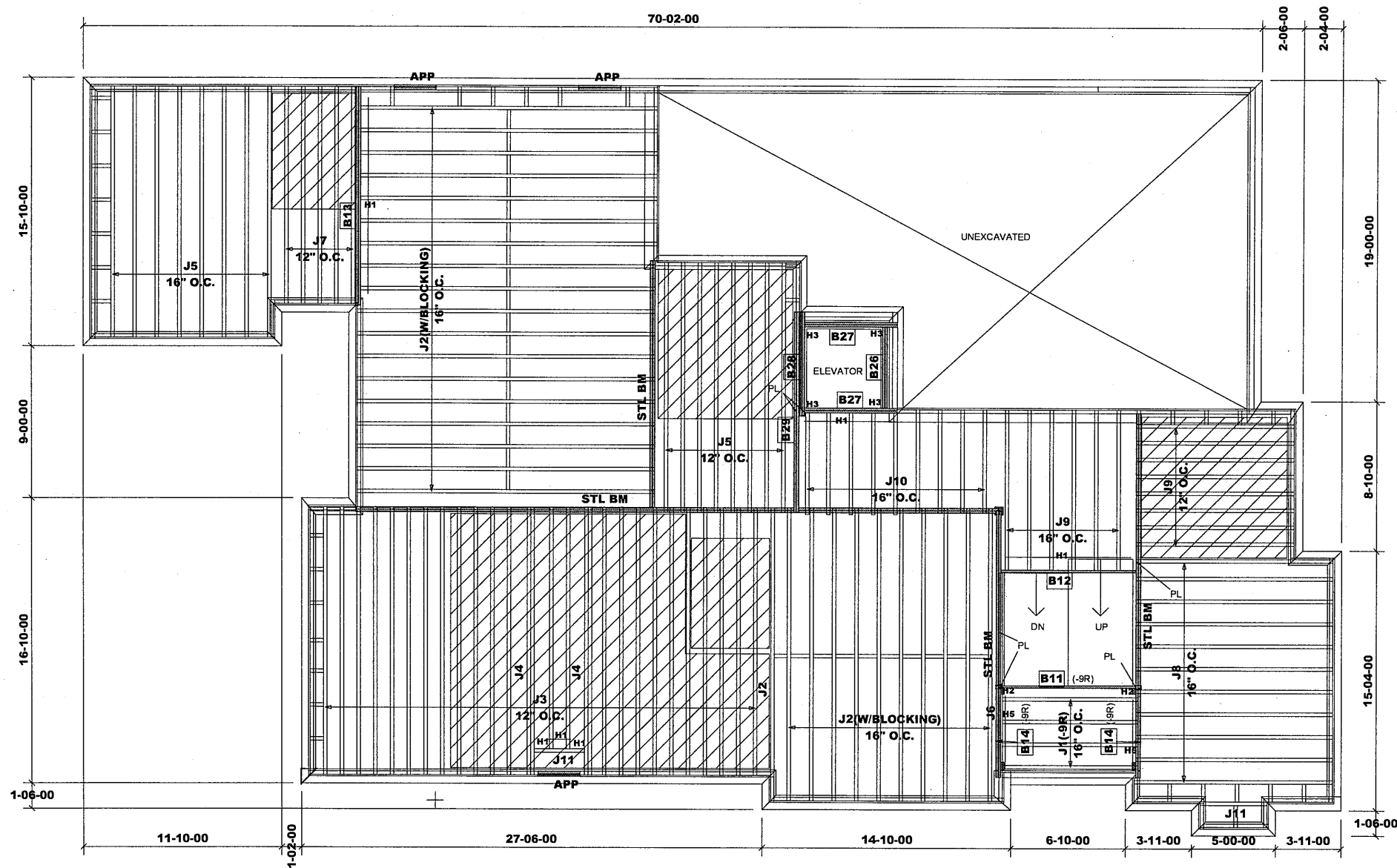
Project: Pine Valley

Date: March 25, 2020

Sheet: 7 of 8

Maple, Ontario

Home Lumber



**MODEL: 5005 - EL.B - CORNER**  
**W/OPT. ELEVATOR**  
**W/L.O.D. & W.O.B.**

### First Floor Framing

Do not scale - refer to architectural plans for dimensions

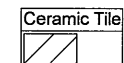
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	4	FF
J2	18-00-00	11 7/8" NI-20	1	29	FF
J3	16-00-00	11 7/8" NI-20	1	24	FF
J4	16-00-00	11 7/8" NI-20	2	4	FF
J5	15-00-00	11 7/8" NI-20	1	16	FF
J6	14-00-00	11 7/8" NI-20	1	1	FF
J7	13-00-00	11 7/8" NI-20	1	5	FF
J8	12-00-00	11 7/8" NI-20	1	11	FF
J9	10-00-00	11 7/8" NI-20	1	14	FF
J10	7-00-00	11 7/8" NI-20	1	9	FF
J11	4-00-00	11 7/8" NI-20	1	2	FF
B13	13-00-00	VERSALAM-12 2.0E	2	2	FF
B29	12-00-00	VERSALAM-12 2.0E	2	2	FF
B11	9-00-00	VERSALAM-10 2.0E	1	1	FF
B12	9-00-00	VERSALAM-12 2.0E	1	1	FF
B28	7-00-00	VERSALAM-12 2.0E	2	2	FF
B27	6-00-00	VERSALAM-12 2.0E	2	4	FF
B14	5-00-00	VERSALAM-10 2.0E	1	2	FF
B26	5-00-00	VERSALAM-12 2.0E	2	2	FF

HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H5	LT259(TM)

NOTE:  
 TM — TOP MOUNT HANGERS  
 FM — FACE MOUNT HANGERS

RIMBOARD	
1-	1/8" X 9 1/2" O.S.B.
1-	1/8" X 11 7/8" O.S.B.

SUBFLOOR - 3/4" NAILED & GLUED  
 APP - AS PER PLAN  
 BBO - BEAM BY OTHERS



Ceramic tile application as per O.B.C. 9.30.6  
 Blocking panels are required over all interior supports  
 Squash blocks are required under concentrated loads.

JT/PL: 45147/105729  
 LI: 318279(290684)

Builder: Gold Park  
 Project: Pine Valley

Location: Vaughan  
 Date: March 25, 2020

Designer: NL  
 Sheet: 8 of 8

Alpa Roof Trusses Inc.  
 Maple, Ontario

Salesperson: Derek  
 Home Lumber

BC CALC® Member Report

## B01 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

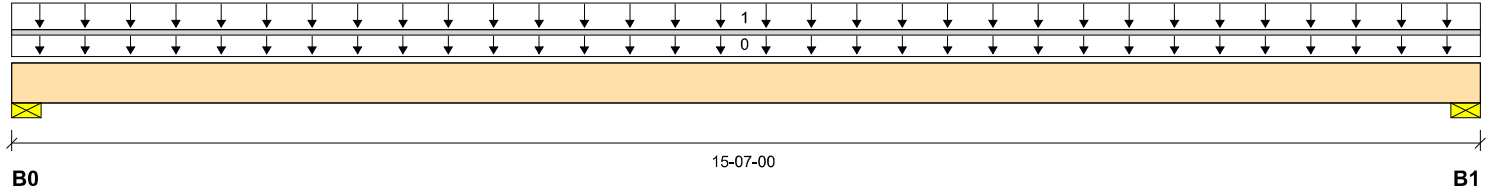
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 15-07-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2708 / 0	1448 / 0		
B1, 3"	2694 / 0	1440 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	15-07-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	15-07-00	Top	40	20			08-08-00

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	21614 ft-lbs	35392 ft-lbs	61.1%	1	07-09-12
End Shear	4910 lbs	14464 lbs	33.9%	1	01-03-06
Total Load Deflection	L/281 (0.648")	n/a	85.5%	4	07-09-12
Live Load Deflection	L/431 (0.423")	n/a	83.6%	5	07-09-12
Max Defl.	0.648"	n/a	64.8%	4	07-09-12
Span / Depth	15.3				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	5873 lbs	77.9%	39.3%	Spruce-Pine-Fir
B1	Wall/Plate 3" x 3-1/2"	5841 lbs	90.4%	45.6%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 10" O/C,  
STAGGERED IN 2 ROWS

BC CALC® Member Report

## B02 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

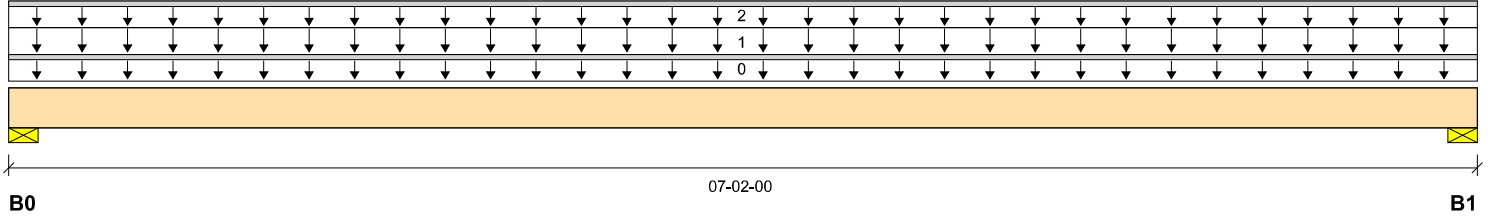
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3"	1577 / 0	1046 / 0		
B1, 3"	1577 / 0	1046 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	07-02-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	07-02-00	Top	40	20			11-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	07-02-00	Top		60			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	5910 ft-lbs	35392 ft-lbs	16.7%	1	03-07-00
End Shear	2402 lbs	14464 lbs	16.6%	1	01-02-14
Total Load Deflection	L/999 (0.036")	n/a	n/a	4	03-07-00
Live Load Deflection	L/999 (0.022")	n/a	n/a	5	03-07-00
Max Defl.	0.036"	n/a	n/a	4	03-07-00
Span / Depth	6.9				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3" x 3-1/2"	3673 lbs	56.9%	28.7%	Spruce-Pine-Fir
B1	Wall/Plate 3" x 3-1/2"	3673 lbs	56.9%	28.7%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 10" O/C,  
STAGGERED IN 2 ROWS



## B03 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

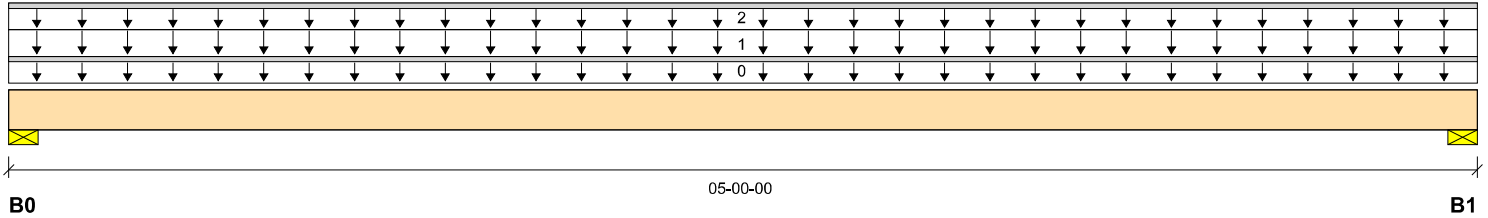
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	967 / 0	648 / 0		
B1, 3-1/2"	967 / 0	648 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	05-00-00	Top	40	20			09-08-00
2		Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top		60			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	2331 ft-lbs	17696 ft-lbs	13.2%	1	02-06-00
End Shear	1102 lbs	7232 lbs	15.2%	1	01-03-06
Total Load Deflection	L/999 (0.013")	n/a	n/a	4	02-06-00
Live Load Deflection	L/999 (0.008")	n/a	n/a	5	02-06-00
Max Defl.	0.013"	n/a	n/a	4	02-06-00
Span / Depth	4.6				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2260 lbs	60.0%	30.3%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2260 lbs	60.0%	30.3%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

## Disclosure

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

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

SE007864

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B04 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

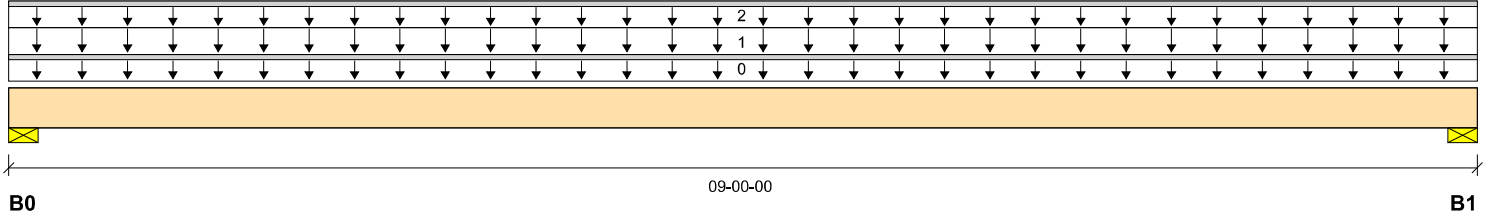
File name: 318279

Description: Second Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1350 / 0	803 / 0		
B1, 3-1/2"	1350 / 0	803 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top	40	15			07-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		60			n\A

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	6139 ft-lbs	17696 ft-lbs	34.7%	1	04-06-00
End Shear	2167 lbs	7232 lbs	30.0%	1	01-03-06
Total Load Deflection	L/999 (0.117")	n\A	n\A	4	04-06-00
Live Load Deflection	L/999 (0.074")	n\A	n\A	5	04-06-00
Max Defl.	0.117"	n\A	n\A	4	04-06-00
Span / Depth	8.6				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3029 lbs	80.4%	40.5%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	3029 lbs	80.4%	40.5%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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

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

SE007865



BC CALC® Member Report

B4A (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

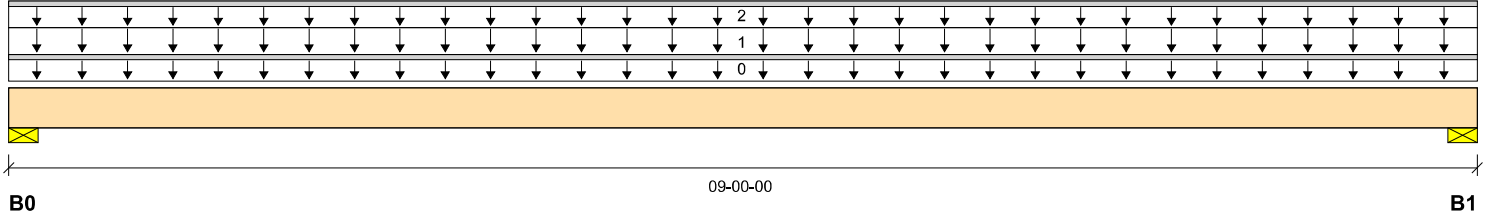
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2250 / 0	1168 / 0		
B1, 3-1/2"	2250 / 0	1168 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top	40	15			12-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		60			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	9799 ft-lbs	35392 ft-lbs	27.7%	1	04-06-00
End Shear	3458 lbs	14464 lbs	23.9%	1	01-03-06
Total Load Deflection	L/999 (0.093")	n/a	n/a	4	04-06-00
Live Load Deflection	L/999 (0.061")	n/a	n/a	5	04-06-00
Max Defl.	0.093"	n/a	n/a	4	04-06-00
Span / Depth	8.6				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	4835 lbs	64.2%	32.4%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	4835 lbs	64.2%	32.4%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 6" O/C,  
STAGGERED IN 2 ROWS

## B05 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

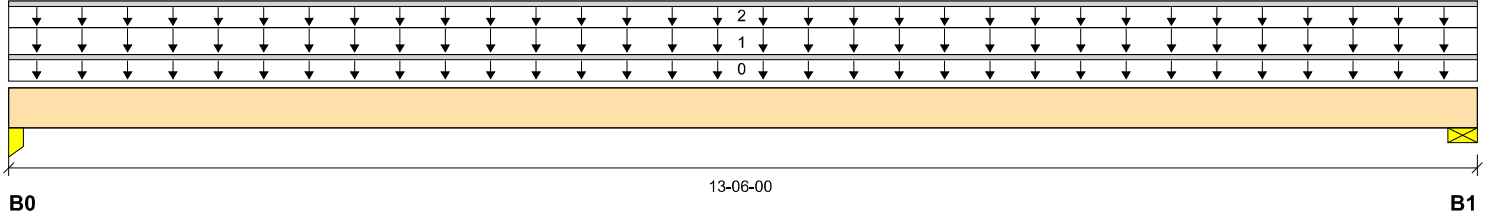
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 13-06-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3"	3095 / 0	2032 / 0		
B1, 3-1/2"	3115 / 0	2045 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-06-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	13-06-00	Top	40	20			11-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	13-06-00	Top		60			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	22842 ft-lbs	35392 ft-lbs	64.5%	1	06-08-12
End Shear	5860 lbs	14464 lbs	40.5%	1	01-02-14
Total Load Deflection	L/305 (0.514")	n/a	78.6%	4	06-08-12
Live Load Deflection	L/506 (0.31")	n/a	71.2%	5	06-08-12
Max Defl.	0.514"	n/a	51.4%	4	06-08-12
Span / Depth	13.2				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Column 3" x 3-1/2"	7184 lbs	39.4%	56.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	7228 lbs	95.9%	48.4%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 10" O/C,  
STAGGERED IN 2 ROWS



BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B06 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

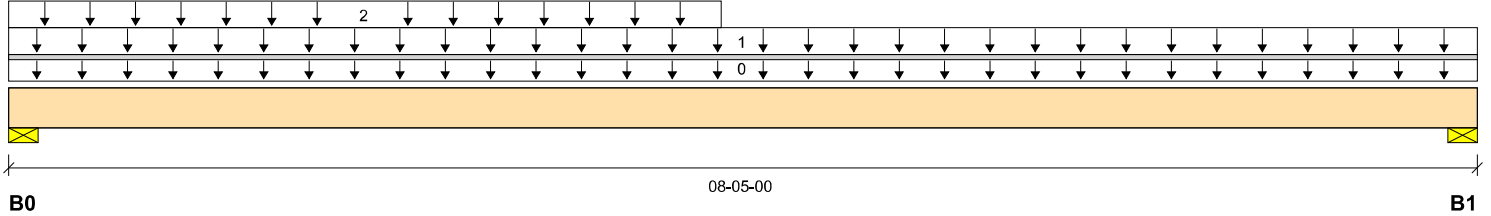
File name: 318279

Description: Second Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 08-05-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1346 / 0	635 / 0		
B1, 3-1/2"	991 / 0	502 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-05-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	08-05-00	Top	40	20			05-00-00
2		Unf. Area (lb/ft²)	L	00-00-00	04-01-00	Top	40	15			04-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	4666 ft-lbs	17696 ft-lbs	26.4%	1	03-08-13
End Shear	1855 lbs	7232 lbs	25.6%	1	01-03-06
Total Load Deflection	L/999 (0.076")	n/a	n/a	4	04-01-00
Live Load Deflection	L/999 (0.051")	n/a	n/a	5	04-01-00
Max Defl.	0.076"	n/a	n/a	4	04-01-00
Span / Depth	8.0				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2813 lbs	74.6%	37.6%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2114 lbs	56.1%	28.3%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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

SE007868

## B07 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

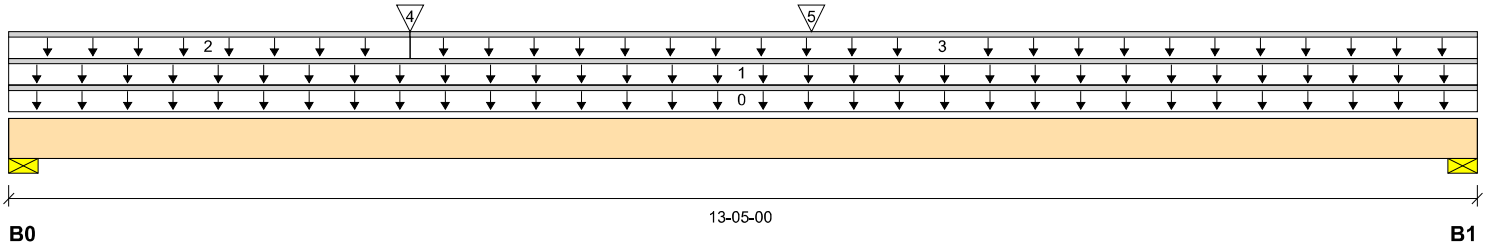
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 13-05-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2672 / 0	1807 / 0		
B1, 3-1/2"	2415 / 0	1579 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-05-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	13-05-00	Top	27	14			n/a
2		Unf. Lin. (lb/ft)	L	00-00-00	03-08-00	Top		60			n/a
3		Unf. Lin. (lb/ft)	L	03-08-00	13-05-00	Top	27	14			n/a
4		Conc. Pt. (lbs)	L	03-08-00	03-08-00	Top	1346	635			n/a
5		Conc. Pt. (lbs)	L	07-04-00	07-04-00	Top	3115	2045			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	30341 ft-lbs	35392 ft-lbs	85.7%	1	07-04-00
End Shear	6077 lbs	14464 lbs	42.0%	1	01-03-06
Total Load Deflection	L/265 (0.586")	n/a	90.4%	4	06-07-12
Live Load Deflection	L/436 (0.356")	n/a	82.5%	5	06-07-12
Max Defl.	0.586"	n/a	58.6%	4	06-07-12
Span / Depth	13.1				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	6266 lbs	83.2%	41.9%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	5596 lbs	74.2%	37.4%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

BC CALC® Member Report

## B08 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

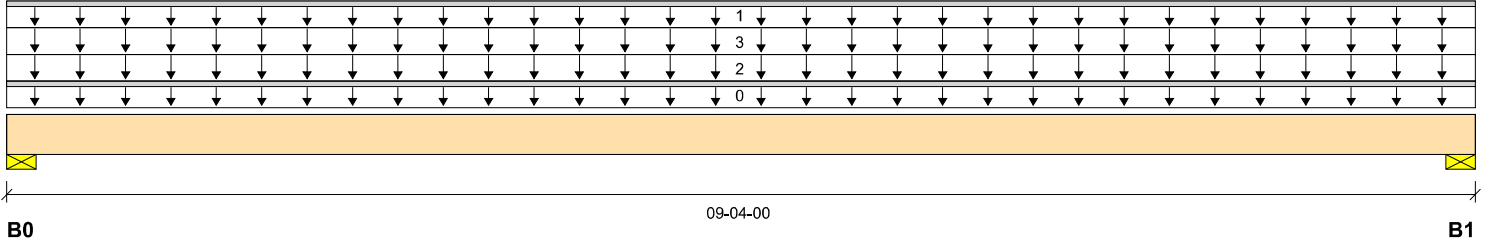
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-04-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	126 / 0	1148 / 0	1400 / 0	
B1, 3-1/2"	126 / 0	1148 / 0	1400 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-04-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	09-04-00	Top	27	114			n/a
2		Unf. Area (lb/ft²)	L	00-00-00	09-04-00	Top		14	21		05-00-00
3		Unf. Area (lb/ft²)	L	00-00-00	09-04-00	Top		20	78		02-06-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	7724 ft-lbs	35392 ft-lbs	21.8%	5	04-08-00
End Shear	2656 lbs	14464 lbs	18.4%	5	01-03-06
Total Load Deflection	L/999 (0.078")	n/a	n/a	11	04-08-00
Live Load Deflection	L/999 (0.042")	n/a	n/a	15	04-08-00
Max Defl.	0.078"	n/a	n/a	11	04-08-00
Span / Depth	9.0				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	3661 lbs	48.6%	24.5%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	3661 lbs	48.6%	24.5%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS - TOP LOADED



## B09 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

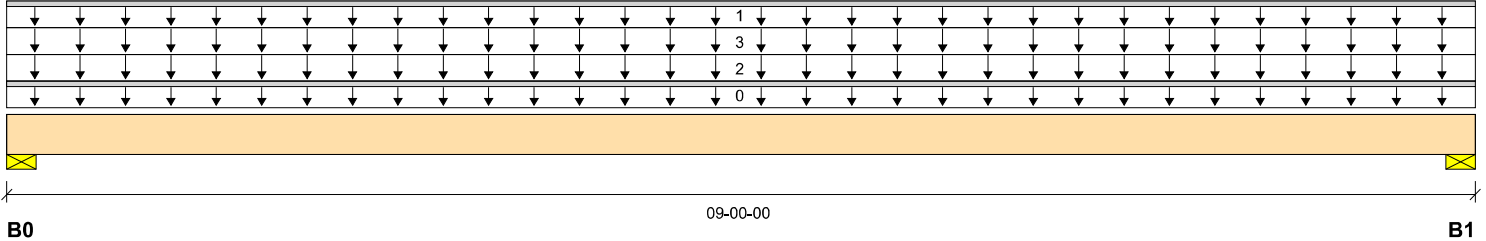
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	121 / 0	783 / 0	540 / 0	
B1, 3-1/2"	122 / 0	783 / 0	540 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top	27	114			n/a
2		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top		14	21		02-00-00
3		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top		20	78		01-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	3872 ft-lbs	35392 ft-lbs	10.9%	5	04-06-00
End Shear	1367 lbs	14464 lbs	9.4%	5	01-03-06
Total Load Deflection	L/999 (0.038")	n/a	n/a	11	04-06-00
Live Load Deflection	L/999 (0.017")	n/a	n/a	15	04-06-00
Max Defl.	0.038"	n/a	n/a	11	04-06-00
Span / Depth	8.6				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1910 lbs	25.4%	12.8%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1910 lbs	25.4%	12.8%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

## B10 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

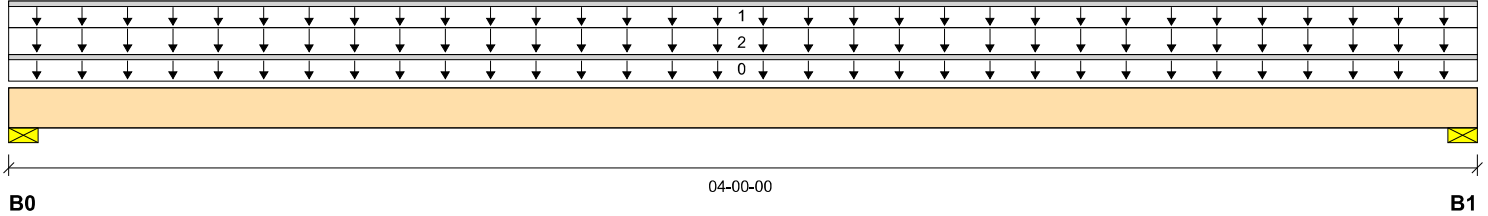
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 04-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	54 / 0	560 / 0	462 / 0	
B1, 3-1/2"	54 / 0	560 / 0	462 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-00-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	04-00-00	Top	27	114			n/a
2		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top		14	21		11-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1134 ft-lbs	35392 ft-lbs	3.2%	5	02-00-00
End Shear	520 lbs	14464 lbs	3.6%	5	01-03-06
Total Load Deflection	L/999 (0.002")	n/a	n/a	11	02-00-00
Live Load Deflection	L/999 (0.001")	n/a	n/a	15	02-00-00
Max Defl.	0.002"	n/a	n/a	11	02-00-00
Span / Depth	3.6				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1447 lbs	19.2%	9.7%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1447 lbs	19.2%	9.7%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 4" O/C,  
STAGGERED IN 2 ROWS



BC CALC® Member Report

B11 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

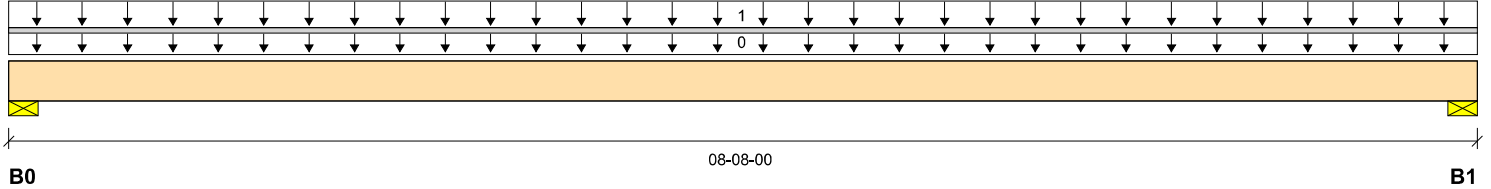
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 08-08-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	867 / 0	346 / 0		
B1, 3-1/2"	867 / 0	346 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-08-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	08-08-00	Top	40	15			05-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	3367 ft-lbs	11610 ft-lbs	29.0%	1	04-04-00
End Shear	1299 lbs	5785 lbs	22.5%	1	01-01-00
Total Load Deflection	L/999 (0.114")	n/a	n/a	4	04-04-00
Live Load Deflection	L/999 (0.082")	n/a	n/a	5	04-04-00
Max Defl.	0.114"	n/a	n/a	4	04-04-00
Span / Depth	10.4				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1732 lbs	46.0%	23.2%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1732 lbs	46.0%	23.2%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

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

SE007873

BC CALC® Member Report

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

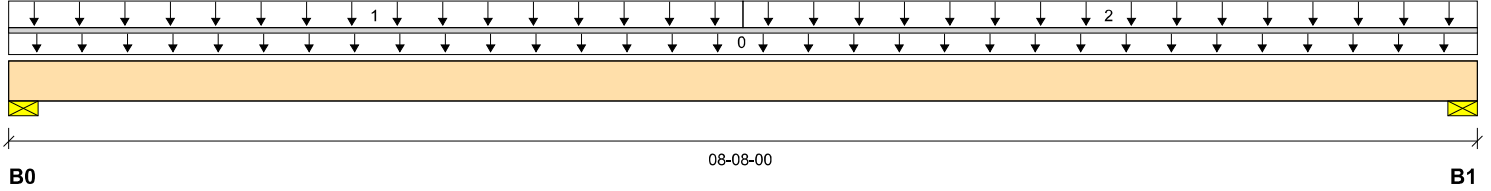
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 08-08-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1117 / 0	445 / 0		
B1, 3-1/2"	1482 / 0	582 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-08-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-04-00	Top	40	15			05-06-00
2		Unf. Area (lb/ft²)	L	04-04-00	08-08-00	Top	40	15			09-06-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	5106 ft-lbs	17696 ft-lbs	28.9%	1	04-08-09
End Shear	1983 lbs	7232 lbs	27.4%	1	07-04-10
Total Load Deflection	L/999 (0.088")	n/a	n/a	4	04-05-02
Live Load Deflection	L/999 (0.063")	n/a	n/a	5	04-05-02
Max Defl.	0.088"	n/a	n/a	4	04-05-02
Span / Depth	8.3				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2233 lbs	59.3%	29.9%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2951 lbs	78.3%	39.5%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

### Disclosure

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

SE007874

**B13 (Floor Beam)**

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

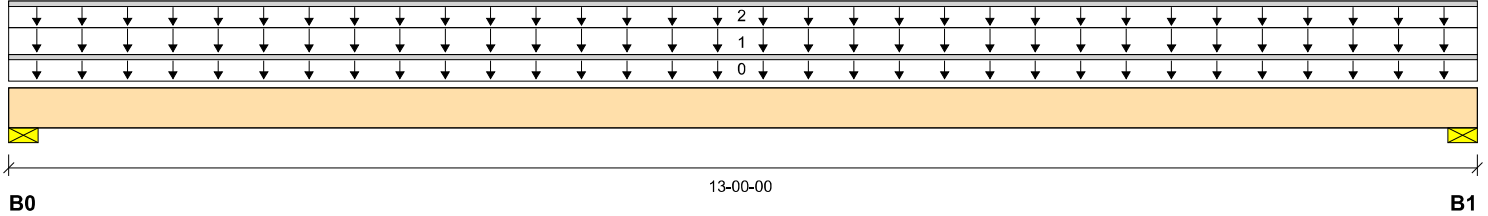
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 13-00-00

**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2513 / 0	1725 / 0		
B1, 3-1/2"	2513 / 0	1725 / 0		

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	13-00-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	13-00-00	Top	40	20			09-08-00
2		Unf. Lin. (lb/ft)	L	00-00-00	13-00-00	Top		60			n/a

**Controls Summary**

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	17926 ft-lbs	35392 ft-lbs	50.6%	1	06-06-00
End Shear	4758 lbs	14464 lbs	32.9%	1	01-03-06
Total Load Deflection	L/405 (0.372")	n/a	59.3%	4	06-06-00
Live Load Deflection	L/683 (0.22")	n/a	52.7%	5	06-06-00
Max Defl.	0.372"	n/a	37.2%	4	06-06-00
Span / Depth	12.7				


**Bearing Supports**

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	5926 lbs	78.6%	39.7%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	5926 lbs	78.6%	39.7%	Spruce-Pine-Fir

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 9" O/C,  
STAGGERED IN 2 ROWS



BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

## B14 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

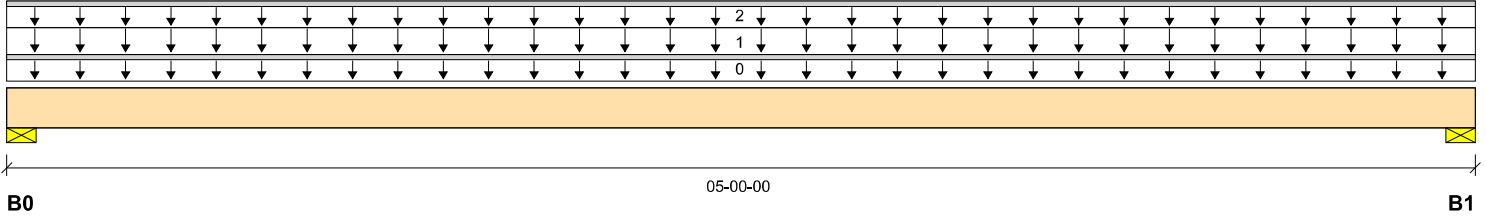
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	867 / 0	637 / 0		
B1, 3-1/2"	867 / 0	637 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	05-00-00	Top	40	15			08-08-00
2		Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top		120			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	2162 ft-lbs	11610 ft-lbs	18.6%	1	02-06-00
End Shear	1188 lbs	5785 lbs	20.5%	1	01-01-00
Total Load Deflection	L/999 (0.023")	n/a	n/a	4	02-06-00
Live Load Deflection	L/999 (0.013")	n/a	n/a	5	02-06-00
Max Defl.	0.023"	n/a	n/a	4	02-06-00
Span / Depth	5.7				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2096 lbs	55.6%	28.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2096 lbs	55.6%	28.1%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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

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

SE007876

## B15 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

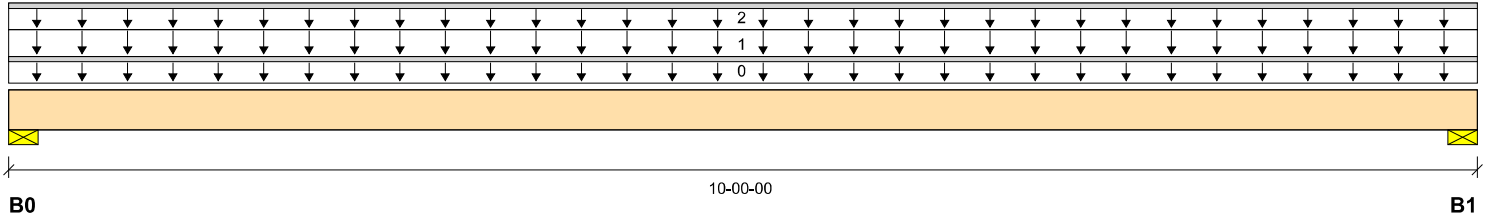
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 10-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1067 / 0	730 / 0		
B1, 3-1/2"	1067 / 0	730 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	10-00-00	Top	40	15			05-04-00
2		Unf. Lin. (lb/ft)	L	00-00-00	10-00-00	Top		60			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	5719 ft-lbs	17696 ft-lbs	32.3%	1	05-00-00
End Shear	1869 lbs	7232 lbs	25.8%	1	01-03-06
Total Load Deflection	L/834 (0.137")	n/a	28.8%	4	05-00-00
Live Load Deflection	L/999 (0.081")	n/a	n/a	5	05-00-00
Max Defl.	0.137"	n/a	13.7%	4	05-00-00
Span / Depth	9.6				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2513 lbs	66.7%	33.6%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2513 lbs	66.7%	33.6%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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

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

SE007877

## B16 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

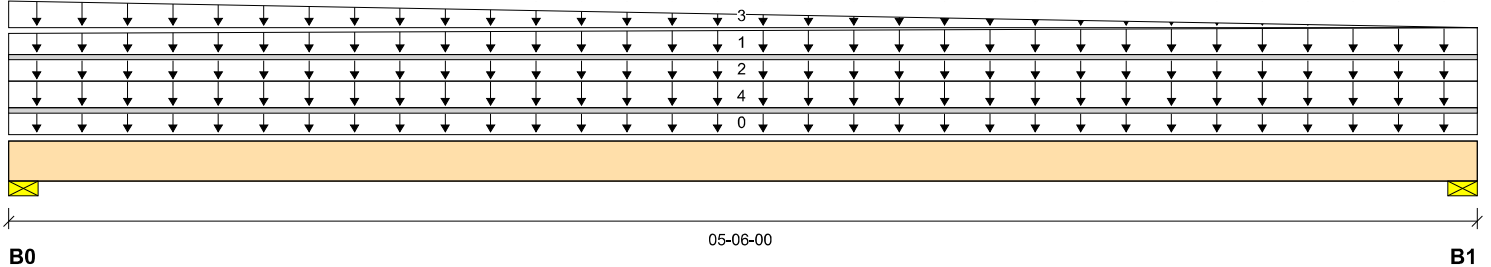
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	749 / 0	911 / 0	367 / 0	
B1, 3-1/2"	818 / 0	918 / 0	326 / 0	

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top		6			00-00-00
1		Trapezoidal (lb/ft)	L	00-00-00	05-06-00	Top	250	125			n/a
2		Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top	320	160			n/a
3		Trapezoidal (lb/ft)	L	00-00-00	05-06-00	Top		28	42		n/a
4		Unf. Area (lb/ft²)	L	00-00-00	05-06-00	Top		0	0		05-00-00

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	3079 ft-lbs	17696 ft-lbs	17.4%	1	02-09-00
End Shear	2086 lbs	7232 lbs	28.9%	1	04-02-10
Total Load Deflection	L/999 (0.022")	n/a	n/a	11	02-09-00
Live Load Deflection	L/999 (0.012")	n/a	n/a	15	02-09-00
Max Defl.	0.022"	n/a	n/a	11	02-09-00
Span / Depth	5.1				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2630 lbs	69.8%	35.2%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2701 lbs	71.7%	36.1%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## B17 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

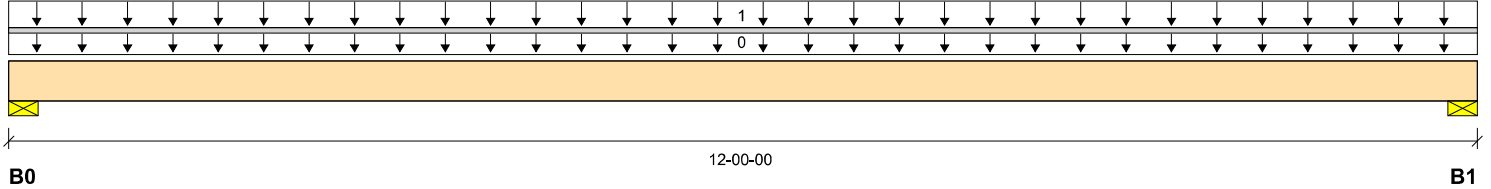
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 12-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2640 / 0	1392 / 0		
B1, 3-1/2"	2640 / 0	1392 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	12-00-00	Top	40	20			11-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	15819 ft-lbs	35392 ft-lbs	44.7%	1	06-00-00
End Shear	4483 lbs	14464 lbs	31.0%	1	01-03-06
Total Load Deflection	L/504 (0.275")	n/a	47.6%	4	06-00-00
Live Load Deflection	L/770 (0.18")	n/a	46.7%	5	06-00-00
Max Defl.	0.275"	n/a	27.5%	4	06-00-00
Span / Depth	11.7				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	5700 lbs	75.6%	38.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	5700 lbs	75.6%	38.1%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

## B17a (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

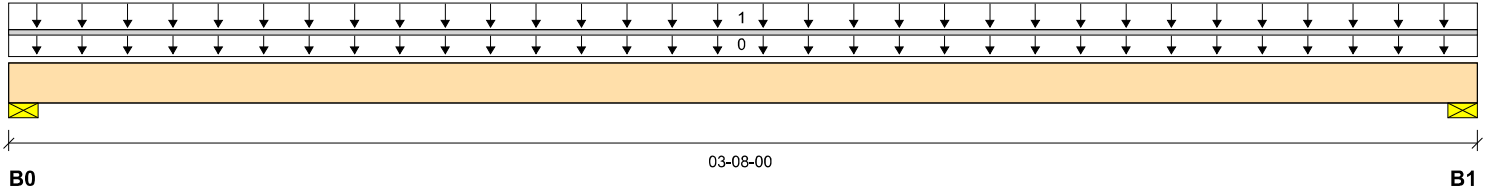
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 2-1/2"	816 / 0	419 / 0		
B1, 2"	797 / 0	410 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	03-08-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	03-08-00	Top	40	20			11-00-00

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1375 ft-lbs	17696 ft-lbs	7.8%	1	01-10-04
End Shear	619 lbs	7232 lbs	8.6%	1	01-02-06
Total Load Deflection	L/999 (0.004")	n/a	n/a	4	01-10-04
Live Load Deflection	L/999 (0.003")	n/a	n/a	5	01-10-04
Max Defl.	0.004"	n/a	n/a	4	01-10-04
Span / Depth	3.5				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 2-1/2" x 1-3/4"	1748 lbs	64.9%	32.7%	Spruce-Pine-Fir
B1	Wall/Plate 2" x 1-3/4"	1708 lbs	79.3%	40.0%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

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SE007880





## B18 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

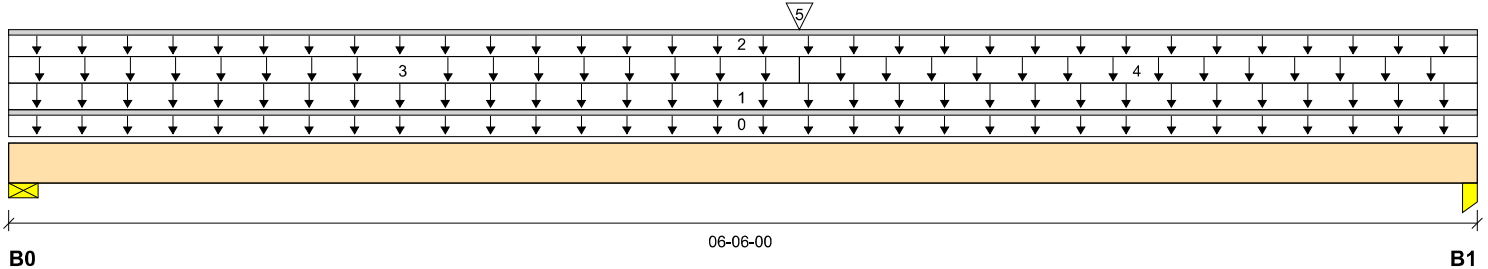
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	663 / 0	1095 / 0	666 / 0	
B1, 2"	638 / 0	1407 / 0	1099 / 0	

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	06-06-00	Top	40	15			05-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	06-06-00	Top		100			n/a
3		Unf. Area (lb/ft²)	L	00-00-00	03-06-00	Top		14	21		04-00-00
4		Unf. Area (lb/ft²)	L	03-06-00	06-06-00	Top		20	27		12-06-00
5		Conc. Pt. (lbs)	L	03-06-00	03-06-00	Top		380	458		n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6117 ft-lbs	17696 ft-lbs	34.6%	5	03-06-00
End Shear	2605 lbs	7232 lbs	36.0%	5	05-04-02
Total Load Deflection	L/999 (0.061")	n/a	n/a	11	03-04-05
Live Load Deflection	L/999 (0.032")	n/a	n/a	15	03-04-05
Max Defl.	0.061"	n/a	n/a	11	03-04-05
Span / Depth	6.2				

Bearing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3030 lbs	80.4%	40.6%	Spruce-Pine-Fir
B1	Column 2" x 1-3/4"	4045 lbs	66.6%	94.7%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## B19 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

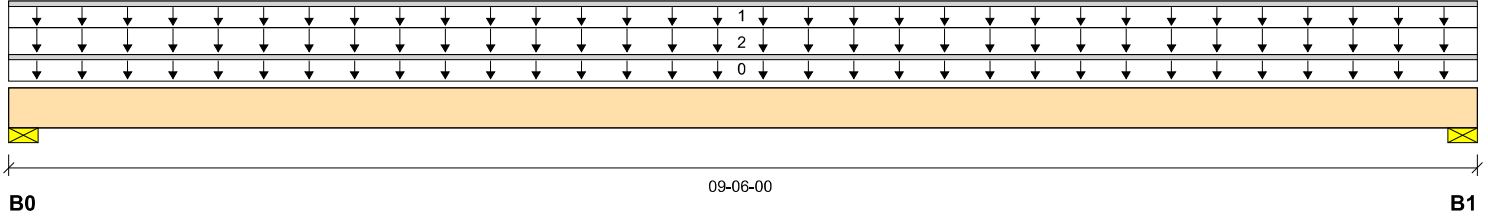
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-06-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	128 / 0	789 / 0	257 / 0	
B1, 3-1/2"	128 / 0	789 / 0	257 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-06-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	09-06-00	Top	27	114			n/a
2		Unf. Area (lb/ft²)	L	00-00-00	09-06-00	Top		20	27		02-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	2375 ft-lbs	23005 ft-lbs	10.3%	0	04-09-00
End Shear	806 lbs	9401 lbs	8.6%	0	01-03-06
Total Load Deflection	L/999 (0.037")	n/a	n/a	11	04-09-00
Live Load Deflection	L/999 (0.012")	n/a	n/a	15	04-09-00
Max Defl.	0.037"	n/a	n/a	11	04-09-00
Span / Depth	9.1				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1104 lbs	22.5%	11.4%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1104 lbs	22.5%	11.4%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS



## B20 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

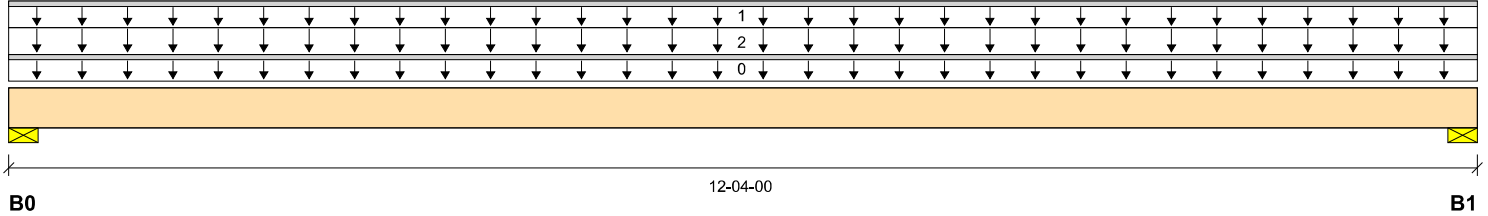
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 12-04-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	166 / 0	1024 / 0	333 / 0	
B1, 3-1/2"	167 / 0	1024 / 0	333 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-04-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	12-04-00	Top	27	114			n/a
2		Unf. Area (lb/ft²)	L	00-00-00	12-04-00	Top		20	27		02-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	4097 ft-lbs	23005 ft-lbs	17.8%	0	06-02-00
End Shear	1136 lbs	9401 lbs	12.1%	0	01-03-06
Total Load Deflection	L/999 (0.111")	n/a	n/a	11	06-02-00
Live Load Deflection	L/999 (0.035")	n/a	n/a	15	06-02-00
Max Defl.	0.111"	n/a	n/a	11	06-02-00
Span / Depth	12.0				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1433 lbs	29.3%	14.8%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1433 lbs	29.3%	14.8%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

## B21 (Floor Beam)

Dry | 2 spans | R cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

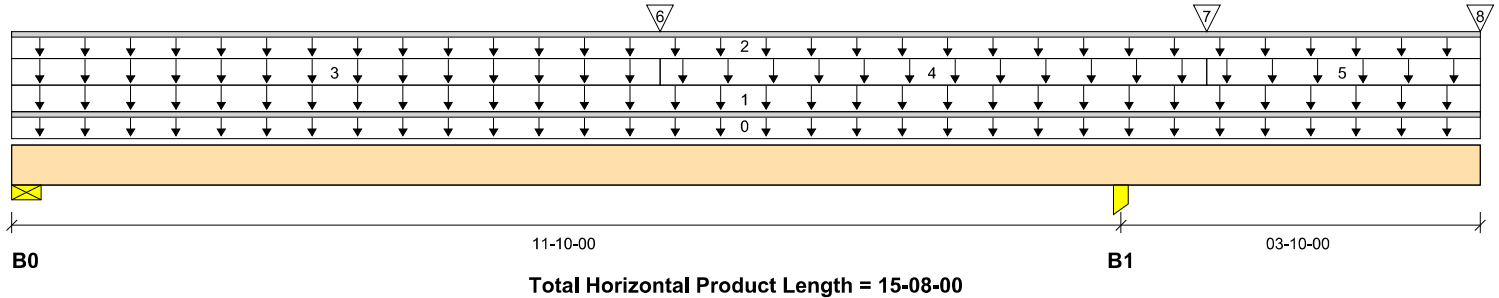
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1508 / 213	1897 / 0	1531 / 0	
B1, 5-1/2"	2788 / 0	5972 / 0	3455 / 0	

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	15-08-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	15-08-00	Top	40	20			06-03-00
2		Unf. Lin. (lb/ft)	L	00-00-00	15-08-00	Top		100			n/a
3		Unf. Area (lb/ft²)	L	00-00-00	06-11-00	Top		14	21		12-06-00
4		Unf. Area (lb/ft²)	L	06-11-00	12-09-00	Top		14	21		04-00-00
5		Unf. Area (lb/ft²)	L	12-09-00	15-08-00	Top		20	27		12-06-00
6		Conc. Pt. (lbs)	L	06-11-00	06-11-00	Top		486	729		n/a
7		Conc. Pt. (lbs)	L	12-09-00	12-09-00	Top		380	458		n/a
8		Conc. Pt. (lbs)	L	15-08-00	15-08-00	Top	166	1024	333		n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	15102 ft-lbs	35392 ft-lbs	42.7%	2	05-04-00
Neg. Moment	-18289 ft-lbs	-35392 ft-lbs	51.7%	28	11-10-00
End Shear	4691 lbs	14464 lbs	32.4%	26	01-03-06
Cont. Shear	6761 lbs	14464 lbs	46.7%	31	10-07-06
Total Load Deflection	2xL/412 (0.223")	n/a	58.2%	58	15-08-00
Live Load Deflection	2xL/572 (-0.161")	n/a	62.9%	78	15-08-00
Total Neg. Defl.	2xL/1998 (-0.086")	n/a	n/a	54	15-08-00
Max Defl.	0.253"	n/a	25.3%	54	05-08-03
Cant. Max Defl.	0.223"	n/a	22.3%	58	15-08-00
Span / Depth	11.7				



Bearing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	6176 lbs	81.9%	41.3%	Spruce-Pine-Fir
B1	Column 5-1/2" x 3-1/2"	15436 lbs	46.2%	65.7%	Spruce-Pine-Fir

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

## B22 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

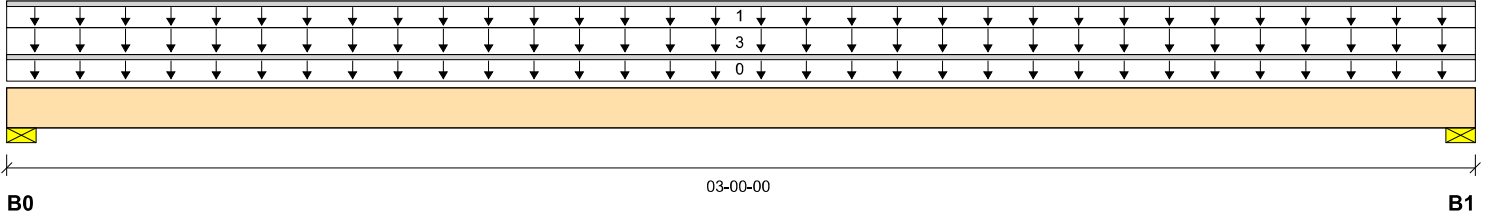
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 03-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	40 / 0	429 / 0	324 / 0	
B1, 3-1/2"	40 / 0	429 / 0	324 / 0	

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	03-00-00	Top	27	114			n/a
3		Unf. Area (lb/ft²)	L	00-00-00	03-00-00	Top		20	27		08-00-00

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	572 ft-lbs	35392 ft-lbs	1.6%	5	01-06-00
End Shear	155 lbs	14464 lbs	1.1%	5	01-03-06
Total Load Deflection	L/999 (0")	n/a	n/a	11	01-06-00
Live Load Deflection	L/999 (0")	n/a	n/a	15	01-06-00
Max Defl.	0"	n/a	n/a	11	01-06-00
Span / Depth	2.6				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1063 lbs	14.1%	7.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1063 lbs	14.1%	7.1%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 4" O/C,  
STAGGERED IN 2 ROWS

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B23 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

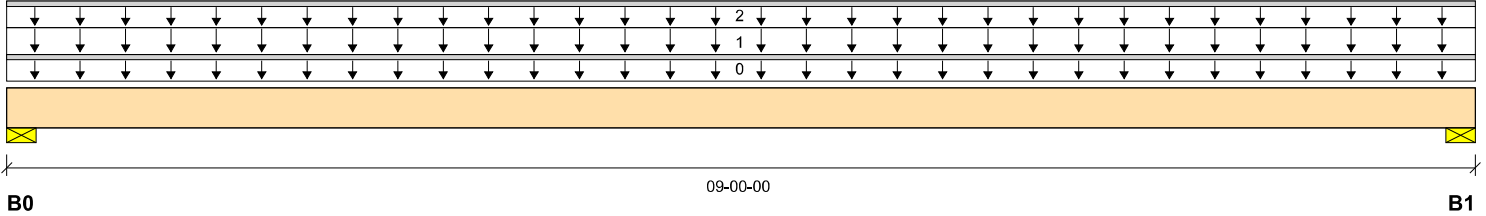
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	540 / 0	500 / 0		
B1, 3-1/2"	540 / 0	500 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top	40	15			03-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		60			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	2907 ft-lbs	17696 ft-lbs	16.4%	1	04-06-00
End Shear	1026 lbs	7232 lbs	14.2%	1	01-03-06
Total Load Deflection	L/999 (0.057")	n/a	n/a	4	04-06-00
Live Load Deflection	L/999 (0.029")	n/a	n/a	5	04-06-00
Max Defl.	0.057"	n/a	n/a	4	04-06-00
Span / Depth	8.6				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1434 lbs	38.1%	19.2%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1434 lbs	38.1%	19.2%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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

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

SE007886

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

## B24 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

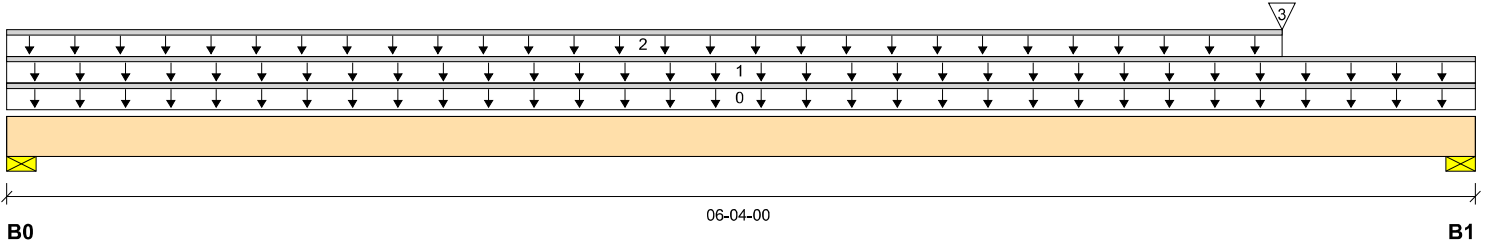
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 06-04-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	226 / 0	349 / 0		
B1, 3-1/2"	634 / 0	735 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-04-00	Top		6			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	06-04-00	Top	27	74			n/a
2		Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top	27	14			n/a
3		Conc. Pt. (lbs)	L	05-06-00	05-06-00	Top	540	500			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1337 ft-lbs	17696 ft-lbs	7.6%	1	03-10-08
End Shear	1040 lbs	7232 lbs	14.4%	1	05-00-10
Total Load Deflection	L/999 (0.013")	n/a	n/a	4	03-04-02
Live Load Deflection	L/999 (0.005")	n/a	n/a	5	03-04-02
Max Defl.	0.013"	n/a	n/a	4	03-04-02
Span / Depth	5.9				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	774 lbs	20.5%	10.4%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1870 lbs	49.6%	25.0%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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SE007887



BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B25 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

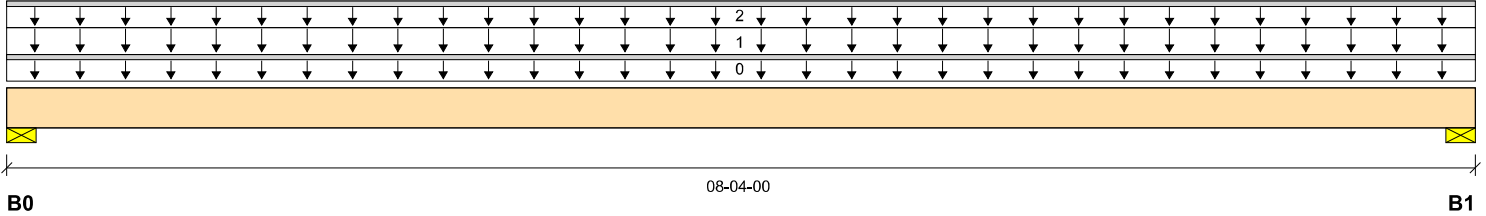
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 08-04-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	792 / 0	666 / 0		
B1, 3-1/2"	792 / 0	666 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-04-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	08-04-00	Top	40	20			04-09-00
2		Unf. Lin. (lb/ft)	L	00-00-00	08-04-00	Top		60			n\A

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	3758 ft-lbs	11610 ft-lbs	32.4%	1	04-02-00
End Shear	1495 lbs	5785 lbs	25.8%	1	01-01-00
Total Load Deflection	L/999 (0.121")	n\A	n\A	4	04-02-00
Live Load Deflection	L/999 (0.066")	n\A	n\A	5	04-02-00
Max Defl.	0.121"	n\A	n\A	4	04-02-00
Span / Depth	9.9				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	2020 lbs	53.6%	27.0%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	2020 lbs	53.6%	27.0%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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SE007888

BC CALC® Member Report

B26 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

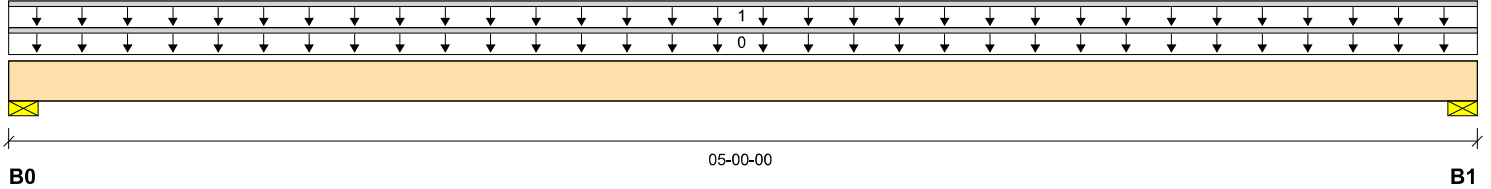
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	67 / 0	215 / 0		
B1, 3-1/2"	67 / 0	215 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live	Dead	Snow	Wind	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top	1.00	0.65	1.00	1.15	00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	05-00-00	Top	27	74			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	311 ft-lbs	23005 ft-lbs	1.3%	0	02-06-00
End Shear	147 lbs	9401 lbs	1.6%	0	01-03-06
Total Load Deflection	L/999 (0.001")	n/a	n/a	4	02-06-00
Live Load Deflection	L/999 (0")	n/a	n/a	5	02-06-00
Max Defl.	0.001"	n/a	n/a	4	02-06-00
Span / Depth	4.6				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	301 lbs	6.1%	3.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	301 lbs	6.1%	3.1%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 6" O/C,  
STAGGERED IN 2 ROWS



## B27 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

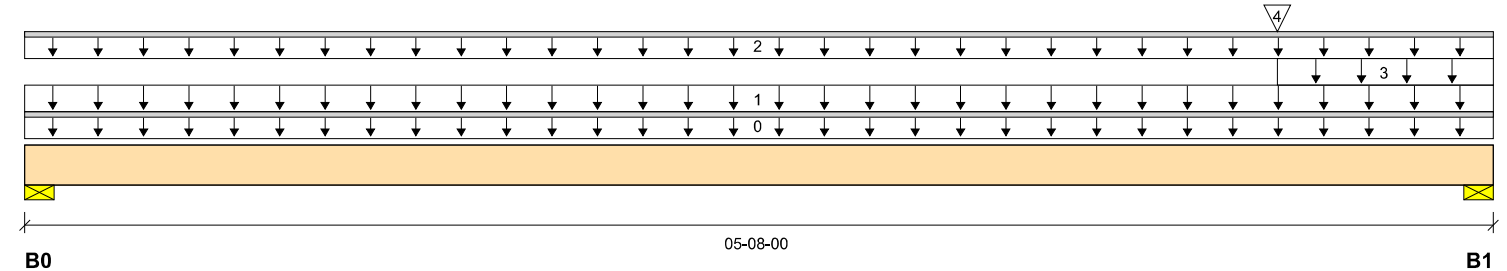
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	824 / 0	637 / 0		
B1, 3-1/2"	958 / 0	843 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-08-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	05-08-00	Top	40	20			07-02-00
2		Unf. Lin. (lb/ft)	L	00-00-00	05-08-00	Top		60			n/a
3		Unf. Area (lb/ft²)	L	04-10-00	05-08-00	Top	40	20			02-08-00
4		Conc. Pt. (lbs)	L	04-10-00	04-10-00	Top	68	215			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2506 ft-lbs	35392 ft-lbs	7.1%	1	02-11-03
End Shear	1360 lbs	14464 lbs	9.4%	1	04-04-10
Total Load Deflection	L/999 (0.009")	n/a	n/a	4	02-10-00
Live Load Deflection	L/999 (0.005")	n/a	n/a	5	02-10-00
Max Defl.	0.009"	n/a	n/a	4	02-10-00
Span / Depth	5.3				

Bearing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	2032 lbs	27.0%	13.6%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	2490 lbs	33.0%	16.7%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 6" O/C,  
STAGGERED IN 2 ROWS



## B28 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: Second Floor Framing

City, Province, Postal Code: Vaughan, ON

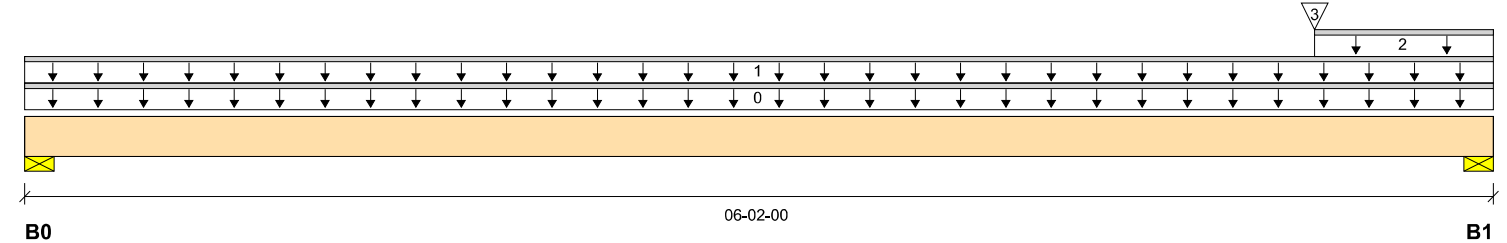
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 06-02-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	159 / 0	324 / 0		
B1, 3-1/2"	852 / 0	854 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-02-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	06-02-00	Top	27	74			n/a
2		Unf. Lin. (lb/ft)	L	05-05-00	06-02-00	Top	27	14			n/a
3		Conc. Pt. (lbs)	L	05-05-00	05-05-00	Top	824	637			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1255 ft-lbs	35392 ft-lbs	3.5%	1	04-03-14
End Shear	1048 lbs	14464 lbs	7.2%	1	04-10-10
Total Load Deflection	L/999 (0.006")	n/a	n/a	4	03-03-11
Live Load Deflection	L/999 (0.002")	n/a	n/a	5	03-04-06
Max Defl.	0.006"	n/a	n/a	4	03-03-11
Span / Depth	5.8				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	453 lbs	9.3%	4.7%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	2345 lbs	31.1%	15.7%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 6" O/C,  
STAGGERED IN 2 ROWS

BC CALC® Member Report

## B29 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

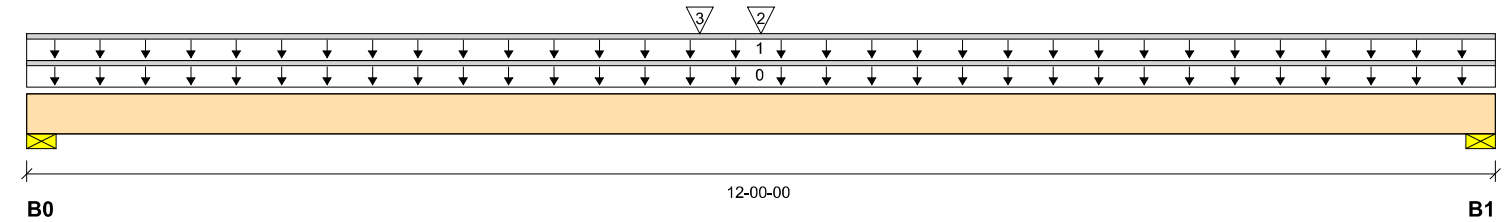
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1292 / 0	1267 / 0		
B1, 3-1/2"	1246 / 0	1224 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	12-00-00	Top	54	87			n/a
2		Conc. Pt. (lbs)	L	06-00-00	06-00-00	Top	1350	803			n/a
3		Conc. Pt. (lbs)	L	05-06-00	05-06-00	Top	540	500			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	15932 ft-lbs	35392 ft-lbs	45.0%	1	06-00-00
End Shear	3260 lbs	14464 lbs	22.5%	1	01-03-06
Total Load Deflection	L/570 (0.243")	n/a	42.1%	4	06-00-00
Live Load Deflection	L/1075 (0.129")	n/a	33.5%	5	06-00-00
Max Defl.	0.243"	n/a	24.3%	4	06-00-00
Span / Depth	11.7				



### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	3523 lbs	46.7%	23.6%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	3399 lbs	45.1%	22.7%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS

**B30 (Floor Beam)**

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

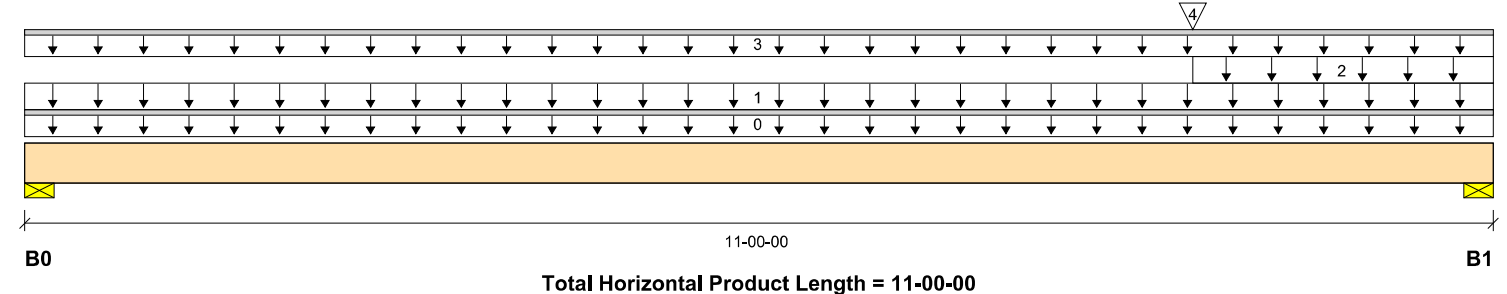
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses


**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1335 / 0	1105 / 0		
B1, 3-1/2"	3654 / 0	2291 / 0		

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top		18			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	11-00-00	Top	40	20			03-08-00
2		Unf. Area (lb/ft²)	L	08-09-00	11-00-00	Top	40	20			12-06-00
3		Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top		60			n/a
4		Conc. Pt. (lbs)	L	08-09-00	08-09-00	Top	2250	1168			n/a

**Controls Summary**

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	13225 ft-lbs	55212 ft-lbs	24.0%	1	08-03-06
End Shear	6458 lbs	21696 lbs	29.8%	1	09-08-10
Total Load Deflection	L/999 (0.123")	n/a	n/a	4	05-10-00
Live Load Deflection	L/999 (0.072")	n/a	n/a	5	05-11-06
Max Defl.	0.123"	n/a	n/a	4	05-10-00
Span / Depth	10.7				


**Bearing Supports**

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 5-1/4"	3384 lbs	29.9%	15.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 5-1/4"	8344 lbs	73.8%	37.2%	Spruce-Pine-Fir

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS - TOP LOADED

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

## B31 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

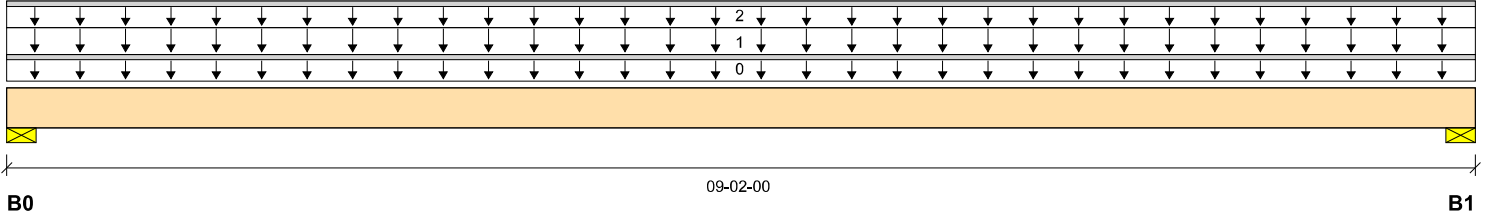
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-02-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	642 / 0	623 / 0		
B1, 3-1/2"	642 / 0	623 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-02-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-02-00	Top	40	20			03-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-02-00	Top		60			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	3602 ft-lbs	17696 ft-lbs	20.4%	1	04-07-00
End Shear	1255 lbs	7232 lbs	17.4%	1	01-03-06
Total Load Deflection	L/999 (0.073")	n/a	n/a	4	04-07-00
Live Load Deflection	L/999 (0.037")	n/a	n/a	5	04-07-00
Max Defl.	0.073"	n/a	n/a	4	04-07-00
Span / Depth	8.8				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1742 lbs	46.2%	23.3%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1742 lbs	46.2%	23.3%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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

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SE007894



BC CALC® Member Report

B32 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

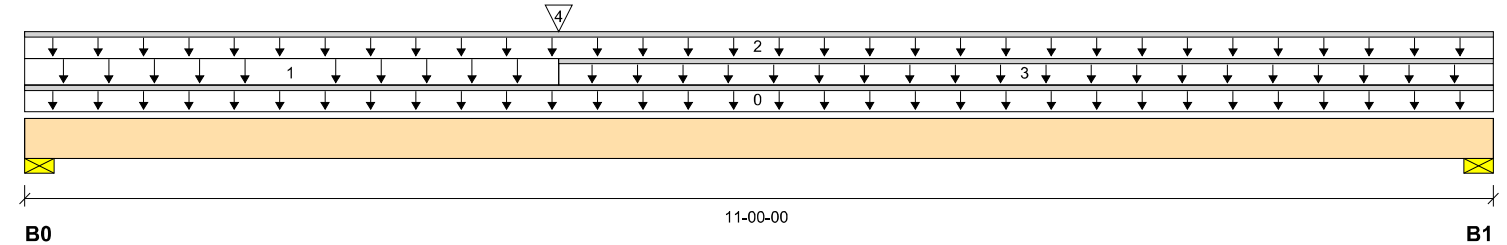
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 11'-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1551 / 0	890 / 0		
B1, 3-1/2"	697 / 0	471 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top	40	15			07-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top	27	14			n/a
3		Unf. Lin. (lb/ft)	L	04-00-00	11-00-00	Top	27	14			n/a
4		Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	642	623			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	8046 ft-lbs	17696 ft-lbs	45.5%	1	04-00-00
End Shear	2648 lbs	7232 lbs	36.6%	1	01-03-06
Total Load Deflection	L/622 (0.203")	n/a	38.6%	4	05-01-15
Live Load Deflection	L/999 (0.121")	n/a	n/a	5	05-01-15
Max Defl.	0.203"	n/a	20.3%	4	05-01-15
Span / Depth	10.7				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3438 lbs	91.2%	46.0%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1635 lbs	43.4%	21.9%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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SE007895

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B33 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

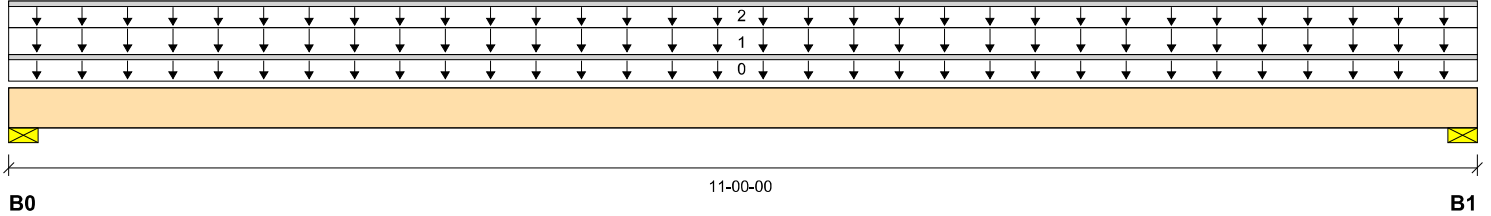
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 11-00-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	660 / 0	611 / 0		
B1, 3-1/2"	660 / 0	611 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	11-00-00	Top	40	15			03-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	11-00-00	Top		60			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	4428 ft-lbs	17696 ft-lbs	25.0%	1	05-06-00
End Shear	1345 lbs	7232 lbs	18.6%	1	01-03-06
Total Load Deflection	L/963 (0.131")	n/a	24.9%	4	05-06-00
Live Load Deflection	L/999 (0.068")	n/a	n/a	5	05-06-00
Max Defl.	0.131"	n/a	13.1%	4	05-06-00
Span / Depth	10.7				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1753 lbs	46.5%	23.5%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1753 lbs	46.5%	23.5%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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SE007896



## B34 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

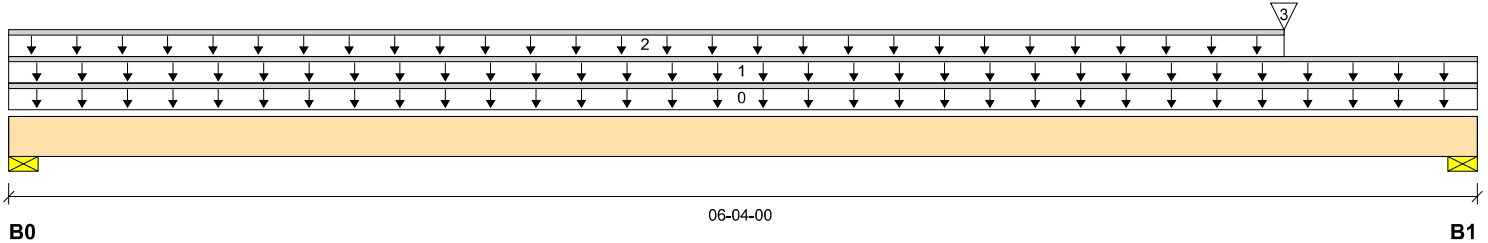
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 06-04-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	238 / 0	170 / 0		
B1, 3-1/2"	742 / 0	645 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-04-00	Top		6			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	06-04-00	Top	27	14			n/a
2		Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top	27	14			n/a
3		Conc. Pt. (lbs)	L	05-06-00	05-06-00	Top	660	611			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1185 ft-lbs	17696 ft-lbs	6.7%	1	04-06-15
End Shear	1041 lbs	7232 lbs	14.4%	1	05-00-10
Total Load Deflection	L/999 (0.011")	n/a	n/a	4	03-04-13
Live Load Deflection	L/999 (0.006")	n/a	n/a	5	03-04-13
Max Defl.	0.011"	n/a	n/a	4	03-04-13
Span / Depth	5.9				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	569 lbs	15.1%	7.6%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1919 lbs	50.9%	25.7%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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SE007897

## B35 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

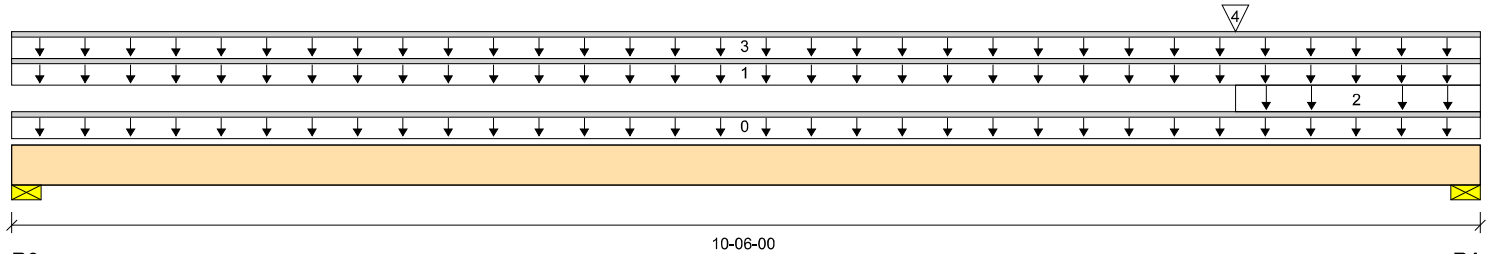
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	540 / 0	670 / 0		
B1, 3-1/2"	2868 / 0	1864 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-06-00	Top		14			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	10-06-00	Top	27	14			n/a
2		Unf. Area (lb/ft²)	L	08-09-00	10-06-00	Top	40	20			12-06-00
3		Unf. Lin. (lb/ft)	L	00-00-00	10-06-00	Top		60			n/a
4		Conc. Pt. (lbs)	L	08-09-00	08-09-00	Top	2250	1168			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	8264 ft-lbs	36222 ft-lbs	22.8%	1	08-09-00
End Shear	5318 lbs	17356 lbs	30.6%	1	09-05-00
Total Load Deflection	L/999 (0.122")	n/a	n/a	4	05-09-01
Live Load Deflection	L/999 (0.066")	n/a	n/a	5	05-10-08
Max Defl.	0.122"	n/a	n/a	4	05-09-01
Span / Depth	12.7				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 5-1/4"	1648 lbs	14.6%	7.4%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 5-1/4"	6633 lbs	58.7%	29.6%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
STAGGERED IN 2 ROWS - TOP LOADED

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B36 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

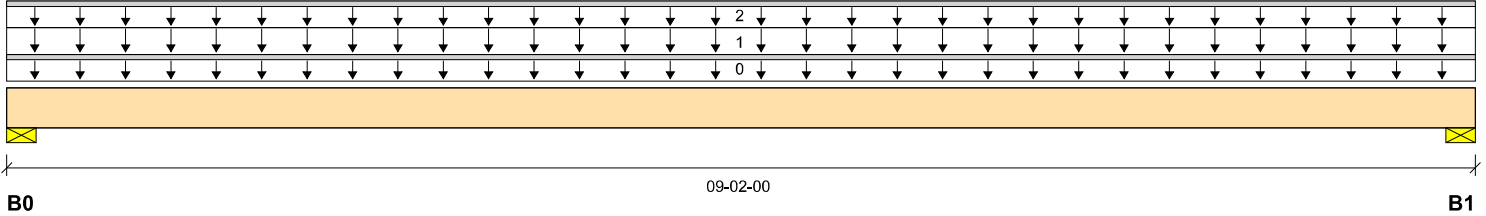
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-02-00

### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	642 / 0	618 / 0		
B1, 3-1/2"	642 / 0	618 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-02-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-02-00	Top	40	20			03-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-02-00	Top		60			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	3588 ft-lbs	11610 ft-lbs	30.9%	1	04-07-00
End Shear	1325 lbs	5785 lbs	22.9%	1	01-01-00
Total Load Deflection	L/735 (0.142")	n/a	32.7%	4	04-07-00
Live Load Deflection	L/999 (0.072")	n/a	n/a	5	04-07-00
Max Defl.	0.142"	n/a	14.2%	4	04-07-00
Span / Depth	11.0				

### Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1735 lbs	46.0%	23.2%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1735 lbs	46.0%	23.2%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



### Disclosure

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

SE007899

## B37 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

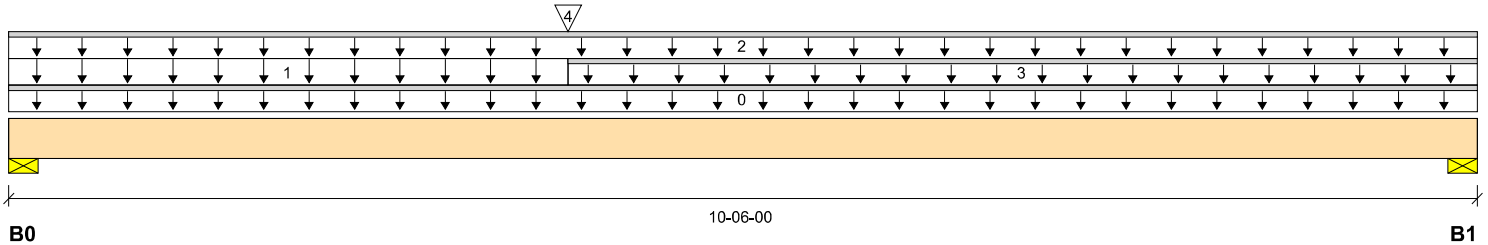
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 10-06-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1517 / 0	861 / 0		
B1, 3-1/2"	704 / 0	471 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	10-06-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top	40	15			07-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	10-06-00	Top	27	14			n/a
3		Unf. Lin. (lb/ft)	L	04-00-00	10-06-00	Top	27	14			n/a
4		Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	642	623			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	7733 ft-lbs	11610 ft-lbs	66.6%	1	04-00-00
End Shear	2685 lbs	5785 lbs	46.4%	1	01-01-00
Total Load Deflection	L/348 (0.346")	n/a	69.0%	4	04-10-03
Live Load Deflection	L/582 (0.207")	n/a	61.9%	5	04-10-03
Max Defl.	0.346"	n/a	34.6%	4	04-10-03
Span / Depth	12.7				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3352 lbs	89.0%	44.9%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1643 lbs	43.6%	22.0%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

## Disclosure

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SE007900

**B38 (Floor Beam)**

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

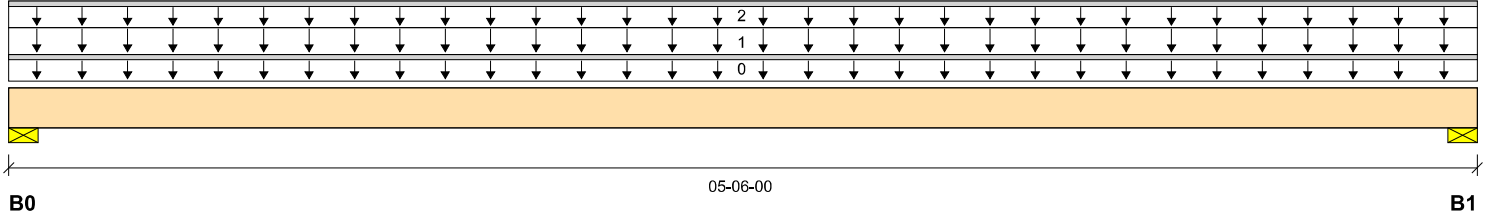
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-06-00

**Reaction Summary (Down / Uplift) (lbs)**

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	605 / 0	481 / 0		
B1, 3-1/2"	605 / 0	481 / 0		

**Load Summary**

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	05-06-00	Top	40	20			05-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	05-06-00	Top		60			n\A

**Controls Summary**

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1743 ft-lbs	11610 ft-lbs	15.0%	1	02-09-00
End Shear	914 lbs	5785 lbs	15.8%	1	01-01-00
Total Load Deflection	L/999 (0.023")	n\A	n\A	4	02-09-00
Live Load Deflection	L/999 (0.013")	n\A	n\A	5	02-09-00
Max Defl.	0.023"	n\A	n\A	4	02-09-00
Span / Depth	6.4				

**Bearing Supports**

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1508 lbs	40.0%	20.2%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1508 lbs	40.0%	20.2%	Spruce-Pine-Fir

**Notes**

Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.  
 Design meets User specified (1") Maximum Total load deflection criteria.  
 Calculations assume member is fully braced.  
 Resistance Factor phi has been applied to all presented results per CSA O86.  
 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
 Design based on Dry Service Condition.  
 Importance Factor : Normal Part code : Part 4


**Disclosure**

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

**SE007901**



## B39 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

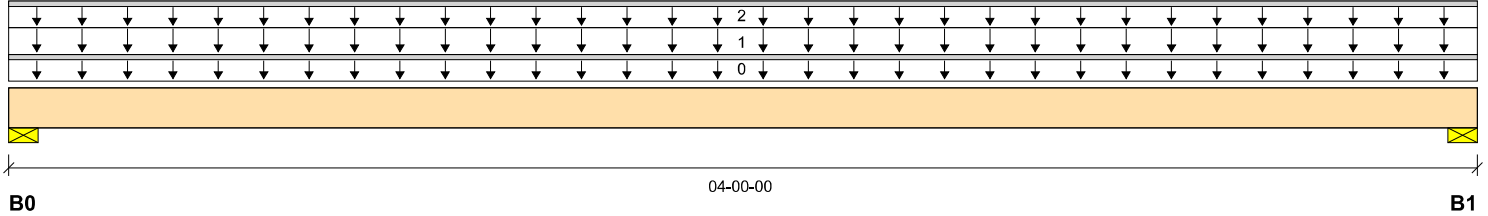
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 04-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	440 / 0	350 / 0		
B1, 3-1/2"	440 / 0	350 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	04-00-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top	40	20			05-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	04-00-00	Top		60			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	860 ft-lbs	11610 ft-lbs	7.4%	1	02-00-00
End Shear	503 lbs	5785 lbs	8.7%	1	01-01-00
Total Load Deflection	L/999 (0.006")	n/a	n/a	4	02-00-00
Live Load Deflection	L/999 (0.003")	n/a	n/a	5	02-00-00
Max Defl.	0.006"	n/a	n/a	4	02-00-00
Span / Depth	4.5				

## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	1097 lbs	29.1%	14.7%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1097 lbs	29.1%	14.7%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4



## Disclosure

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SE007902

BC CALC® Member Report

## B40 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

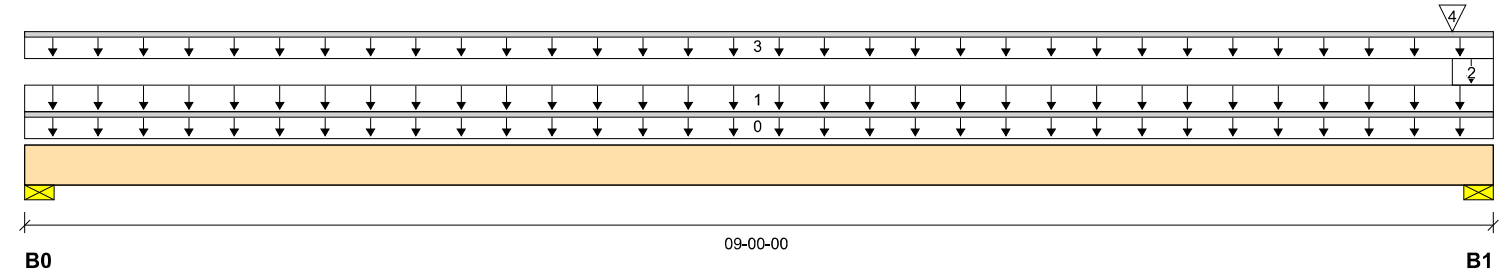
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



### Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	660 / 0	654 / 0		
B1, 3-1/2"	3035 / 0	1885 / 0		

### Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		12			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	09-00-00	Top	40	20			03-08-00
2		Unf. Area (lb/ft²)	L	08-09-00	09-00-00	Top	40	20			12-06-00
3		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		60			n/a
4		Conc. Pt. (lbs)	L	08-09-00	08-09-00	Top	2250	1168			n/a

### Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	3664 ft-lbs	35392 ft-lbs	10.4%	1	04-06-00
End Shear	1293 lbs	14464 lbs	8.9%	1	01-03-06
Total Load Deflection	L/999 (0.036")	n/a	n/a	4	04-06-00
Live Load Deflection	L/999 (0.018")	n/a	n/a	5	04-06-00
Max Defl.	0.036"	n/a	n/a	4	04-06-00
Span / Depth	8.6				

Bearing Supports	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1808 lbs	24.0%	12.1%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	6909 lbs	91.7%	46.2%	Spruce-Pine-Fir

### Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.  
 Design meets User specified (1") Maximum Total load deflection criteria.  
 Calculations assume member is fully braced.  
 Resistance Factor phi has been applied to all presented results per CSA O86.  
 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
 Design based on Dry Service Condition.  
 Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
 STAGGERED IN 2 ROWS





BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

## B41 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

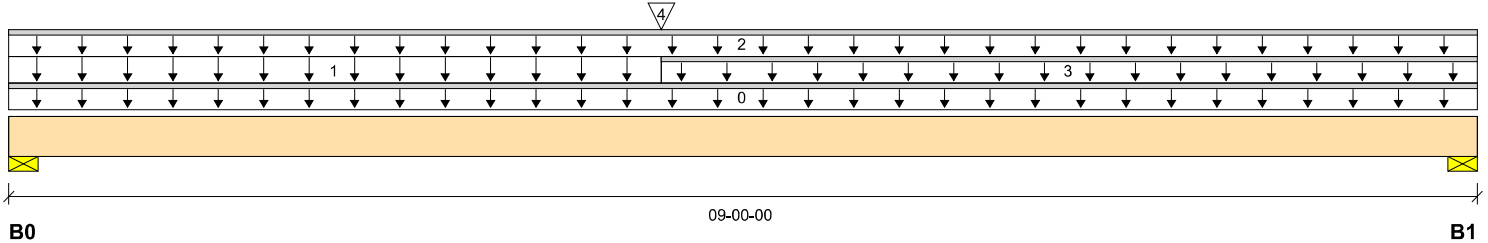
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1403 / 0	789 / 0		
B1, 3-1/2"	737 / 0	504 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		6			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top	40	15			07-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top	27	14			n/a
3		Unf. Lin. (lb/ft)	L	04-00-00	09-00-00	Top	27	14			n/a
4		Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	642	623			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6737 ft-lbs	17696 ft-lbs	38.1%	1	04-00-00
End Shear	2301 lbs	7232 lbs	31.8%	1	01-03-06
Total Load Deflection	L/999 (0.113")	n/a	n/a	4	04-04-03
Live Load Deflection	L/999 (0.068")	n/a	n/a	5	04-02-13
Max Defl.	0.113"	n/a	n/a	4	04-04-03
Span / Depth	8,6				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3091 lbs	82.0%	41.4%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1735 lbs	46.0%	23.2%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

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

SE007904

## B42 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

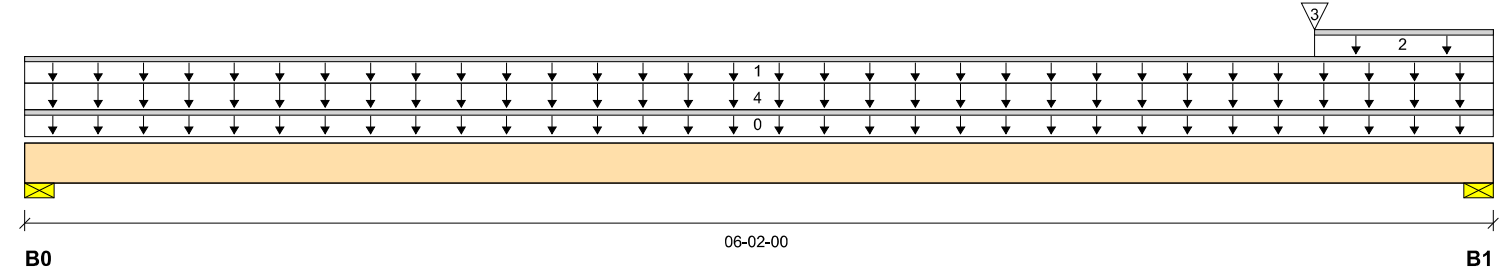
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	631 / 0	558 / 0		
B1, 3-1/2"	1323 / 0	1089 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-02-00	Top		12			00-00-00
1		Unf. Lin. (lb/ft)	L	00-00-00	06-02-00	Top		60			n/a
2		Unf. Lin. (lb/ft)	L	05-05-00	06-02-00	Top	27	14			n/a
3		Conc. Pt. (lbs)	L	05-05-00	05-05-00	Top	824	637			n/a
4		Unf. Area (lb/ft²)	L	00-00-00	06-02-00	Top	40	20			04-06-00

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	2495 ft-lbs	35392 ft-lbs	7.1%	1	03-05-12
End Shear	1632 lbs	14464 lbs	11.3%	1	04-10-10
Total Load Deflection	L/999 (0.011")	n/a	n/a	4	03-02-06
Live Load Deflection	L/999 (0.006")	n/a	n/a	5	03-02-06
Max Defl.	0.011"	n/a	n/a	4	03-02-06
Span / Depth	5.8				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	1644 lbs	21.8%	11.0%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	3346 lbs	44.4%	22.4%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
 Design meets Code minimum (L/360) Live load deflection criteria.  
 Design meets User specified (1") Maximum Total load deflection criteria.  
 Calculations assume member is fully braced.  
 Resistance Factor phi has been applied to all presented results per CSA O86.  
 BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
 Design based on Dry Service Condition.  
 Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 12" O/C,  
 STAGGERED IN 2 ROWS

BC CALC® Member Report

Dry | 1 span | No cant.

March 25, 2020 15:28:29

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

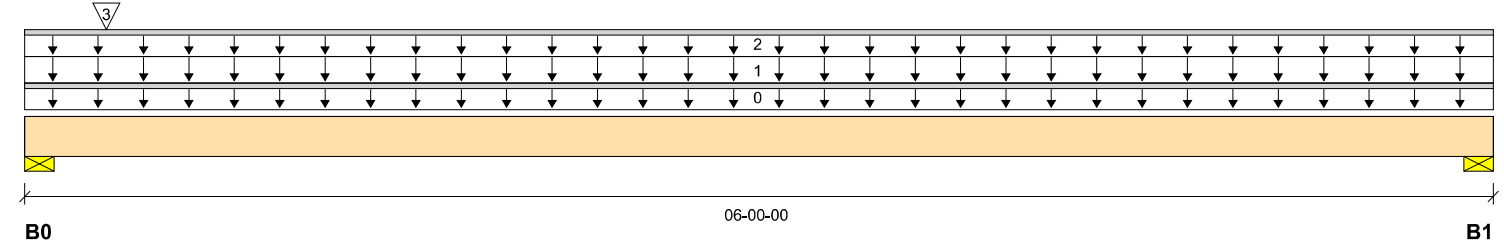
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 06-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	2790 / 0	1647 / 0		
B1, 3-1/2"	540 / 0	479 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	06-00-00	Top		10			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	06-00-00	Top	40	20			04-06-00
2		Unf. Lin. (lb/ft)	L	00-00-00	06-00-00	Top		60			n/a
3		Conc. Pt. (lbs)	L	00-04-00	00-04-00	Top	2250	1168			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/Resistance	Case	Location
Pos. Moment	1802 ft-lbs	23220 ft-lbs	7.8%	1	03-00-00
End Shear	900 lbs	11571 lbs	7.8%	1	01-01-00
Total Load Deflection	L/999 (0.014")	n/a	n/a	4	03-00-00
Live Load Deflection	L/999 (0.008")	n/a	n/a	5	03-00-00
Max Defl.	0.014"	n/a	n/a	4	03-00-00
Span / Depth	7.0				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/Resistance Support	Demand/Resistance Member	Material
B0	Wall/Plate 3-1/2" x 3-1/2"	6244 lbs	82.8%	41.8%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 3-1/2"	1409 lbs	18.7%	9.4%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

NAIL ONE PLY TO ANOTHER WITH 3-1/2" SPIRAL NAILS @ 6" O/C,  
STAGGERED IN 2 ROWS

## B44 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

BC CALC® Member Report

Build 7555

Job name: 45147 (5005)

File name: 318279

Address: Pine Valley

Description: First Floor Framing

City, Province, Postal Code: Vaughan, ON

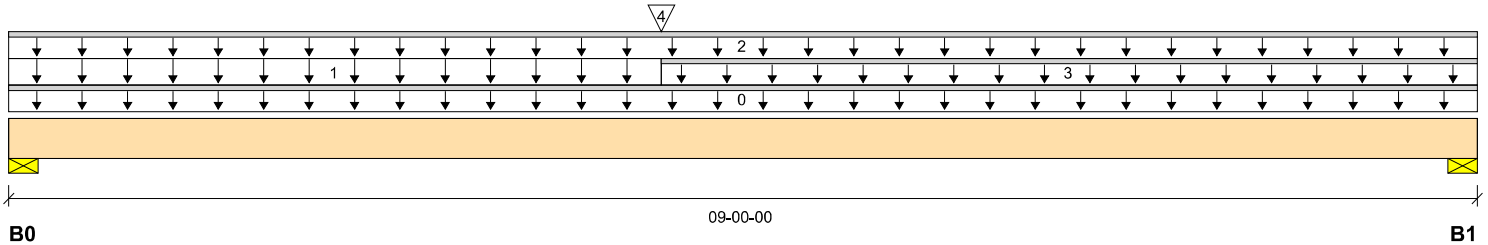
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

## Reaction Summary (Down / Uplift) (lbs)

Bearing	Live	Dead	Snow	Wind
B0, 3-1/2"	1403 / 0	784 / 0		
B1, 3-1/2"	737 / 0	498 / 0		

## Load Summary

Tag	Description	Load Type	Ref.	Start	End	Loc.	Live 1.00	Dead 0.65	Snow 1.00	Wind 1.15	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top		5			00-00-00
1		Unf. Area (lb/ft²)	L	00-00-00	04-00-00	Top	40	15			07-00-00
2		Unf. Lin. (lb/ft)	L	00-00-00	09-00-00	Top	27	14			n/a
3		Unf. Lin. (lb/ft)	L	04-00-00	09-00-00	Top	27	14			n/a
4		Conc. Pt. (lbs)	L	04-00-00	04-00-00	Top	642	623			n/a

## Controls Summary

	Factored Demand	Factored Resistance	Demand/ Resistance	Case	Location
Pos. Moment	6724 ft-lbs	11610 ft-lbs	57.9%	1	04-00-00
End Shear	2418 lbs	5785 lbs	41.8%	1	01-01-00
Total Load Deflection	L/465 (0.22")	n/a	51.6%	4	04-02-15
Live Load Deflection	L/776 (0.132")	n/a	46.4%	5	04-02-15
Max Defl.	0.22"	n/a	22.0%	4	04-02-15
Span / Depth	10.8				



## Bearing Supports

	Dim. (LxW)	Demand	Demand/ Resistance Support	Demand/ Resistance Member	Material
B0	Wall/Plate 3-1/2" x 1-3/4"	3084 lbs	81.9%	41.3%	Spruce-Pine-Fir
B1	Wall/Plate 3-1/2" x 1-3/4"	1728 lbs	45.9%	23.1%	Spruce-Pine-Fir

## Notes

Design meets Code minimum (L/240) Total load deflection criteria.  
Design meets Code minimum (L/360) Live load deflection criteria.  
Design meets User specified (1") Maximum Total load deflection criteria.  
Calculations assume member is fully braced.  
Resistance Factor phi has been applied to all presented results per CSA O86.  
BC CALC® analysis is based on Canadian Limit States Design, as per NBCC 2015 and CSA O86.  
Design based on Dry Service Condition.  
Importance Factor : Normal Part code : Part 4

## Disclosure

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

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

SE007907

## Maximum Floor Spans – M2.1, L/360

### Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	5/8 in. nailed-glued oriented strand board (OSB) sheathing



### Maximum Floor Spans

Joist depth	Joist series	Bare On centre spacing				1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-1"	14'-3"	13'-10"	-	15'-7"	14'-9"	14'-3"	-
	NI-40x	16'-2"	15'-3"	14'-8"	-	16'-7"	15'-8"	15'-1"	-
	NI-60	16'-4"	15'-4"	14'-10"	-	16'-9"	15'-9"	15'-3"	-
	NI-80	17'-3"	16'-3"	15'-8"	-	17'-8"	16'-7"	16'-0"	-
11-7/8"	NI-20	17'-0"	16'-0"	15'-6"	-	17'-6"	16'-7"	16'-0"	-
	NI-40x	18'-2"	17'-1"	16'-6"	-	18'-9"	17'-6"	16'-11"	-
	NI-60	18'-5"	17'-3"	16'-8"	-	19'-0"	17'-8"	17'-1"	-
	NI-80	19'-9"	18'-3"	17'-7"	-	20'-4"	18'-10"	18'-0"	-
	NI-90	20'-2"	18'-8"	17'-10"	-	20'-9"	19'-2"	18'-4"	-
14"	NI-40x	20'-1"	18'-8"	17'-10"	-	20'-10"	19'-4"	18'-6"	-
	NI-60	20'-6"	18'-11"	18'-2"	-	21'-2"	19'-8"	18'-9"	-
	NI-80	21'-11"	20'-3"	19'-4"	-	22'-7"	20'-11"	20'-0"	-
	NI-90	22'-5"	20'-8"	19'-9"	-	23'-0"	21'-4"	20'-4"	-
16"	NI-60	22'-4"	20'-8"	19'-9"	-	23'-1"	21'-5"	20'-6"	-
	NI-80	23'-11"	22'-1"	21'-1"	-	24'-8"	22'-10"	21'-9"	-
	NI-90	24'-5"	22'-6"	21'-6"	-	25'-1"	23'-2"	22'-2"	-

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	16'-11"	15'-5"	14'-6"	-	17'-1"	15'-5"	14'-6"	-
	NI-40x	17'-11"	17'-0"	16'-5"	-	18'-5"	17'-4"	16'-7"	-
	NI-60	18'-2"	17'-1"	16'-6"	-	18'-8"	17'-6"	16'-10"	-
	NI-80	19'-5"	18'-0"	17'-5"	-	19'-10"	18'-5"	17'-8"	-
11-7/8"	NI-20	19'-7"	18'-2"	17'-6"	-	20'-3"	18'-8"	17'-6"	-
	NI-40x	21'-1"	19'-7"	18'-8"	-	21'-8"	20'-2"	19'-0"	-
	NI-60	21'-4"	19'-9"	18'-11"	-	21'-11"	20'-5"	19'-6"	-
	NI-80	22'-9"	21'-1"	20'-2"	-	23'-3"	21'-8"	20'-8"	-
	NI-90	23'-3"	21'-6"	20'-6"	-	23'-9"	22'-0"	21'-0"	-
14"	NI-40x	23'-8"	21'-11"	20'-11"	-	24'-4"	22'-8"	20'-11"	-
	NI-60	24'-0"	22'-3"	21'-3"	-	24'-8"	22'-11"	21'-11"	-
	NI-80	25'-7"	23'-9"	22'-7"	-	26'-2"	24'-4"	23'-3"	-
	NI-90	26'-1"	24'-2"	23'-0"	-	26'-8"	24'-9"	23'-7"	-
16"	NI-60	26'-5"	24'-6"	23'-5"	-	27'-2"	25'-3"	24'-2"	-
	NI-80	28'-2"	26'-1"	24'-10"	-	28'-10"	26'-9"	25'-6"	-
	NI-90	28'-8"	26'-6"	25'-3"	-	29'-3"	27'-2"	25'-11"	-

### Notes:

- The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.

## Maximum Floor Spans – M4.1, L/360

### Design Criteria

Spans:	Simple span
Loads:	Live load = 40 psf and dead load = 20 psf
Deflection limits:	L/360 under live load and L/240 under total load
Sheathing:	3/4 in. nailed-glued oriented strand board (OSB) sheathing



### Maximum Floor Spans

Joist depth	Joist series	Bare On centre spacing				1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	15'-11"	15'-0"	14'-6"	13'-5"	16'-5"	15'-5"	14'-6"	13'-5"
	NI-40x	17'-0"	16'-0"	15'-5"	14'-10"	17'-5"	16'-5"	15'-10"	14'-11"
	NI-60	17'-2"	16'-2"	15'-7"	14'-11"	17'-7"	16'-7"	16'-0"	15'-4"
	NI-80	18'-3"	17'-1"	16'-5"	15'-9"	18'-8"	17'-5"	16'-9"	16'-1"
11-7/8"	NI-20	17'-11"	16'-11"	16'-3"	15'-8"	18'-7"	17'-5"	16'-10"	16'-1"
	NI-40x	19'-4"	17'-11"	17'-3"	16'-7"	19'-11"	18'-6"	17'-9"	17'-0"
	NI-60	19'-7"	18'-2"	17'-6"	16'-9"	20'-2"	18'-9"	17'-11"	17'-2"
	NI-80	21'-1"	19'-6"	18'-6"	17'-7"	21'-7"	20'-0"	19'-0"	18'-0"
	NI-90	21'-6"	19'-10"	18'-11"	17'-11"	22'-0"	20'-4"	19'-5"	18'-4"
14"	NI-40x	21'-5"	19'-11"	18'-11"	18'-0"	22'-1"	20'-7"	19'-7"	18'-7"
	NI-60	21'-10"	20'-2"	19'-3"	18'-3"	22'-6"	20'-10"	19'-11"	18'-10"
	NI-80	23'-5"	21'-7"	20'-7"	19'-5"	24'-0"	22'-3"	21'-2"	20'-0"
	NI-90	23'-10"	22'-1"	21'-0"	19'-10"	24'-5"	22'-7"	21'-6"	20'-4"
16"	NI-60	23'-9"	22'-0"	21'-0"	19'-10"	24'-6"	22'-9"	21'-8"	20'-7"
	NI-80	25'-6"	23'-7"	22'-5"	21'-2"	26'-2"	24'-3"	23'-1"	21'-10"
	NI-90	26'-0"	24'-0"	22'-10"	21'-6"	26'-7"	24'-8"	23'-5"	22'-2"

Joist depth	Joist series	Mid-span blocking with 1x4 inch strap On centre spacing				Mid-span blocking and 1/2 in. gypsum ceiling On centre spacing			
		12"	16"	19.2"	24"	12"	16"	19.2"	24"
9-1/2"	NI-20	17'-1"	15'-5"	14'-6"	13'-5"	17'-1"	15'-5"	14'-6"	13'-5"
	NI-40x	18'-8"	17'-6"	16'-7"	14'-11"	19'-2"	17'-8"	16'-7"	14'-11"
	NI-60	18'-11"	17'-8"	16'-10"	15'-7"	19'-5"	18'-0"	16'-10"	15'-7"
	NI-80	20'-3"	18'-10"	17'-11"	17'-2"	20'-8"	19'-3"	18'-4"	17'-5"
11-7/8"	NI-20	20'-3"	18'-8"	17'-6"	16'-1"	20'-7"	18'-8"	17'-6"	16'-1"
	NI-40x	21'-10"	20'-4"	19'-0"	17'-0"	22'-5"	20'-10"	19'-0"	17'-0"
	NI-60	22'-1"	20'-7"	19'-8"	18'-7"	22'-8"	21'-2"	20'-3"	18'-8"
	NI-80	23'-8"	22'-0"	20'-11"	19'-10"	24'-1"	22'-6"	21'-6"	20'-4"
	NI-90	24'-1"	22'-5"	21'-4"	20'-2"	24'-7"	22'-11"	21'-10"	20'-8"
14"	NI-40x	24'-5"	22'-9"	20'-11"	18'-8"	25'-1"	22'-11"	20'-11"	18'-8"
	NI-60	24'-10"	23'-2"	22'-1"	20'-10"	25'-6"	23'-10"	22'-9"	21'-4"
	NI-80	26'-6"	24'-8"	23'-6"	22'-2"	27'-1"	25'-3"	24'-1"	22'-9"
	NI-90	27'-0"	25'-1"	23'-11"	22'-7"	27'-6"	25'-8"	24'-6"	23'-2"
16"	NI-60	27'-3"	25'-5"	24'-3"	22'-11"	28'-0"	26'-2"	25'-0"	23'-1"
	NI-80	29'-1"	27'-1"	25'-9"	24'-4"	29'-8"	27'-9"	26'-5"	25'-0"
	NI-90	29'-7"	27'-6"	26'-2"	24'-9"	30'-2"	28'-2"	26'-10"	25'-5"

### Notes:

- The tabulated clear spans are based on CSA O86-14 and NBC 2015, and are applicable to residential floor construction meeting the above design criteria.
- For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
- Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
- Nordic I-joists are listed in CCMC Evaluation Report 13032-R and APA Product Report PR-L274C.



The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

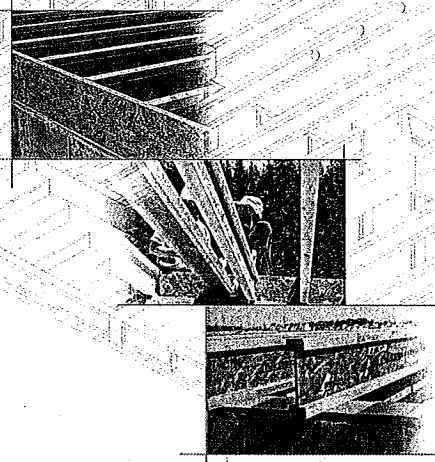
Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

(Nordic Request 1810-095)

# NORDIC ENGINEERED WOOD

## INSTALLATION GUIDE FOR RESIDENTIAL FLOORS



Distributed by:



### INSTALLING NORDIC I-JOISTS

- Before laying out floor system components, verify that I-joist flange widths match hanger widths. If not, contact your supplier.
- Except for cutting to length, I-joist flanges should never be cut, drilled, or notched.
- Install I-joists so that top and bottom flanges are within 1/2 inch of true vertical alignment.
- I-joists must be anchored securely to supports before floor sheathing is attached, and supports for multiple-span joists must be level.
- Minimum bearing lengths: 1-3/4 inches for end bearings and 3-1/2 inches for intermediate bearings.
- When using hangers, seat I-joists firmly in hanger bottoms to minimize settlement.
- Leave a 1/16-inch gap between the I-joist end and a header.
- Concentrated loads greater than those that can normally be expected in residential construction should only be applied to the top surface of the top flange. Normal concentrated loads include track lighting fixtures, audio equipment and security cameras. Never suspend unusual or heavy loads from the I-joist's bottom flange. Whenever possible, suspend all concentrated loads from the top of the I-joist. Or, attach the load to blocking that has been securely fastened to the I-joist webs.
- Never install I-joists where they will be permanently exposed to weather, or where they will remain in direct contact with concrete or masonry.
- Restrain ends of floor joists to prevent rollover. Use rim board, rim joists or I-joist blocking panels.
- For I-joists installed over and beneath bearing walls, use full depth blocking panels, rim board, or squash blocks (spline members) to transfer gravity loads through the floor system to the wall or foundation below.
- Due to shrinkage, common framing lumber set on edge may never be used as blocking or rim boards. I-joist blocking panels or other engineered wood products – such as rim board – must be cut to fit between the I-joists, and on I-joist-compatible depths selected.
- Provide permanent lateral support of the bottom flange of all I-joists at interior supports of multiple-span joists. Similarly, support the bottom flange of all cantilevered I-joists at the end support next to the cantilever extension. In the completed structure, the gypsum wallboard ceiling provides this lateral support. Until the final finished ceiling is applied, temporary bracing or struts must be used.
- If square-edge panels are used, edges must be supported between I-joists with 2x4 blocking. Glue panels to blocking to minimize squeaks. Blocking is not required under structural finish flooring, such as wood strip flooring, or if a separate underlayment layer is installed.
- Nail spacing: Space nails installed to the flange's top face in accordance with the applicable building code requirements or approved building plans.

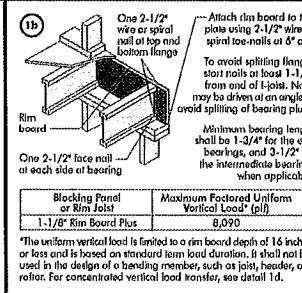
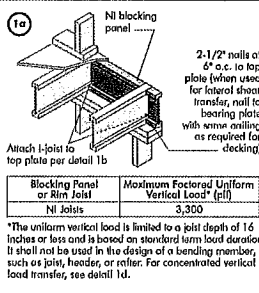
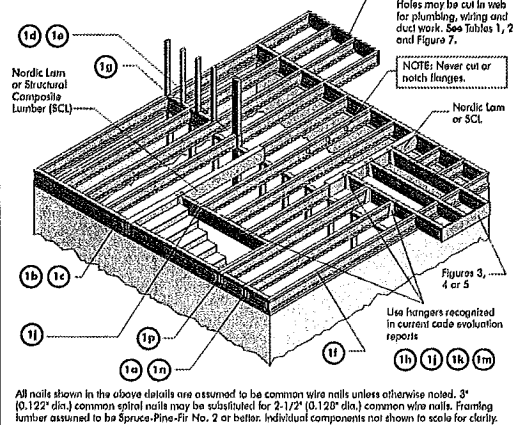


FIGURE 1

### TYPICAL NORDIC I-JOIST FLOOR FRAMING AND CONSTRUCTION DETAILS

Some framing requirements such as erection bracing and blocking panels have been omitted for clarity.



### SAFETY AND CONSTRUCTION PRECAUTIONS



Do not walk on I-joists until fully fastened and braced, or serious injuries can result.



Never stack building materials over unheated I-joists. Once sheathed, do not over-stress I-joist with concentrated loads from building materials.

#### WARNING

I-joists are not stable until completely installed, and will not carry any load until fully braced and sheathed.

#### Avoid Accidents by Following These Important Guidelines:

- Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and/or cross-briding at joist ends. When I-joists are applied continuously over interior supports and a load-bearing wall is planned at that location, blocking will be required at the interior support.
- When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until the sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover or buckling.
  - Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on center, and must be secured with a minimum of two 2-1/2" nails fastened to the top surface of each I-joist. Nail the bracing to a lateral restraint at the end of each bay. Lap ends of adjoining bracing over at least two I-joists.
- For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-briding.
- Install and fully nail permanent sheathing to each I-joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
- Never install a damaged I-joist.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable hole sizes and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.

### STORAGE AND HANDLING GUIDELINES

- Bundle wrap can be slippery when wet. Avoid walking on wrapped bundles.
- Store, stock, and handle I-joists vertically and level only.
- Always stock and handle I-joists in the upright position only.
- Do not store I-joists in direct contact with the ground and/or flammable.
- Protect I-joists from weather, and use spacers to separate bundles.
- Bundled units should be kept intact until time of installation.
- When handling I-joists with a crane on the job site, take a few simple precautions to prevent damage to the I-joists and injury to your work crew.
  - Pick I-joists in bundles as shipped by the supplier.
  - Orient the bundles so that the webs of the I-joists are vertical.
  - Pick the bundles at the 5th points, using a spreader bar if necessary.
- Do not handle I-joists in a horizontal orientation.
- NEVER USE OR TRY TO REPAIR A DAMAGED I-JOIST.





The construction details for residential designs are prone to changes.

Details released after April 2014 supersede N-C301

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

## MAXIMUM FLOOR SPANS

- Maximum clear spans applicable to single-span or multiple-span residential floor construction with a design live load of 40 psf and dead load of 15 psf. The ultimate limit states are based on the factored loads of 1.50L + 1.25D. The serviceability limit states include the consideration for floor vibration and a live load deflection limit of L/480. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
- Spans are based on a composite floor with glued-nailed oriented strand board (OSB) sheathing with a minimum thickness of 5/8 inch for a joist spacing of 19.2 inches or less, or 3/4 inch for joist spacing of 24 inches. Adhesive shall meet the requirements given in COBS-71.26 Standard. No concrete topping or bridging element was assumed. Increased spans may be achieved with the use of gypsum and/or a row of blocking at mid-span.
- Minimum bearing length shall be 1-3/4 inches for the end bearings, and 3-1/2 inches for the intermediate bearings.
- Bearing stiffeners are not required when I-joists are used with the spans and spacings given in this table, except as required for hangers.
- This span chart is based on uniform loads. For applications with other than uniform loads, an engineering analysis may be required based on the use of the design properties.
- Tables are based on Unit Stress Design per CAN/CSA O86-07 Standard, and NBC 2010.
- SI units conversion: 1 inch = 25.4 mm  
1 foot = 0.305 m

## MAXIMUM FLOOR SPANS FOR NORDIC I-JOISTS

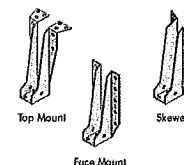
SIMPLE AND MULTIPLE SPANS

Joist Depth	Joist Series	Simple spans					Multiple spans				
		On centre spacing					On centre spacing				
		12"	16"	19.2"	24"		12"	16"	19.2"	24"	
9-1/2"	Ni-20	15'-1"	14'-2"	13'-9"	12'-5"	14'-3"	13'-4"	13'-0"	11'-7"	14'-7"	
	Ni-40	16'-1"	15'-2"	14'-8"	14'-9"	17'-5"	16'-5"	15'-10"	14'-5"	15'-5"	
	Ni-60	16'-3"	15'-4"	14'-10"	14'-11"	17'-7"	16'-7"	16'-0"	14'-6"	16'-6"	
	Ni-80	17'-1"	16'-1"	15'-4"	15'-7"	18'-7"	17'-4"	16'-9"	15'-2"	17'-2"	
11-7/8"	Ni-20	16'-11"	16'-0"	15'-5"	15'-4"	18'-4"	17'-3"	16'-8"	16'-7"	17'-7"	
	Ni-40	18'-1"	17'-0"	16'-5"	16'-8"	20'-0"	18'-9"	17'-9"	17'-7"	18'-7"	
	Ni-60	18'-4"	17'-3"	16'-7"	16'-9"	20'-3"	19'-0"	18'-0"	18'-0"	19'-0"	
	Ni-80	19'-6"	18'-0"	17'-4"	17'-5"	21'-6"	19'-11"	19'-0"	19'-0"	19'-8"	
14"	Ni-20	19'-9"	18'-3"	17'-8"	17'-7"	21'-9"	20'-2"	19'-3"	19'-11"	20'-11"	
	Ni-40	20'-2"	18'-7"	17'-10"	17'-11"	22'-3"	20'-7"	19'-8"	19'-8"	19'-9"	
	Ni-60	20'-4"	18'-9"	17'-11"	18'-0"	22'-5"	20'-9"	19'-10"	19'-10"	20'-5"	
	Ni-80	20'-11"	18'-11"	18'-1"	18'-2"	22'-7"	20'-11"	20'-10"	20'-10"	20'-10"	
16"	Ni-20	20'-5"	18'-11"	18'-1"	18'-2"	22'-7"	20'-11"	20'-10"	20'-10"	20'-10"	
	Ni-40	21'-7"	20'-0"	19'-1"	19'-2"	23'-10"	22'-1"	21'-1"	21'-1"	21'-10"	
	Ni-60	21'-11"	20'-3"	19'-4"	19'-5"	24'-3"	22'-5"	21'-5"	21'-5"	22'-2"	
	Ni-80	22'-5"	20'-8"	19'-9"	19'-9"	24'-9"	22'-10"	21'-10"	21'-10"	21'-10"	
18"	Ni-20	22'-7"	20'-11"	19'-11"	19'-0"	25'-0"	23'-1"	22'-0"	22'-0"	22'-9"	
	Ni-40	22'-3"	20'-8"	19'-9"	19'-9"	24'-9"	22'-10"	21'-10"	21'-10"	21'-10"	
	Ni-60	22'-3"	20'-8"	19'-9"	19'-9"	24'-9"	22'-10"	21'-10"	21'-10"	21'-10"	
	Ni-80	23'-11"	22'-1"	21'-1"	21'-2"	26'-5"	24'-5"	23'-3"	23'-3"	24'-1"	
20"	Ni-20	24'-3"	22'-9"	21'-9"	21'-10"	27'-3"	25'-2"	24'-0"	23'-9"	24'-10"	
	Ni-40	24'-3"	22'-9"	21'-9"	21'-10"	27'-3"	25'-2"	24'-0"	23'-9"	24'-10"	

CCMC EVALUATION REPORT 13032-R

## I-JOIST HANGERS

- Hangers shown illustrate the three most commonly used metal hangers to support I-joists.
- All nailing must meet the hanger manufacturer's recommendations.
- Hangers should be selected based on the joist depth, flange width and load capacity based on the maximum spans.
- Web stiffeners are required when the sides of the hangers do not laterally brace the top flange of the I-joist.



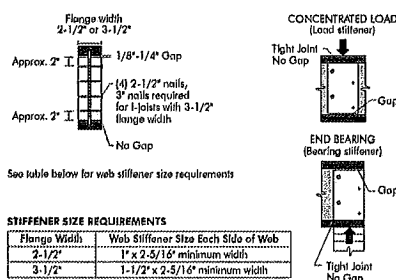
## WEB STIFFENERS

### RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with factored reactions greater than shown in the I-joist properties table found in the I-joist Construction Guide (CIG). The gap between the stiffener and the flange is at the top.
- A bearing stiffener is required when the I-joist is supported in a hanger and the sides of the hanger do not extend up to, and support, the top flange. The gap between the stiffener and flange is at the top.
- A load stiffener is required at locations where a factored concentrated load greater than 2,370 lbs is applied to the top flange between supports, or in the case of a cantilever, anywhere between the cantilever tip and the support. These values are for standard term load duration, and may be adjusted for other load durations as permitted by the code. The gap between the stiffener and the flange is at the bottom.

SI units conversion: 1 inch = 25.4 mm

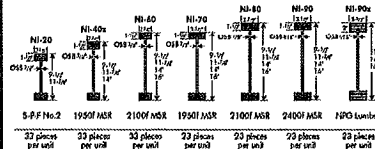
FIGURE 2  
WEB STIFFENER INSTALLATION DETAILS



### STIFFENER SIZE REQUIREMENTS

Flange Width	Web Stiffener Size Each Side of Web
2-1/2"	1" x 2-5/16" minimum width
3-1/2"	1-1/2" x 2-5/16" minimum width

## NORDIC I-JOIST SERIES



Chantiers Chibougamou Ltd. harvests its own trees, which enables Nordic products to adhere to strict quality control procedures throughout the manufacturing process. Every phase of the operation, from forest to the finished product, reflects our commitment to quality.

Nordic Engineered Wood I-joists use only finger-jointed black spruce lumber in their flanges, ensuring consistent quality, superior strength, and longer span carrying capacity.

(Nordic Request 1810-095)



**1o** Transfer load from above to bearing below. Install squish blocks per detail 1d. Match bearing area of blocks below to peak above.

**1f** Use single I-joist for loads up to 3,300 plf, double I-joists for loads up to 6,600 plf (filler block not required). Attach I-joist to top plate using 2-1/2" nails at 6" o.c.

**1g** Load bearing wall above shall align vertically with the bearing below. Other conditions, such as offset bearing walls, are not covered by this detail.

**1h** Backer block (use if hanger load exceeds 360 lbs) Before installing a backer block to a double I-joist, drive three additional 3" nails through the webs and filler block where the backer block will fit. Clinch. Install backer tight to top flange. Use twelve 3" nails, clinched when possible. Maximum factored resistance for hanger for this detail = 1,620 lbs.

**1i** Nordic Lumber or SCL

**1j** Top- or face-mount hanger installed per manufacturer's recommendations. For nailing schedules for multiple beams, see the manufacturer's recommendations. Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

**1k** 2x plate flush with inside face of wall or beam. 1/8" overhang allowed past inside face of wall or beam.

**1l** Top-mount hanger installed per manufacturer's recommendations. Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

**1m** Multiple I-joist header with full depth filler block shown. Nordic Lumber or SCL. Header may also be used. Varily double I-joist capacity to support concentrated loads.

**1n** Do not bowl-cut joist beyond inside face of wall.

**1o** Attach I-joist per detail 1b.

**1p** Notes:  
1. Support back of I-joist web during nailing to prevent damage to web/flange connection.  
2. Leave a 1/8 to 1/4-inch gap between top of filler block and bottom of top I-joist flange.  
3. Filler block is required between joists for full length of spans.  
4. Nail joists together with two rows of 3" nails at 12 inches o.c. (clinched when possible) on each side of the double I-joist. Total of four nails per foot required. If nails can be clinched, only two nails per foot are required.  
5. The maximum factored load that may be applied to one side of the double I-joist using this detail is 840 lb/ft. Verify double I-joist capacity.

**1q** Filler block requirements for double I-joist construction

Flange Size	Joist Depth	Filler Block Size
2-1/2" x 1-1/2"	9-1/2"	2-1/8" x 6"
	11-7/8"	2-1/8" x 8"
	14"	2-1/8" x 10"
	16"	2-1/8" x 12"
3-1/2" x 1-1/2"	9-1/2"	3" x 6"
	11-7/8"	3" x 8"
	14"	3" x 10"
	16"	3" x 12"
3-1/2" x 2"	11-7/8"	3" x 7"
	14"	3" x 9"
	16"	3" x 11"

**1r** Lumber 2x4 min., extend block to face of adjacent web. Two 2-1/2" spical nails from each web to lumber piece, alternate on opposite side.

**1s** One 2-1/2" nails at top and bottom flange. Two 2-1/2" nails from each web to lumber piece. 2x4 min. (1/8" gap minimum). Two 2-1/2" nails from each web to lumber piece. One 2-1/2" nails one side only. 2-1/2" nails at 6" o.c.

**Notes:**  
In some local codes, blocking is prescriptively required in the first joist space (or first and second joist space) next to the starter joist. Where required, see local code requirements for spacing of the blocking.  
All nails are common spiral in this detail.

**1b** Blocking required over all interior supports under load-bearing walls or where floor joists are not continuous over support.

**1c** NI blocking panel per detail 1a.

**1d** 2-1/2" nails at 6" o.c. to top plate.

**1e** NI blocking panel per detail 1a.

**1f** Backer block required (both sides for face-mount hangers).

**1g** Backer block required (both sides for face-mount hangers).

**1h** Backer block required (both sides for face-mount hangers).

**1i** Backer block required (both sides for face-mount hangers).

**1j** Backer block required (both sides for face-mount hangers).

**1k** Backer block required (both sides for face-mount hangers).

**1l** Backer block required (both sides for face-mount hangers).

**1m** Backer block required (both sides for face-mount hangers).

**1n** Backer block required (both sides for face-mount hangers).

**1o** Backer block required (both sides for face-mount hangers).

**1p** Backer block required (both sides for face-mount hangers).

**1q** Backer block required (both sides for face-mount hangers).

**1r** Backer block required (both sides for face-mount hangers).

**1s** Backer block required (both sides for face-mount hangers).

**1t** Backer block required (both sides for face-mount hangers).

**1u** Backer block required (both sides for face-mount hangers).

**1v** Backer block required (both sides for face-mount hangers).

**1w** Backer block required (both sides for face-mount hangers).

**1x** Backer block required (both sides for face-mount hangers).

**1y** Backer block required (both sides for face-mount hangers).

**1z** Backer block required (both sides for face-mount hangers).

The construction details for residential designs are prone to changes.

Details released after April 2014 supersedes N-C301

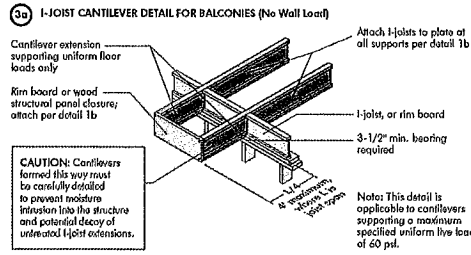
Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

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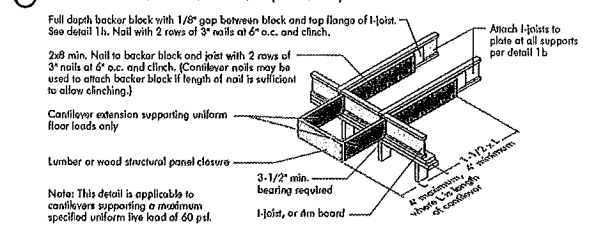
(Nordic Request 1810-095)



### CANTILEVER DETAILS FOR BALCONIES (NO WALL LOAD)



### LUMBER CANTILEVER DETAIL FOR BALCONIES (No Wall Load)



### CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)

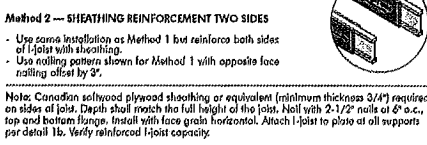
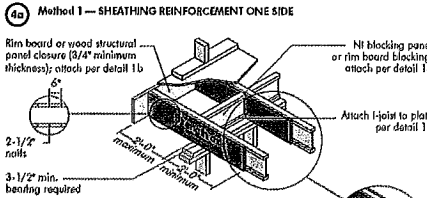


FIGURE 4 (continued)



### CANTILEVER REINFORCEMENT METHODS ALLOWED

Joint Depth (in.)	Roof Truss Span (ft)	ROOF LOADING (UNFACTORED)											
		LL = 30 psf, DL = 15 psf				LL = 40 psf, DL = 15 psf				LL = 50 psf, DL = 15 psf			
		Joint Spacing (in.)				Joint Spacing (in.)				Joint Spacing (in.)			
		12	16	19.2	24	12	16	19.2	24	12	16	19.2	24
9-1/2	26	N	N	N	N	N	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N	N	N	N	N	N
11-7/8	26	N	N	N	N	N	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N	N	N	N	N	N
14	26	N	N	N	N	N	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N	N	N	N	N	N
16	26	N	N	N	N	N	N	N	N	N	N	N	N
	28	N	N	N	N	N	N	N	N	N	N	N	N
	30	N	N	N	N	N	N	N	N	N	N	N	N
	32	N	N	N	N	N	N	N	N	N	N	N	N
	34	N	N	N	N	N	N	N	N	N	N	N	N

- N = No reinforcement required.
- N1 = Reinforced with 3/4\"/>

### BRICK CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)

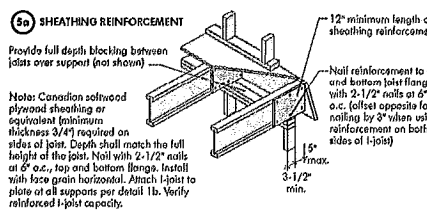


FIGURE 5 (continued)



### BRICK CANTILEVER REINFORCEMENT METHODS ALLOWED

Joint Depth (in.)	Roof Truss Span (ft)	ROOF LOADING (UNFACTORED)											
		LL = 30 psf, DL = 15 psf				LL = 40 psf, DL = 15 psf				LL = 50 psf, DL = 15 psf			
		Joint Spacing (in.)				Joint Spacing (in.)				Joint Spacing (in.)			
		12	16	19.2	24	12	16	19.2	24	12	16	19.2	24
9-1/2	26	1	X	X	X	2	X	X	X	2	X	X	X
	28	1	X	X	X	2	X	X	X	2	X	X	X
	30	1	X	X	X	2	X	X	X	2	X	X	X
	32	2	X	X	X	2	X	X	X	2	X	X	X
	34	2	X	X	X	2	X	X	X	2	X	X	X
11-7/8	26	1	X	X	X	2	X	X	X	2	X	X	X
	28	1	X	X	X	2	X	X	X	2	X	X	X
	30	1	X	X	X	2	X	X	X	2	X	X	X
	32	1	X	X	X	2	X	X	X	2	X	X	X
	34	1	X	X	X	2	X	X	X	2	X	X	X
14	26	1	X	X	X	2	X	X	X	2	X	X	X
	28	1	X	X	X	2	X	X	X	2	X	X	X
	30	1	X	X	X	2	X	X	X	2	X	X	X
	32	1	X	X	X	2	X	X	X	2	X	X	X
	34	1	X	X	X	2	X	X	X	2	X	X	X
16	26	1	X	X	X	2	X	X	X	2	X	X	X
	28	1	X	X	X	2	X	X	X	2	X	X	X
	30	1	X	X	X	2	X	X	X	2	X	X	X
	32	1	X	X	X	2	X	X	X	2	X	X	X
	34	1	X	X	X	2	X	X	X	2	X	X	X

- N = No reinforcement required.
- N1 = Reinforced with 3/4\"/>

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Details released after April 2014 supersedes N-C301

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

## WEB HOLES

## RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS:

1. The distance between the inside edge of the support and the centreline of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
2. I-joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field-cut holes should be centred on the middle of the web.
4. The maximum size hole or the maximum depth of a duct chase opening that can be cut into an I-joist web shall equal the clear distance between the flanges of the I-joist minus 1/4 inch. A minimum of 1/8 inch shall always be maintained between the top or bottom of the hole or opening and the adjacent I-joist flange.
5. The sides of square holes or longest sides of rectangular holes should not exceed 3/4 of the diameter of the maximum round hole permitted at that location.
6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the longest rectangular hole or duct chase opening) and each hole and duct chase opening shall be sized and located in compliance with the requirements of Tables 1 and 2, respectively.
7. A knockout is not considered a hole, may be utilized anywhere it occurs, and may be ignored for purposes of calculating minimum distances between holes and/or duct chase openings.
8. Holes measuring 1-1/2 inches or smaller shall be permitted anywhere in a continuous section of a joist. Holes of greater size may be permitted subject to verification.
9. A 1-1/2 inch hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
10. All holes and duct chase openings shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 7.
11. Limit three maximum size holes per span, of which one may be a duct chase opening.
12. A group of round holes at approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

TABLE 1  
LOCATION OF CIRCULAR HOLES IN JOIST WEBS  
Simple or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 40 psf

Joist Depth	Joist Series	Minimum distance from inside face of any support to centre of hole (8 in.)												Span adjustment factor
		2	3	4	5	6	6-1/4	7	8	8-5/8	9	10	10-3/4	
9-1/2"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
11-7/8"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
14"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
16"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5	1.0

1. Above table may be used for I-joist spacing of 24 inches on centre or less.  
2. Hole location distance is measured from inside face of support to centre of hole.  
3. Distances in this chart are based on uniformly loaded joists.

## OPTIONAL:

The above table is based on the I-joist used at first maximum span. If the I-joists are placed at less than their full maximum span (see Maximum Floor Span), the minimum distance from the centreline of the hole to the face of any support (D) as given above may be reduced as follows:

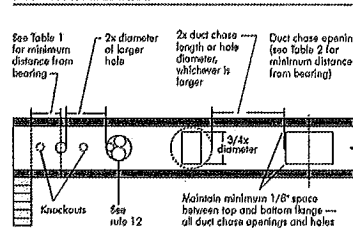
Reduced =  $\frac{\text{Actual Span}}{\text{Full Span}} \times D$

Where:

- Reduced = Distance from the inside face of any support to centre of hole, reduced for first span maximum span applications (D). The reduced distance shall not be less than 6 inches from the face of the support to the edge of the hole.
- Actual = The actual measured span distance between the inside faces of supports (S).
- Full Span = Span Adjustment Factor given in this table.
- D = The minimum distance from the inside face of any support to centre of hole from this table.

If Actual is greater than 1, use 1 in the above calculation for Actual.

FIGURE 7  
FIELD-CUT HOLE LOCATOR



Knockouts are predrilled holes provided for the contractor's convenience to install electrical or small plumbing lines. They are 1-1/2 inches in diameter, and are spaced 15 inches on centre along the length of the I-joist. Where possible, it is preferable to use knockouts instead of field-cut holes.

Never drill, cut or notch the flange, or over-cut the web.

Holes in webs should be cut with a sharp saw.

For rectangular holes, avoid over-cutting the corners, as this can cause unnecessary stress concentrations. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1-inch diameter hole in each of the four corners and then making the cuts between the holes is another good method to minimize damage to the I-joist.

TABLE 2  
DUCT CHASE OPENING SIZES AND LOCATIONS — Simple Span Only

Joist Depth	Joist Series	Minimum distance from inside face of any support to centre of opening (8 in.)											
		8	10	12	14	16	18	20	22	24	26	28	30
9-1/2"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
11-7/8"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
14"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
16"	N100	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N140	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N170	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5
	N200	0.7	1.2	2.0	2.7	3.5	4.2	5.0	5.7	6.4	7.1	7.8	8.5

1. Above table may be used for I-joist spacing of 24 inches on centre or less.
2. Duct chase opening location distance is measured from inside face of support to centre of opening.
3. The above table is based on simple span joists only. For other applications, consult your local distributor.
4. Distances are based on uniform loaded floor joists that meet the span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/400. For other applications, consult your local distributor.

## INSTALLING THE GLUED FLOOR SYSTEM

1. Wipe any mud, dirt, water, or ice from I-joist flanges before gluing.
2. Snap a chalk line across the I-joists four feet from the wall for panel edge alignment and as a boundary for spreading glue.
3. Spread only enough glue to lay one or two panels at a time, or follow specific recommendations from the glue manufacturer.
4. Lay the first panel with tongue side to the wall, and nail in place. This protects the tongue of the next panel from damage when tapped into place with a block and sledgehammer.
5. Apply a continuous line of glue (about 1/4-inch diameter) to the top flange of a single I-joist. Apply glue in a winking pattern on wide areas, such as with double I-joists.
6. Apply two lines of glue on I-joists where panel ends butt to assure proper gluing of each end.
7. After the first row of panels is in place, spread glue in the groove of one or two panels at a time before laying the next row. Glue line may be continuous or spaced, but avoid squeeze-out by applying a thinner line (1/8 inch) than used on I-joist flanges.
8. Tap the second row of panels into place, using a block to protect groove edges.
9. Stagger and joints in each succeeding row of panels. A 1/8-inch space between all joints and 1/8 inch at all edges, including T&G edges, is recommended. (Use a spacer tool or on 2-1/2" common nail to assure accurate and consistent spacing.)
10. Complete all nailing of each panel before glue sets. Check the manufacturer's recommendations for cure time. (Warm weather accelerates glue setting.) Use 2" ring- or screw-shank nails for panels 3/4-inch thick or less, and 2-1/2" ring- or screw-shank nails for thicker panels. Space nails per the table below. Closer nail spacing may be required by some codes, or for diaphragm construction. The finished deck can be walked on right away and will carry construction loads without damage to the glue bond.

FASTENERS FOR SHEATHING AND SUBFLOORING<sup>(1)</sup>

Maximum Joist Spacing (in.)	Minimum Panel Thickness (in.)	Nail Size and Type				Maximum Spacing of Fasteners	
		Common Wire or Spiral Nails	Ring Threaded Nails or Screws	Staples		Edges	Interior Supports
16	5/8	2"	1-3/4"	2"		6"	12"
20	5/8	2"	1-3/4"	2"		6"	12"
24	3/4	2"	1-3/4"	2"		6"	12"

1. Fasteners of sheathing and subflooring shall conform to the above table.
2. Staples shall not be less than 1/16-inch in diameter or thickness, with not less than a 3/8-inch crown driven with the crown parallel to framing.
3. Flooring screws shall not be less than 1/8-inch in diameter.
4. Special conditions may impose heavy traffic and concentrated loads that require construction in excess of the minimums shown.
5. Use only adhesives conforming to CAN/CSB-71.26 Standard, Adhesives for Field-Gluing Plywood to Lumber Framing for Floor System, applied in accordance with the manufacturer's recommendations. If OSB panels with sealed surfaces and edges are to be used, use only solvent-based glues check with panel manufacturer.

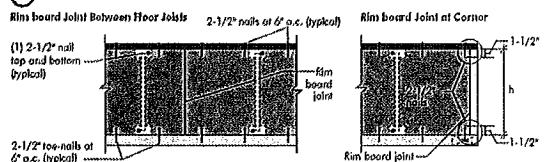
Ref.: NBC-CNBC, National Building Code of Canada 2010, Table 9.23.3.5.

## IMPORTANT NOTE:

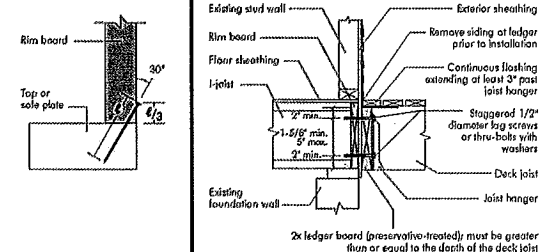
Floor sheathing must be field glued to the I-joist flanges in order to achieve the maximum spans shown in this document. If sheathing is nailed only, I-joist spans must be verified with your local distributor.

## RIM BOARD INSTALLATION DETAILS

## (a) ATTACHMENT DETAILS WHERE RIM BOARDS ABUT



## (b) TOE-NAIL CONNECTION AT RIM BOARD



## PRODUCT WARRANTY

Chandler Cliburnman guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defect in material and workmanship.

Furthermore, Chandler Cliburnman warrants that our products, when installed in accordance with our building and installation instructions, will meet or exceed our specifications for the lifetime of the structure.

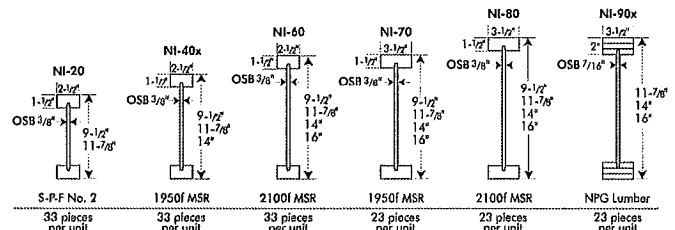


## CONSTRUCTION DETAILS FOR RESIDENTIAL FLOORS

N-C303 / September 2013



Refer to the Installation Guide for Residential Floors for additional information.  
CCMC EVALUATION REPORT 13032-R



## WEB HOLE SPECIFICATIONS

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS:

1. The distance between the inside edge of the support and the centreline of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
2. I-joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field-cut holes should be centred on the middle of the web.
4. The maximum size hole or the maximum depth of a duct chase opening that can be cut into an I-joist web shall equal the clear distance between the flanges of the I-joist minus 1/4 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole or opening and the adjacent I-joist flange.

5. The sides of square holes or longest sides of rectangular holes shall not exceed 3/4 of the diameter of the maximum round hole permitted at that location.
6. Where more than one hole is necessary, the distance between adjacent hole edges shall exceed twice the diameter of the largest round hole or twice the size of the largest square hole (or twice the length of the longest side of the longest rectangular hole/duct chase opening) and each hole and duct chase opening shall be sized and located in compliance with the requirements of Tables 1 and 2, respectively.
7. A knockout is not considered a hole, may be utilized anywhere it occurs, and may be ignored for purposes of calculating minimum distances between holes and/or duct chase openings.
8. Holes measuring 1-1/2 inches or smaller are permitted anywhere in a cantilevered section of a joist. Holes of greater size may be permitted subject to verification.

9. A 1-1/2 inch hole or smaller can be placed anywhere in the web provided that it meets the requirements of rule number 6 above.
10. All holes and duct chase openings shall be cut in a workman-like manner in accordance with the restrictions listed above and as illustrated in Figure 7.
11. Limit three maximum size holes per span, of which one may be a duct chase opening.
12. A group of round holes of approximately the same location shall be permitted if they meet the requirements for a single round hole circumscribed around them.

TABLE 1  
LOCATION OF CIRCULAR HOLES IN JOIST WEBS

Simple or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 40 psf

Joist Depth	Joist Series	Minimum Distance from Inside Face of Any Support to Centre of Hole (ft - in.)											
		Round Hole Diameter (in.)											
9-1/2"	NI-20	0-7"	1-6"	2-10"	4-3"	5-8"	6-0"	---	---	---	---	---	---
	NI-40x	0-7"	1-6"	3-0"	4-4"	6-0"	6-4"	---	---	---	---	---	---
	NI-60	1-3"	2-6"	4-0"	5-4"	7-0"	7-5"	---	---	---	---	---	---
	NI-70	2-0"	3-4"	5-0"	6-3"	8-0"	8-4"	---	---	---	---	---	---
	NI-80	2-3"	3-6"	5-0"	6-3"	8-0"	8-4"	---	---	---	---	---	---
11-7/8"	NI-20	0-7"	0-8"	1-0"	2-4"	3-8"	4-0"	5-0"	6-6"	7-9"	---	---	---
	NI-40x	0-7"	0-8"	1-3"	2-8"	4-0"	4-4"	5-5"	7-0"	8-4"	---	---	---
	NI-60	0-7"	1-8"	3-0"	4-3"	5-9"	6-0"	7-3"	8-10"	10-0"	---	---	---
	NI-70	1-3"	2-6"	4-0"	5-4"	6-9"	7-2"	8-4"	10-0"	11-2"	---	---	---
	NI-80	1-6"	2-10"	4-2"	5-6"	7-0"	7-5"	8-6"	10-3"	11-4"	---	---	---
14"	NI-40x	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	6-6"	8-3"	10-2"
	NI-60	0-7"	0-8"	1-8"	3-0"	4-3"	4-8"	5-8"	7-2"	8-0"	8-8"	10-4"	11-9"
	NI-70	0-8"	1-10"	3-0"	4-5"	5-10"	6-2"	7-3"	8-9"	9-9"	10-4"	12-0"	13-5"
	NI-80	0-10"	2-0"	3-4"	4-9"	6-2"	6-5"	7-6"	9-0"	10-0"	10-8"	12-4"	13-9"
	NI-90x	0-7"	0-8"	0-8"	2-0"	3-9"	4-2"	5-5"	7-3"	8-5"	9-2"	---	---
16"	NI-60	0-7"	0-8"	0-8"	1-6"	2-10"	3-2"	4-2"	5-6"	6-4"	7-0"	8-5"	9-8"
	NI-70	0-7"	1-0"	2-2"	3-6"	4-10"	5-3"	6-3"	7-8"	8-6"	9-2"	10-8"	12-0"
	NI-80	0-7"	1-3"	2-6"	3-10"	5-3"	6-6"	6-6"	8-0"	9-0"	9-5"	11-0"	12-3"
	NI-90x	0-7"	0-8"	0-9"	2-0"	3-6"	4-0"	5-0"	6-9"	7-9"	8-4"	10-2"	11-6"
	NI-90x	0-7"	0-8"	0-9"	2-0"	3-6"	4-0"	5-0"	6-9"	7-9"	8-4"	10-2"	11-6"

1. Above table may be used for I-joist spacing of 24 inches on centre or less.
2. Hole location distance is measured from inside face of supports to centre of hole.
3. Distances in this chart are based on uniformly loaded joists.
4. The above table is based on I-joists being used at their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

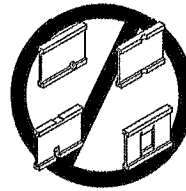
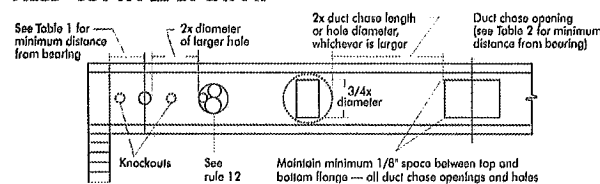
TABLE 2  
DUCT CHASE OPENING SIZES AND LOCATIONS

Simple Span Only

Joist Depth	Joist Series	Minimum Distance from Inside Face of Supports to Centre of Opening (ft - in.)											
		Duct Chase Length (in.)											
9-1/2"	NI-20	4-1"	4-5"	4-10"	5-4"	5-8"	6-1"	6-6"	7-1"	7-5"	---	---	---
	NI-40x	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-6"	---	---	---
	NI-60	5-4"	5-9"	6-2"	6-7"	7-1"	7-5"	8-0"	8-3"	8-9"	---	---	---
	NI-70	5-1"	5-5"	5-10"	6-3"	6-7"	7-1"	7-6"	8-1"	8-4"	---	---	---
	NI-80	5-3"	5-8"	6-0"	6-5"	6-10"	7-3"	7-8"	8-2"	8-6"	---	---	---
11-7/8"	NI-20	5-9"	6-2"	6-6"	7-1"	7-5"	7-9"	8-3"	8-9"	9-4"	---	---	---
	NI-40x	6-8"	7-2"	7-6"	8-1"	8-6"	9-1"	9-6"	10-1"	10-9"	---	---	---
	NI-60	7-3"	7-8"	8-0"	8-6"	9-0"	9-3"	9-9"	10-3"	11-0"	---	---	---
	NI-70	7-1"	7-4"	7-9"	8-3"	8-7"	9-1"	9-6"	10-1"	10-4"	---	---	---
	NI-80	7-2"	7-7"	8-0"	8-5"	8-10"	9-3"	9-8"	10-2"	10-6"	---	---	---
14"	NI-40x	8-1"	8-7"	9-0"	9-6"	10-1"	10-7"	11-2"	12-0"	12-8"	---	---	---
	NI-60	8-9"	9-3"	9-8"	10-1"	10-6"	11-1"	11-6"	12-3"	13-0"	---	---	---
	NI-70	8-7"	9-1"	9-5"	9-10"	10-4"	10-8"	11-2"	11-7"	12-3"	---	---	---
	NI-80	9-0"	9-3"	9-9"	10-1"	10-7"	11-1"	11-6"	12-1"	12-6"	---	---	---
	NI-90x	9-4"	9-9"	10-3"	10-7"	11-1"	11-7"	12-1"	12-7"	13-2"	---	---	---
16"	NI-60	10-3"	10-8"	11-2"	11-6"	12-1"	12-6"	13-2"	14-1"	14-10"	---	---	---
	NI-70	10-1"	10-5"	11-0"	11-4"	11-10"	12-3"	12-8"	13-3"	14-0"	---	---	---
	NI-80	10-4"	10-9"	11-3"	11-9"	12-1"	12-7"	13-1"	13-8"	14-4"	---	---	---
	NI-90x	11-1"	11-5"	12-0"	12-4"	12-10"	13-2"	13-7"	14-3"	15-2"	---	---	---
	NI-90x	11-1"	11-5"	12-0"	12-4"	12-10"	13-2"	13-7"	14-3"	15-2"	---	---	---

1. Above table may be used for I-joist spacing of 24 inches on centre or less.
2. Duct chase opening location distance is measured from inside face of supports to centre of opening.
3. The above table is based on simple-span joists only. For other applications, contact your local distributor.
4. Distances are based on uniformly loaded floor joists that meet the span requirements for a design live load of 40 psf and dead load of 15 psf, and a live load deflection limit of L/480.
5. The above table is based on the I-joists being used at their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

FIGURE 7  
FIELD-CUT HOLE LOCATOR



Knockouts are pre-scored holes provided for the contractor's convenience to install electrical or small plumbing lines. They are 1-1/2 inches in diameter, and are spaced 15 inches on centre along the length of the I-joist. Where possible, it is preferable to use knockouts instead of field-cut holes.

Never drill, cut or notch the flange, or over-cut the web.

Holes in webs should be cut with a sharp saw.

For rectangular holes, avoid over-cutting the corners, as this can cause unnecessary stress concentrations. Slightly rounding the corners is recommended. Starting the rectangular hole by drilling a 1-inch diameter hole in each of the four corners and then making the cuts between the holes is another good method to minimize damage to the joist.

## SAFETY AND CONSTRUCTION PRECAUTIONS



Do not walk on I-joists until fully fastened and braced, or serious injuries can result.



Never stack building materials over unshoed I-joists. Once shoed, do not over-stress I-joists with concentrated loads from building materials.

WARNING: I-joists are not stable until completely installed, and will not carry any load until fully braced and shoed.

## AVOID ACCIDENTS BY FOLLOWING THESE IMPORTANT GUIDELINES:

1. Brace and nail each I-joist as it is installed, using hangers, blocking panels, rim board, and/or cross-briding at joist ends. When I-joists are applied continuous over interior supports and a load-bearing wall is planned at that location, blocking will be required at the interior support.
2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent I-joist rollover or buckling.
  - \* Temporary bracing or struts must be 1x4 inch minimum, at least 8 feet long and spaced no more than 8 feet on centre, and must be secured with a minimum of two 2-1/2" nails fastened to the top surface of each I-joist. Nail the bracing to a lateral restraint at the end of each bay. Top ends of adjoining bracing over at least two I-joists.
  - \* Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay.
3. For cantilevered I-joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-briding.
4. Install and fully nail permanent sheathing to each I-joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
5. Never install a damaged I-joist.

Improper storage or installation, failure to follow applicable building codes, failure to follow span ratings for Nordic I-joists, failure to follow allowable hole sizes and locations, or failure to use web stiffeners when required can result in serious accidents. Follow these installation guidelines carefully.



## PRODUCT WARRANTY

Chantiers Chibougamau guarantees that, in accordance with our specifications, Nordic products are free from manufacturing defects in material and workmanship.

Furthermore, Chantiers Chibougamau warrants that our products, when installed in accordance with our handling and installation instructions, will meet or exceed our specifications for the lifetime of the structure.

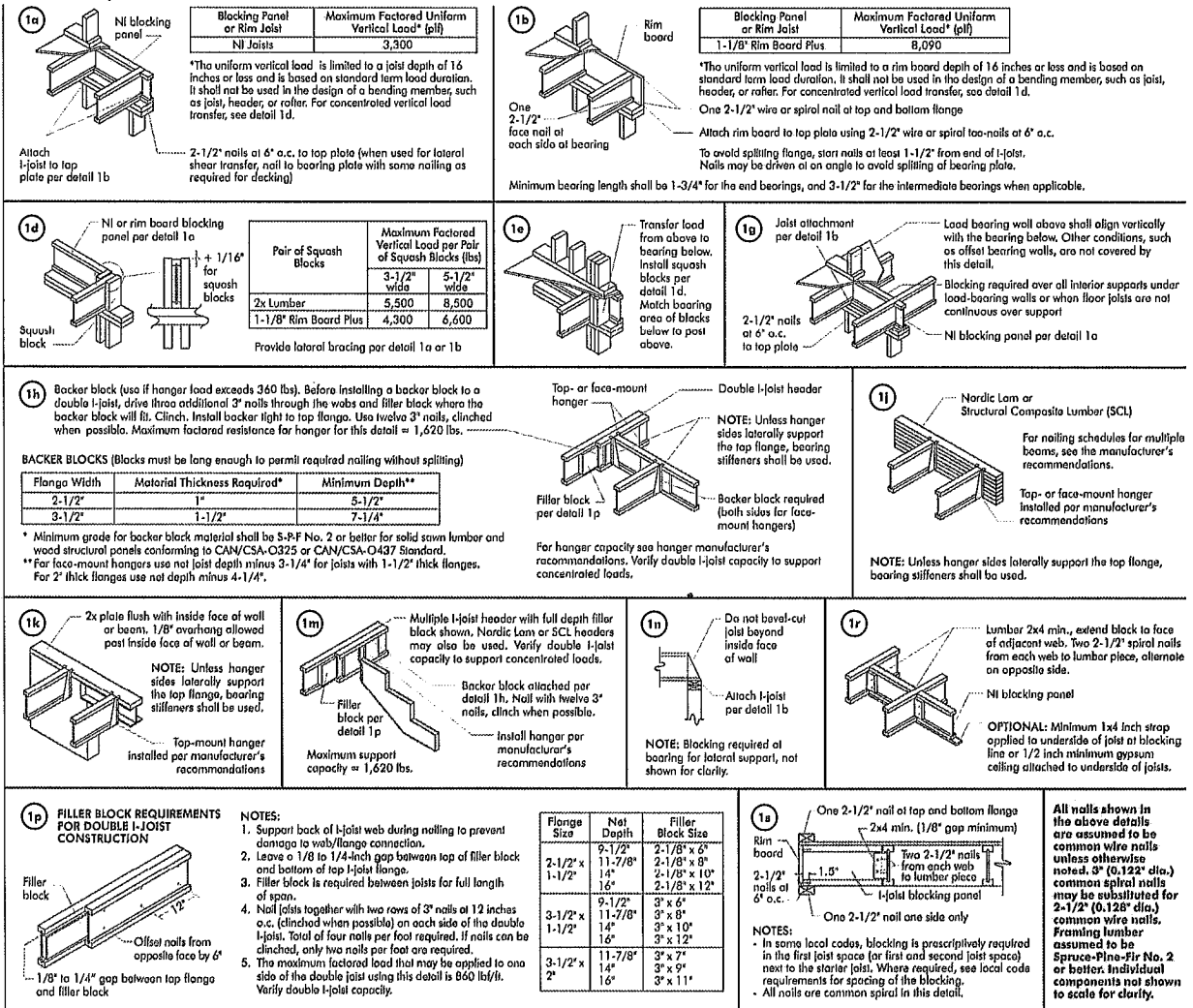
The construction details for residential designs are prone to changes.

Details released after September 2013 supersedes N-303

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

(Nordic Request 1810-095)



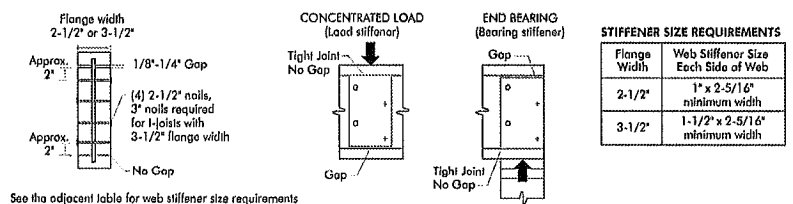
## WEB STIFFENERS

## RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with factored reactions greater than shown in the I-joist properties table found in the I-joist Construction Guide (C101). The gap between the stiffener and the flange is at the top.
- A bearing stiffener is required when the I-joist is supported in a hanger and the sides of the hanger do not extend up to, and support, the top flange. The gap between the stiffener and flange is at the top.
- A load stiffener is required at locations where a factored concentrated load greater than 2,370 lbs is applied to the top flange between supports, or in the case of a cantilever, anywhere between the cantilever tip and the support. These values are for standard term load duration, and may be adjusted for other load durations as permitted by the code. The gap between the stiffener and the flange is at the bottom.

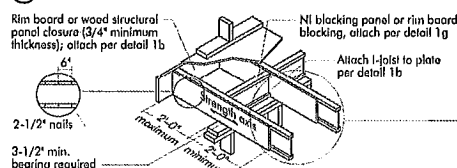
FIGURE 2

## WEB STIFFENER INSTALLATION DETAILS



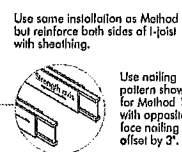
## CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET

## Method 1 — SHEATHING REINFORCEMENT ONE SIDE



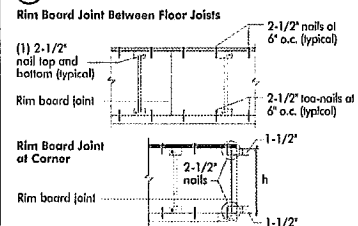
NOTE: Canadian softwood plywood sheathing or equivalent (minimum thickness 3/4") required on sides of joist. Depth shall match the full height of the joist. Nail with 2-1/2" nails at 6" o.c., top and bottom flange. Install with face grain horizontal. Attach I-joist to plate at all supports per detail 1b. Verify reinforced I-joist capacity.

## Method 2 — SHEATHING REINFORCEMENT TWO SIDES

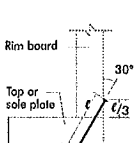


## RIM BOARD INSTALLATION DETAILS

## 8a ATTACHMENT DETAILS WHERE RIM BOARDS ABUT



## 8b TOE-NAIL CONNECTION AT RIM BOARD



The construction details for residential designs are prone to changes.

Details released after September 2013 supersedes N-303

Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

This document does not constitute a record of the structural integrity of the building nor suitability of the design assumptions made. Nordic Structures is responsible only for the structural adequacy of its component based on the design criteria and loadings shown on the calculation sheets.

