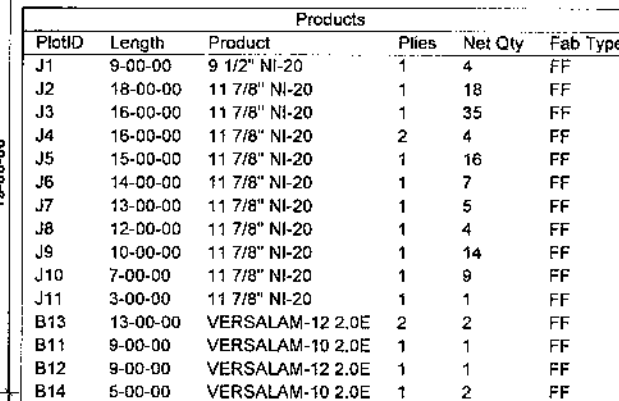
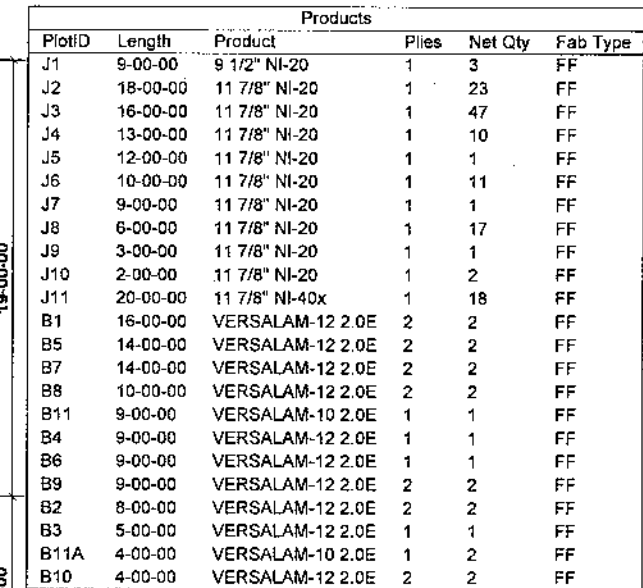




Ceramic Tile

Home Lumber



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

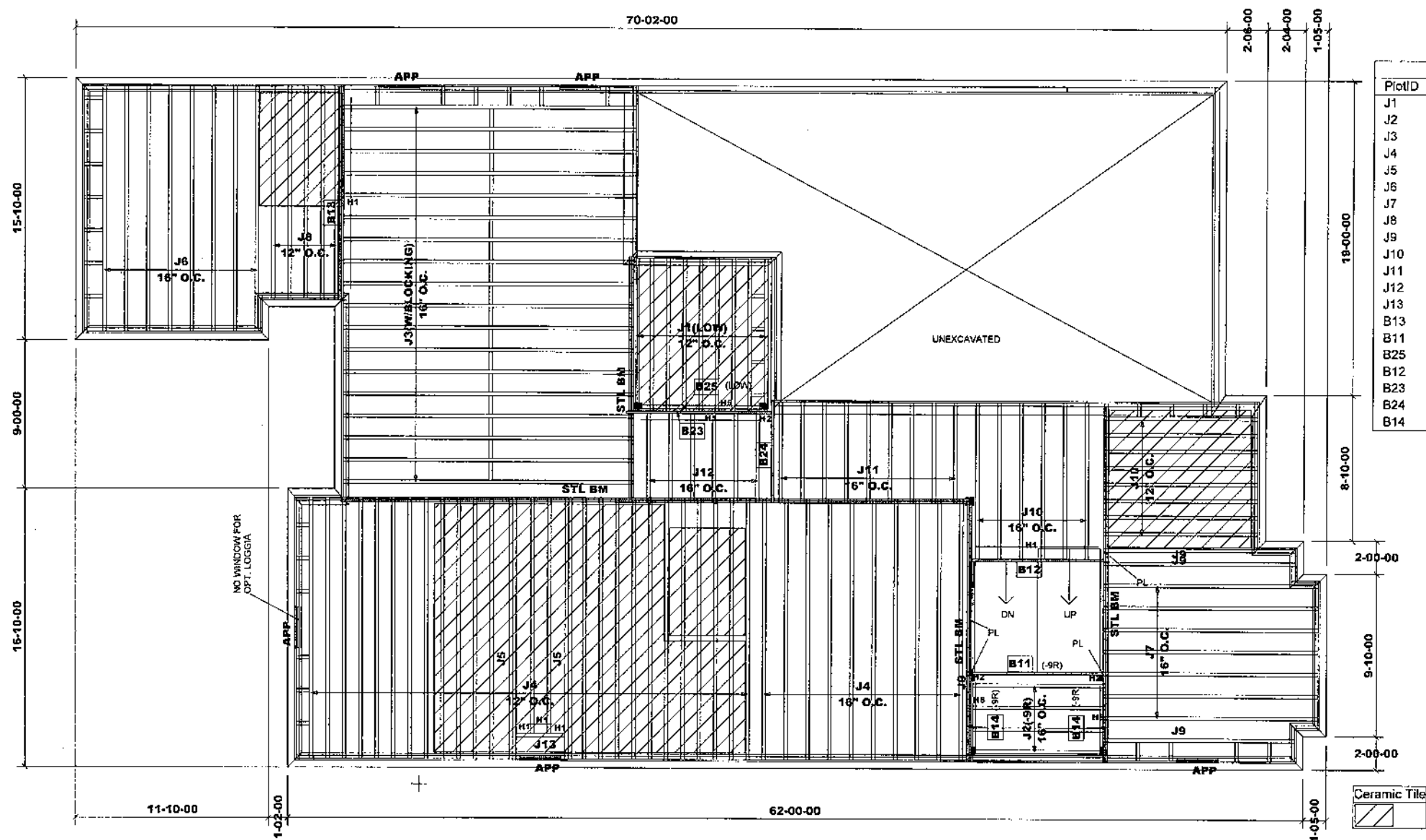
RIMBOARD
1- 1/8" X 9 1/2" O.S.B.
1- 1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED
APP - AS PER PLAN
BBO - BEAM BY OTHERS

Ceramic Tile	
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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.

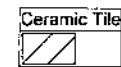
REVISION: March 20, 2020



Products					
PlotID	Length	Product	Pieces	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	18'-00"-00	11 7/8" NI-20	1	35	FF
J5	15'-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

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

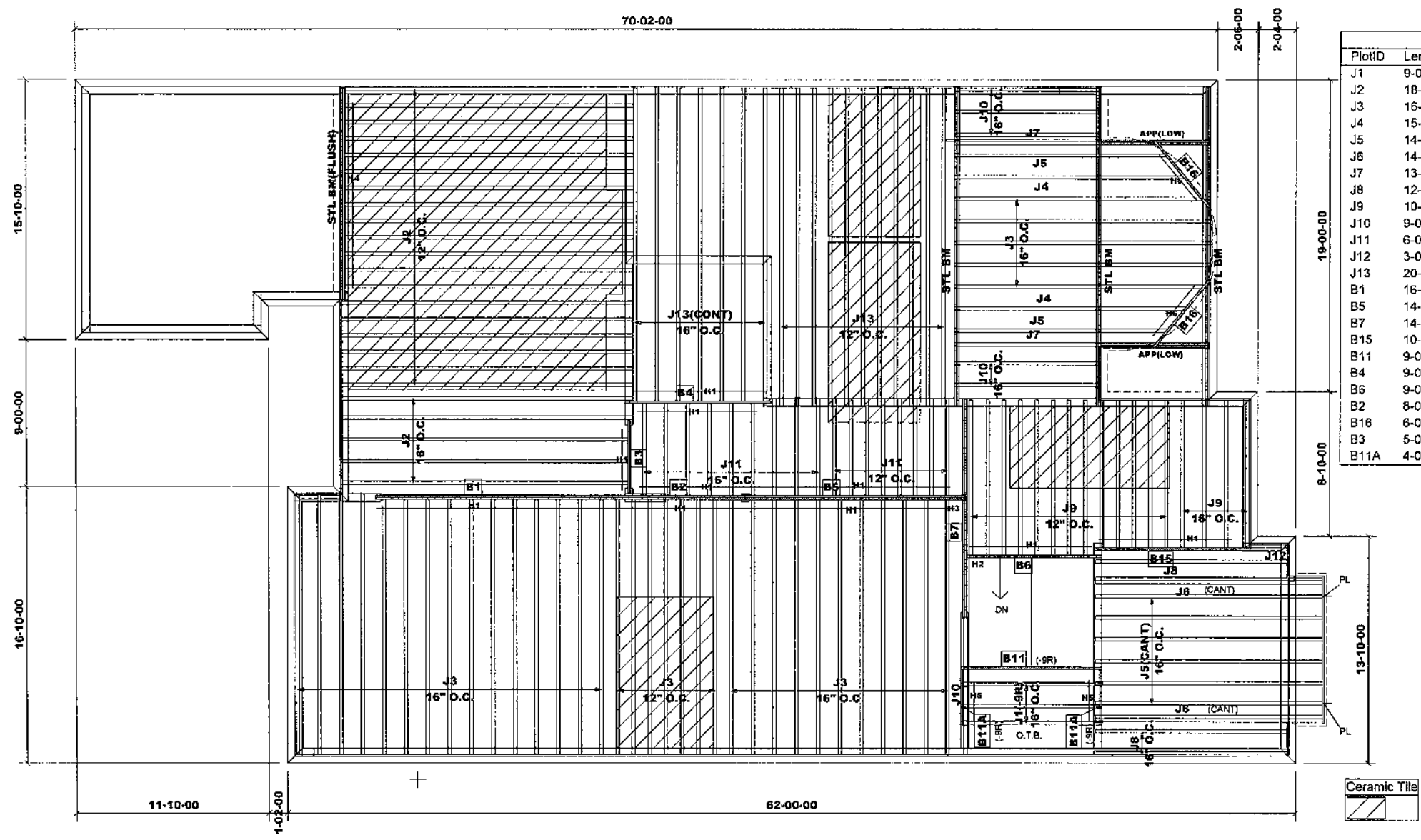
Squash blocks are required under concentrated loads.

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

First Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: January 22, 2018



Products					
PlotID	Length	Product	Pies	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

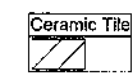
HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)

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

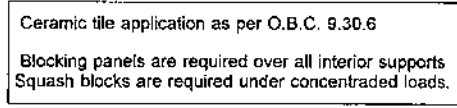
Provide 1-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.

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

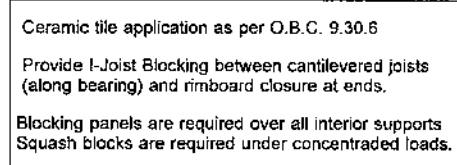
**MODEL: UNIT 5005 - EL.B
 + OPT. SITTING AREA
 + OPT. LOGGIA**

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

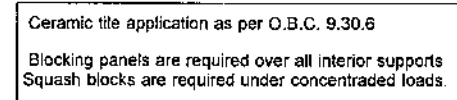
REVISION: March 20, 2020



REVISION: March 24, 2020

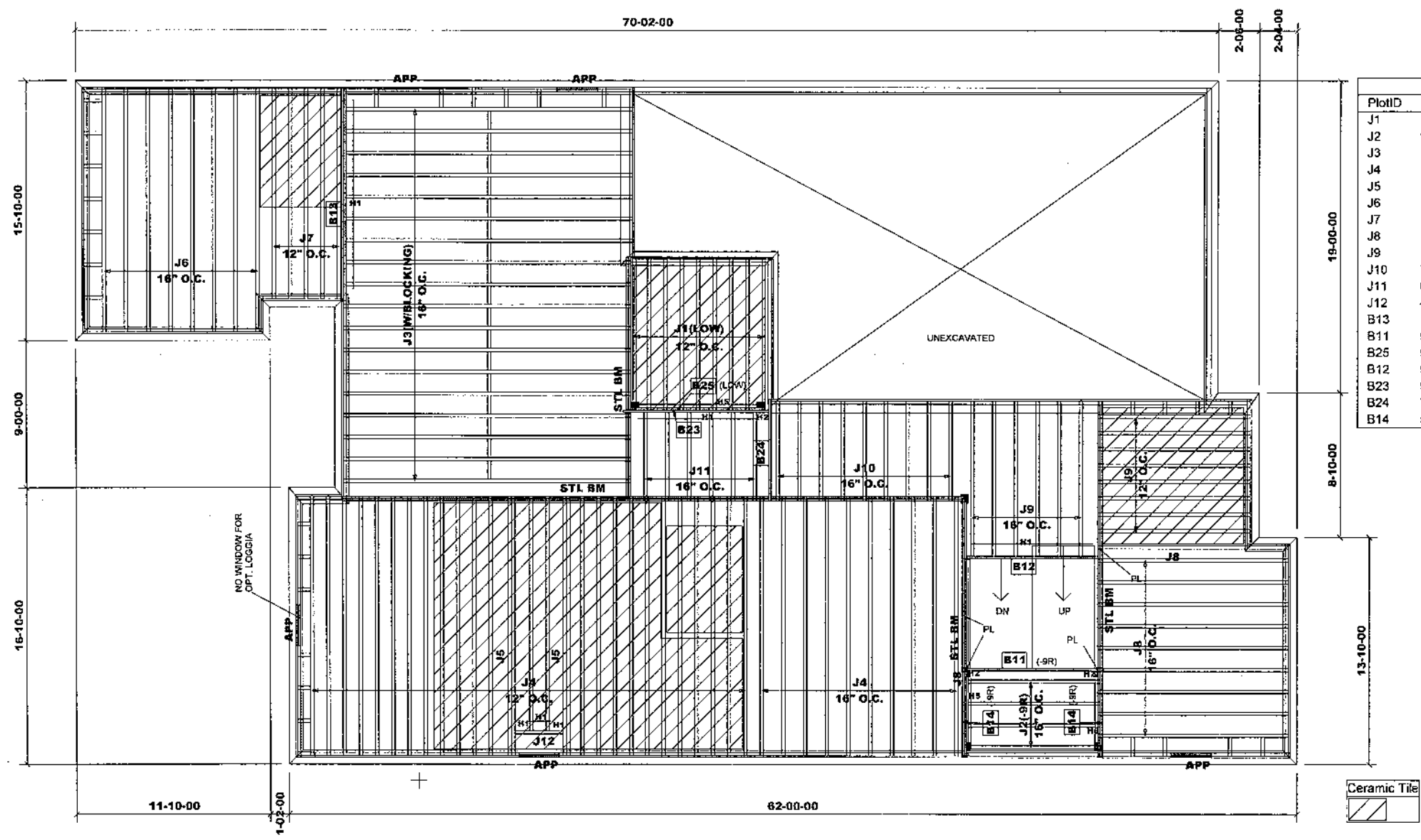


REVISION: March 20, 2020



REVISION: March 20, 2020

Salesperson: Derek
Home Lumber



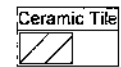
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	10'-00"-00	9 1/2" NI-20	1	9	FF
J2	9'-00"-00	9 1/2" NI-20	1	4	FF
J3	18'-00"-00	11 7/8" NI-20	1	18	FF
J4	16'-00"-00	11 7/8" NI-20	1	35	FF
J5	16'-00"-00	11 7/8" NI-20	2	4	FF
J6	15'-00"-00	11 7/8" NI-20	1	8	FF
J7	13'-00"-00	11 7/8" NI-20	1	5	FF
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
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

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

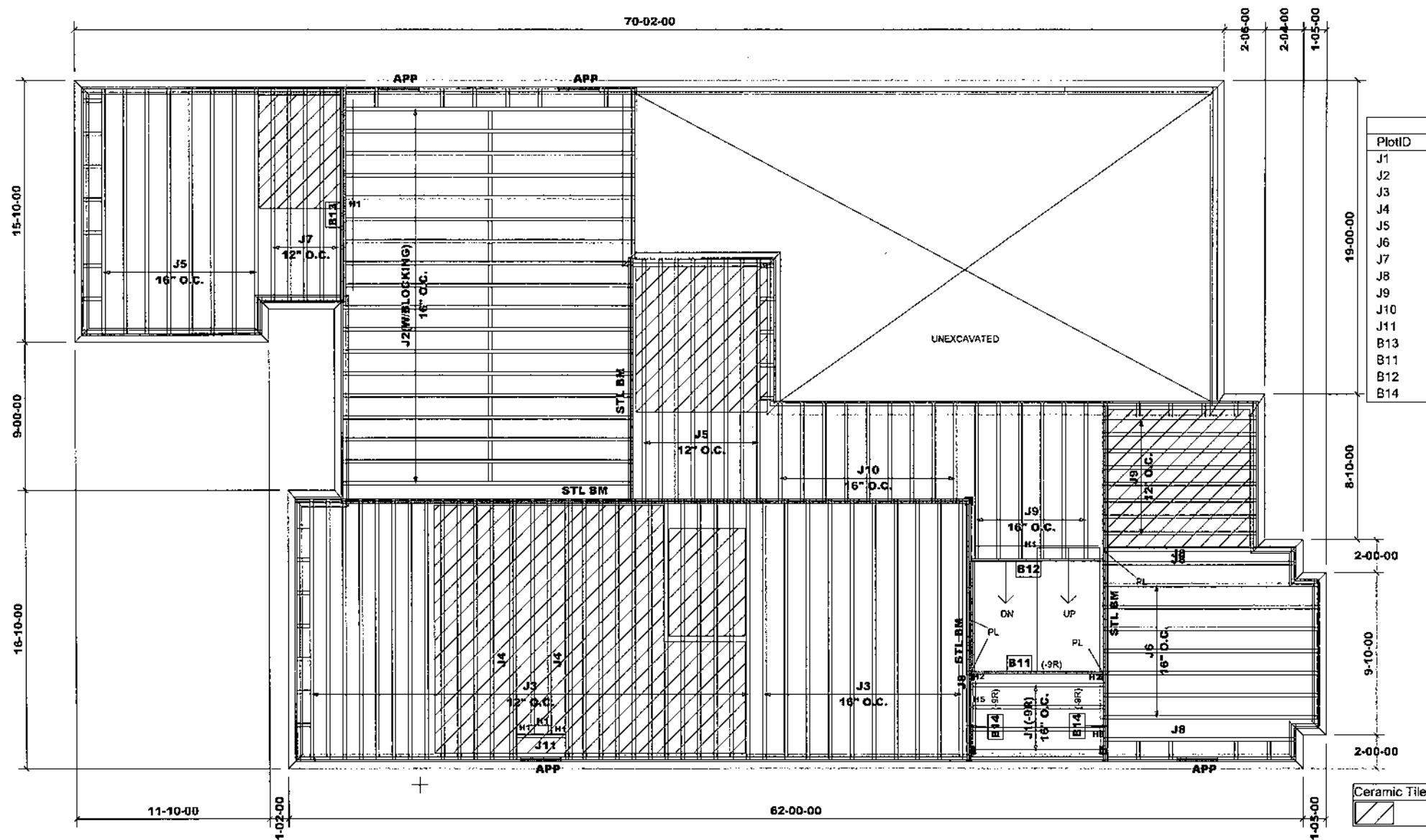


Ceramic tile application as per O.B.C. 9.30.6
 Blocking panels are required over all interior supports
 Squash blocks are required under concentrated loads.

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

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

REVISION: January 22, 2018



Products					
PlotID	Length	Product	Piles	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

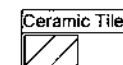
HANGER SCHEDULE	
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H5	LT259(TM)

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



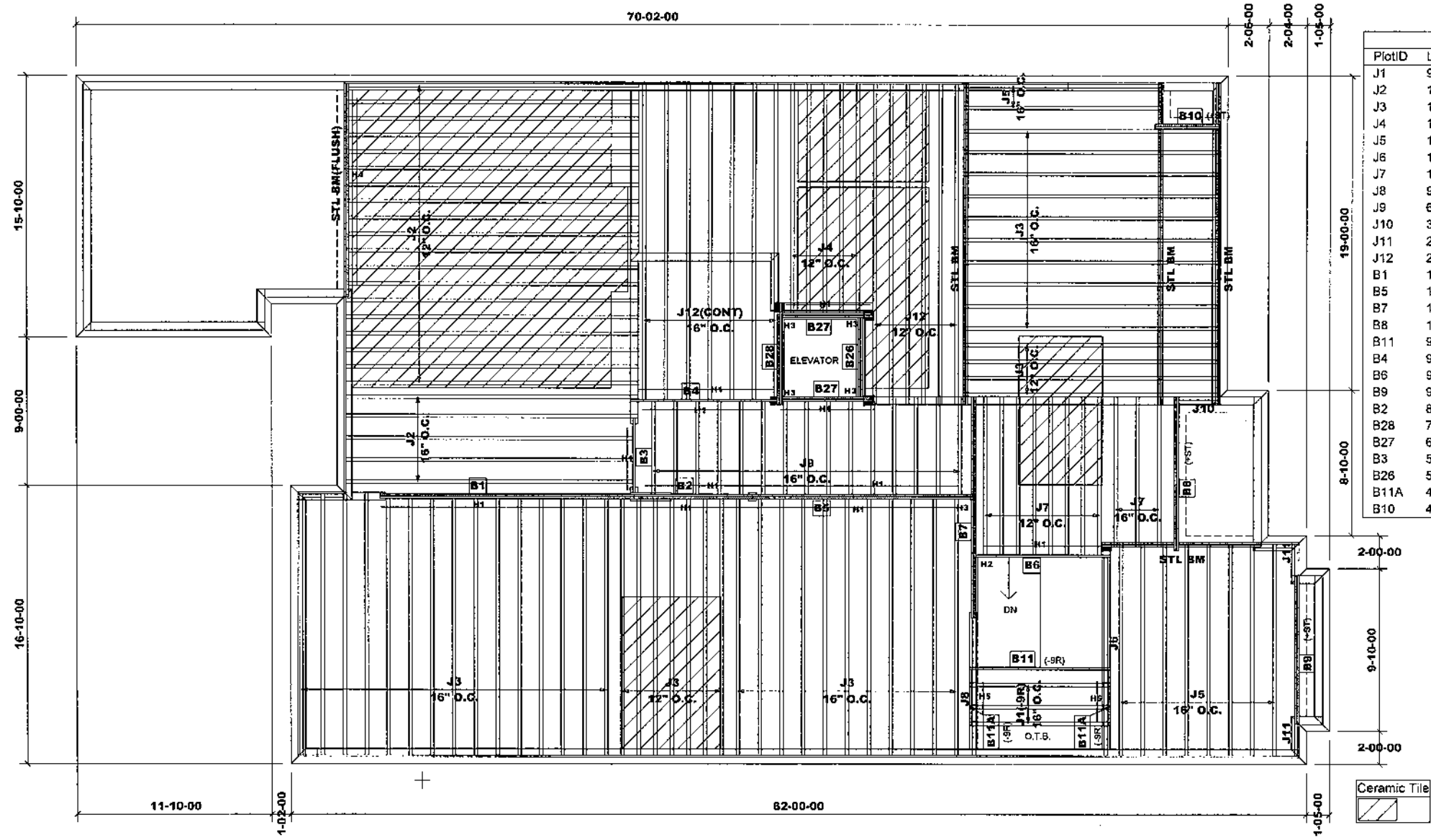
Ceramic tile application as per O.B.C. 9.30.6

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

MODEL: UNIT 5005 - ELA
 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	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	18-00-00	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

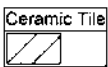
HANGER SCHEDULE

H1	LT251188 (TM)
H2	HUS181/10(FM)
H3	HGUS410(FM)
H4	LF258(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



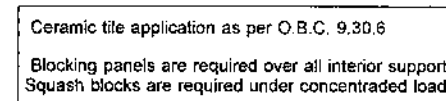
Ceramic tile application as per O.B.C. 9.30.6

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

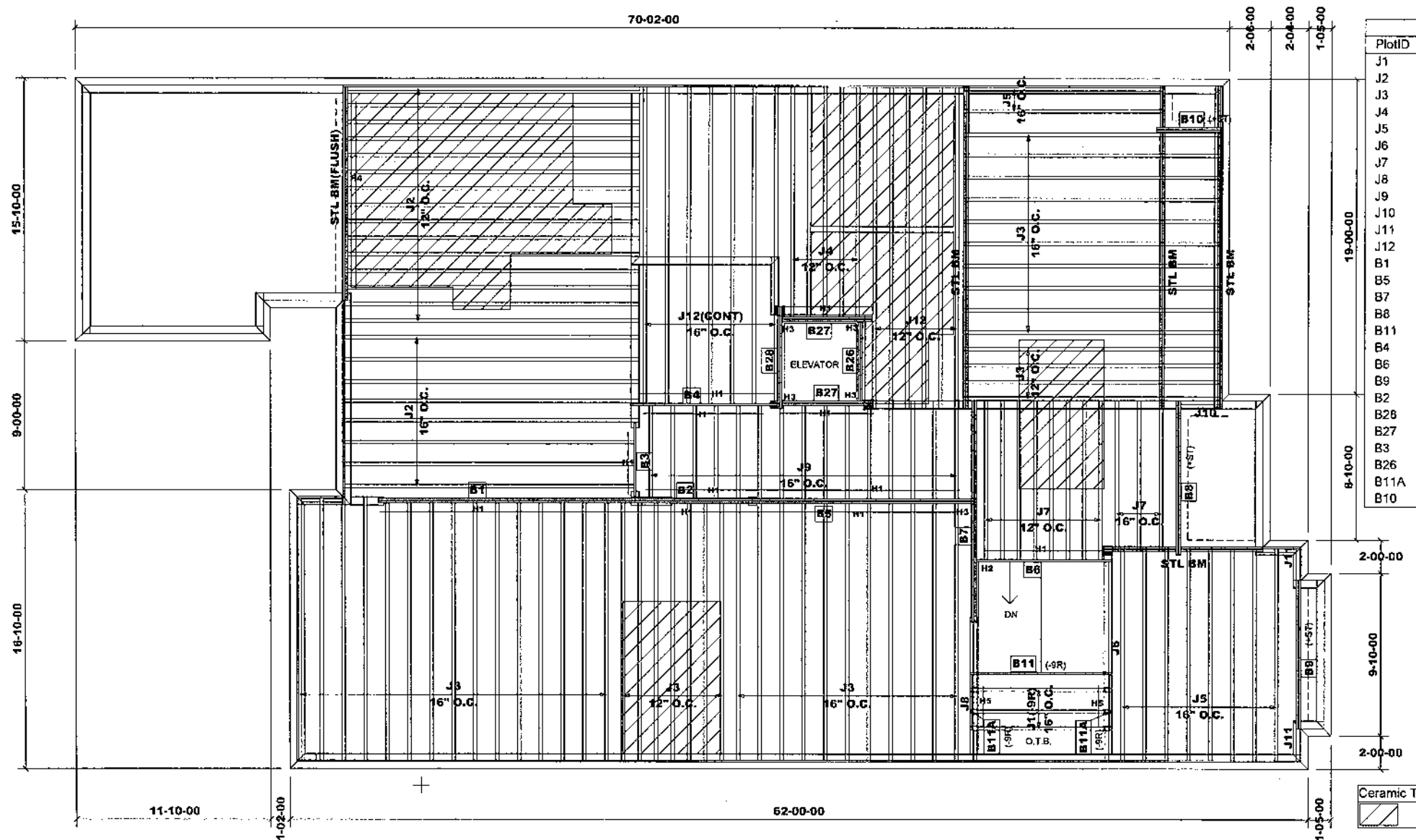
MODEL: UNIT 5005 - EL.A
W/OPT. ELEVATOR
+ OPT. LOGGIA

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

REVISION: March 24, 2020



REVISION: March 24, 2020

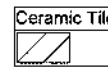


Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	16-00-00	11 7/8" NI-20	1	47	FF
J4	14-00-00	11 7/8" NI-20	1	5	FF
J5	13-00-00	11 7/8" NI-20	1	10	FF
J6	12-00-00	11 7/8" NI-20	1	1	FF
J7	10-00-00	11 7/8" NI-20	1	11	FF
J8	9-00-00	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	LT251168 (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

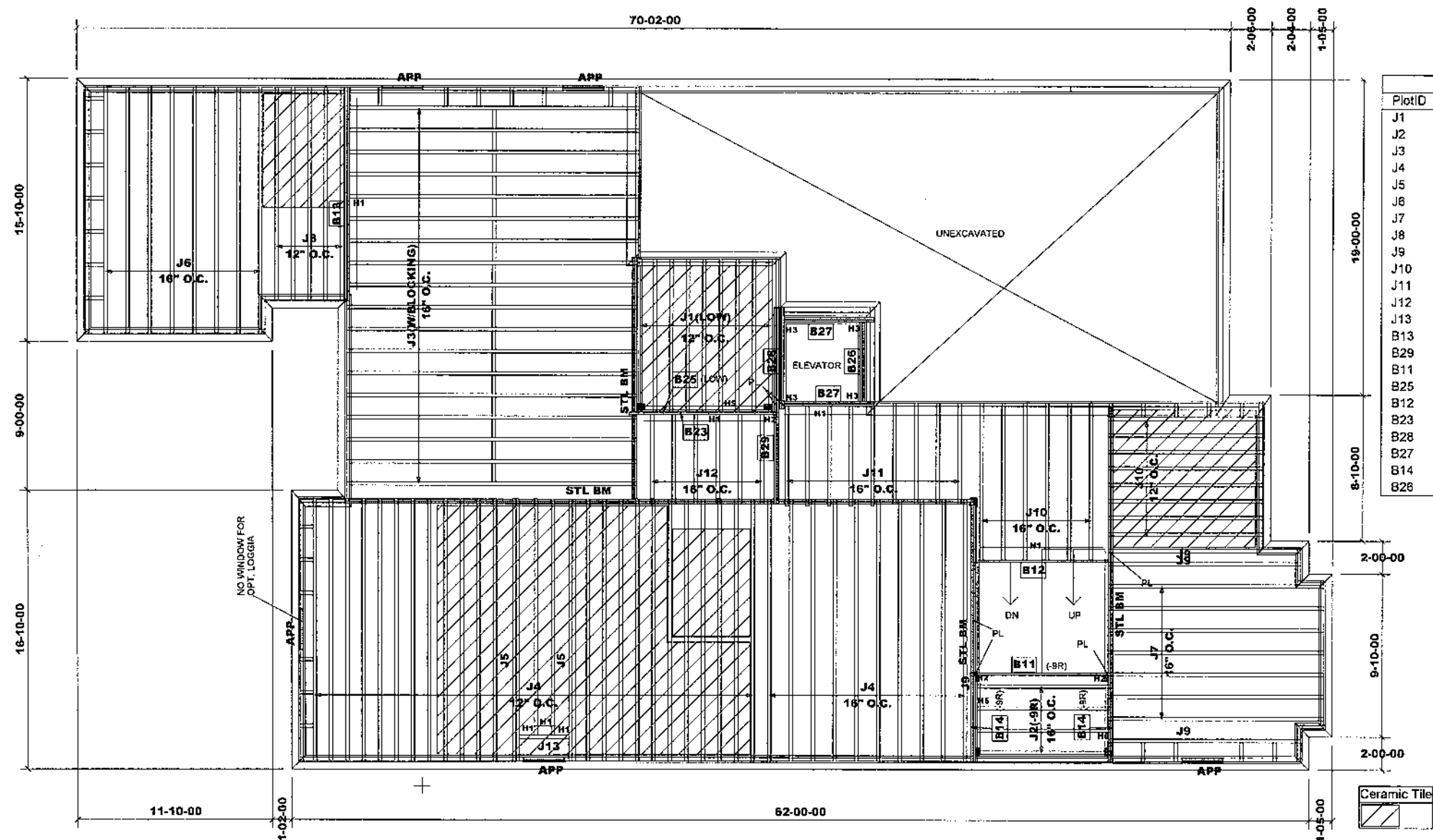


Ceramic tile application as per O.B.C. 9.30.6
 Blocking panels are required over all interior supports
 Squash blocks are required under concentrated loads.

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

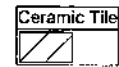
NOTE:
TM -----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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

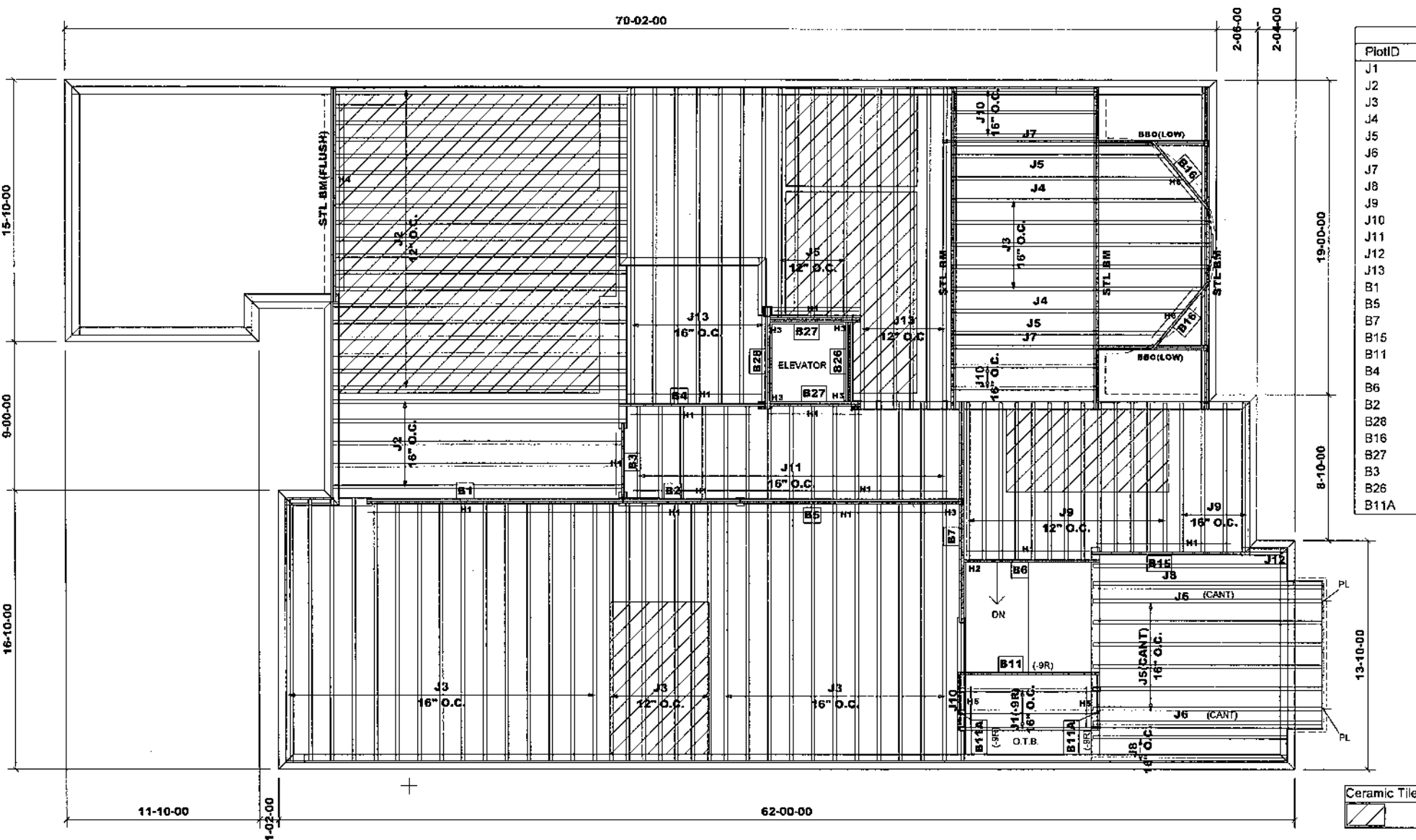
Blocking panels are required over all interior supports
Squash blocks are required under concentrated loads.

**MODEL: UNIT 5005 - ELA
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



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
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

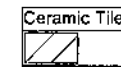
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)

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

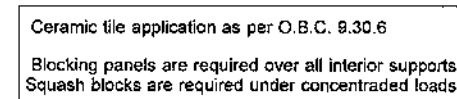
Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends

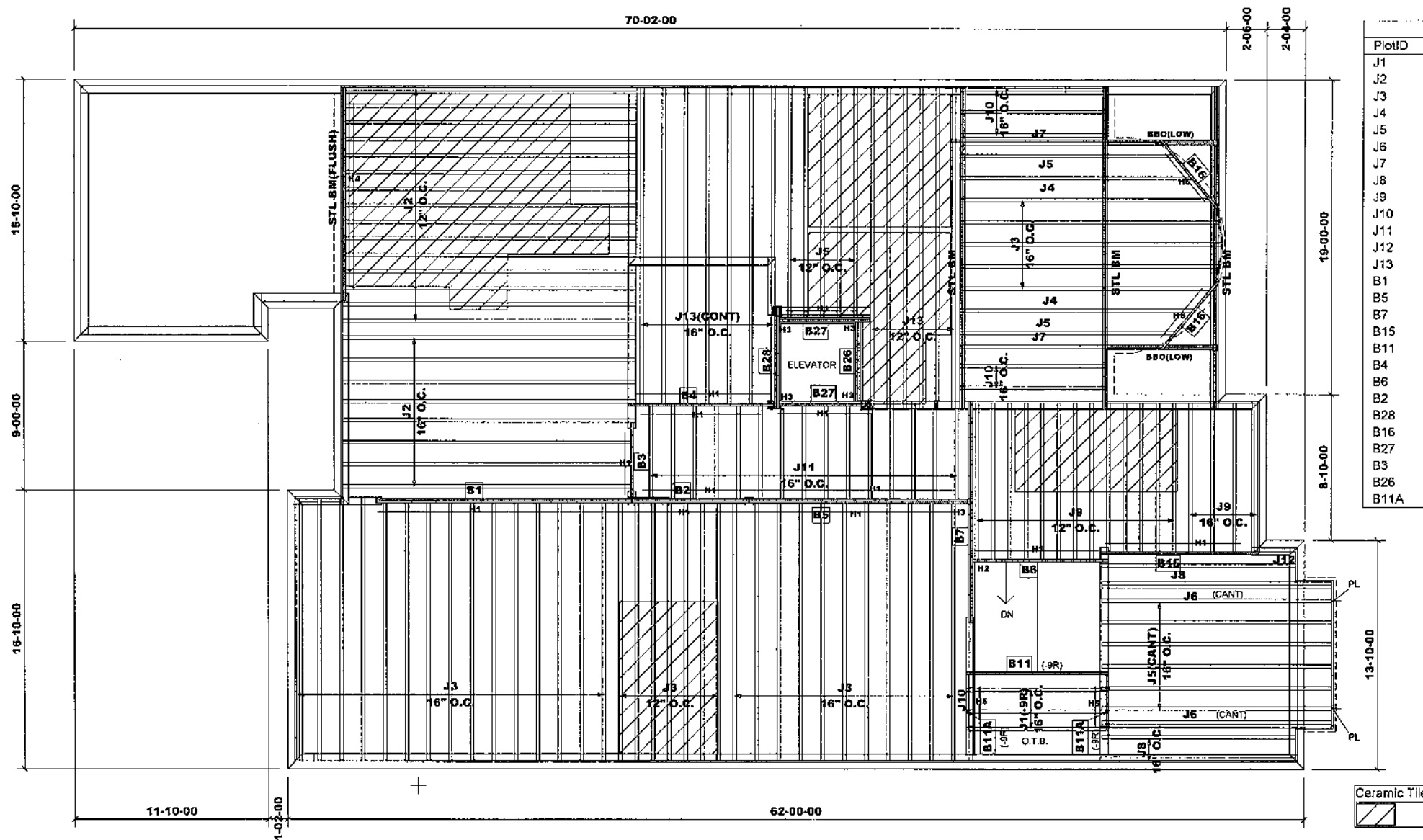
Blocking panels are required over all interior supports
 Squash blocks are required under concentrated loads.

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

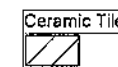




Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	3	FF
J2	18-00-00	11 7/8" NI-20	1	23	FF
J3	18-00-00	11 7/8" NI-20	1	38	FF
J4	15-00-00	11 7/8" NI-20	1	2	FF
J5	14-00-00	11 7/8" NI-20	1	13	FF
J6	14-00-00	11 7/8" NI-20	2	4	FF
J7	13-00-00	11 7/8" NI-20	1	2	FF
J8	12-00-00	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



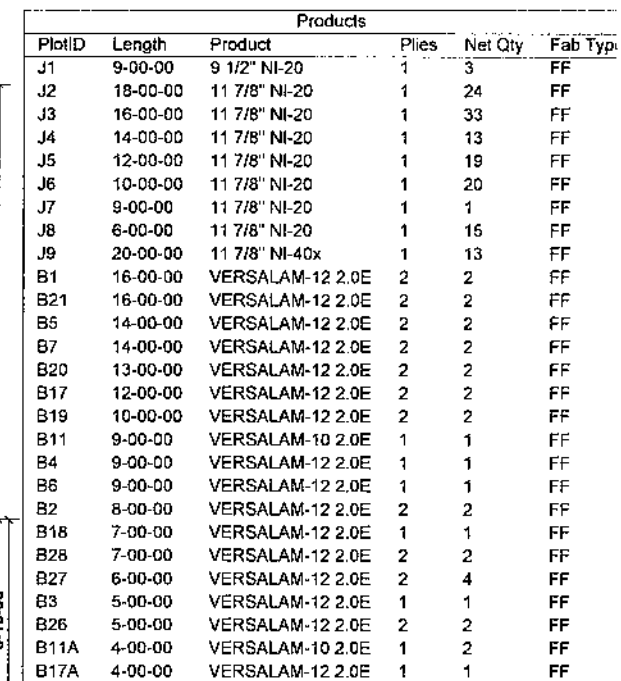
Ceramic tile application as per O.B.C. 9.30.6
 Provide I-Joist Blocking between cantilevered joists (along bearing) and rimboard closure at ends.
 Blocking panels are required over all interior supports
 Squash blocks are required under concentrated loads.

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

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

REVISION: March 24, 2020



HANGER SCHEDULE

H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	L259(FM)
H5	LT259(TM)
H6	HUC410(FM)

NOTE:

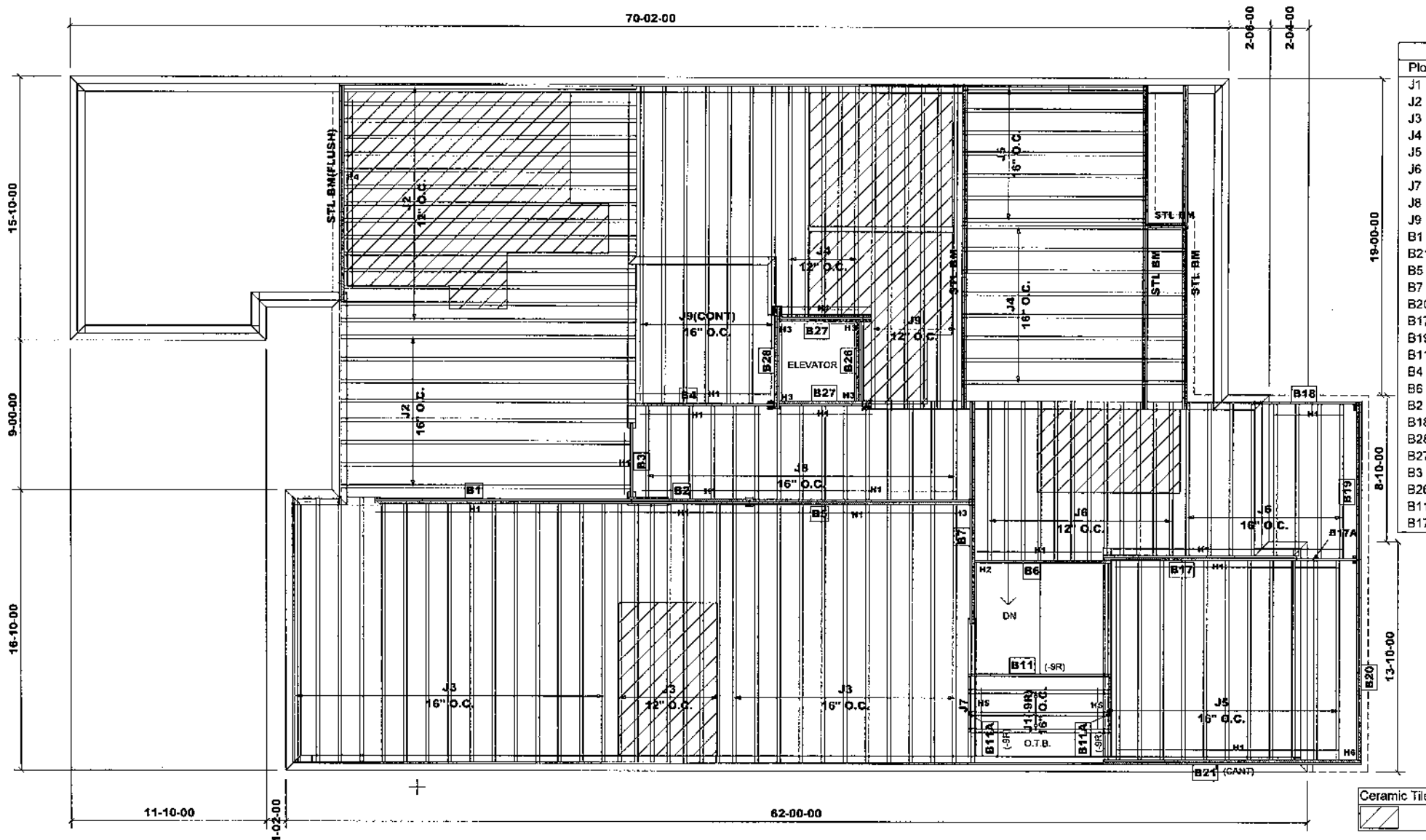
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

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 Q.B.C. 9.30.6

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

REVISION: March 24, 2020



Products					
Plot/D	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	



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. 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
LI: 318279(290684)

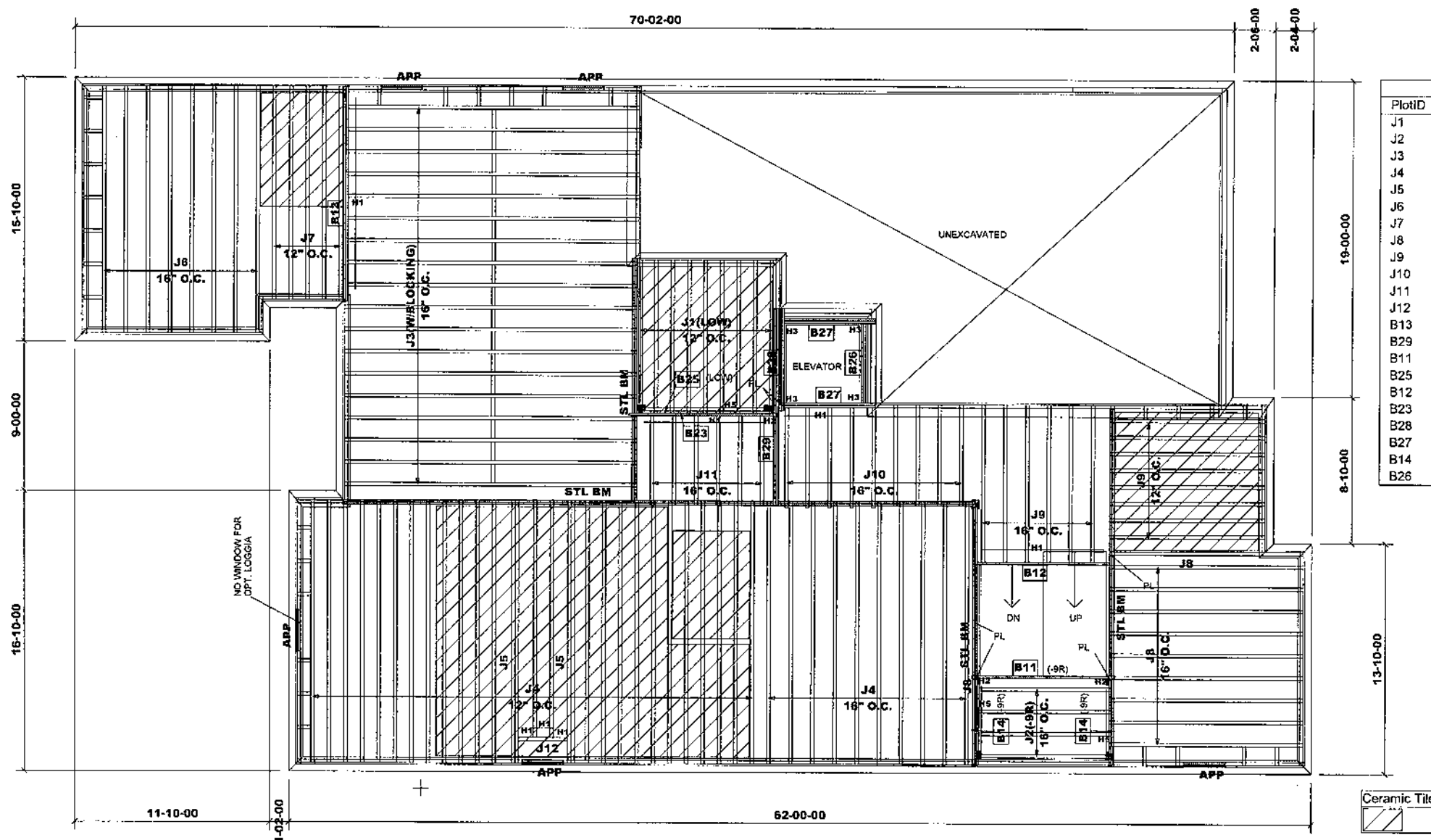
Builder: Gold Park
Project: Pine Valley

Location: Vaughan
Date: November 29, 2017

Designer: NL
Sheet: 20 of 42

Alpa Roof Trusses Inc.
Maple, Ontario

Salesperson: Derek
Home Lumber



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

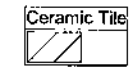
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H5	LT259(TM)

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



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

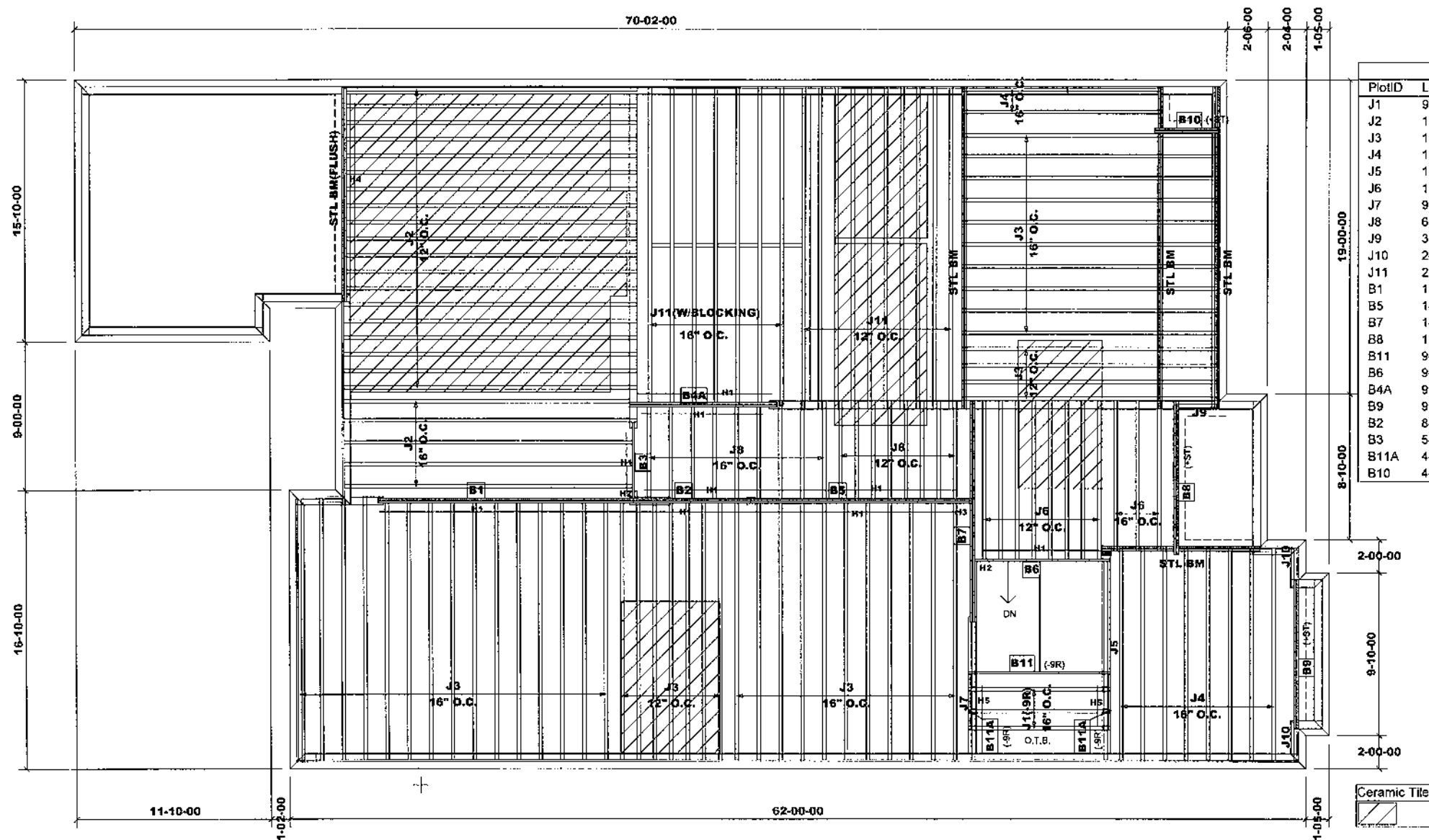
Blocking panels are required over all interior supports
 Squash blocks are required under concentrated loads.

MODEL: UNIT 5005 - EL.B+C
W/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



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	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:

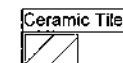
TM-----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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.

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

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

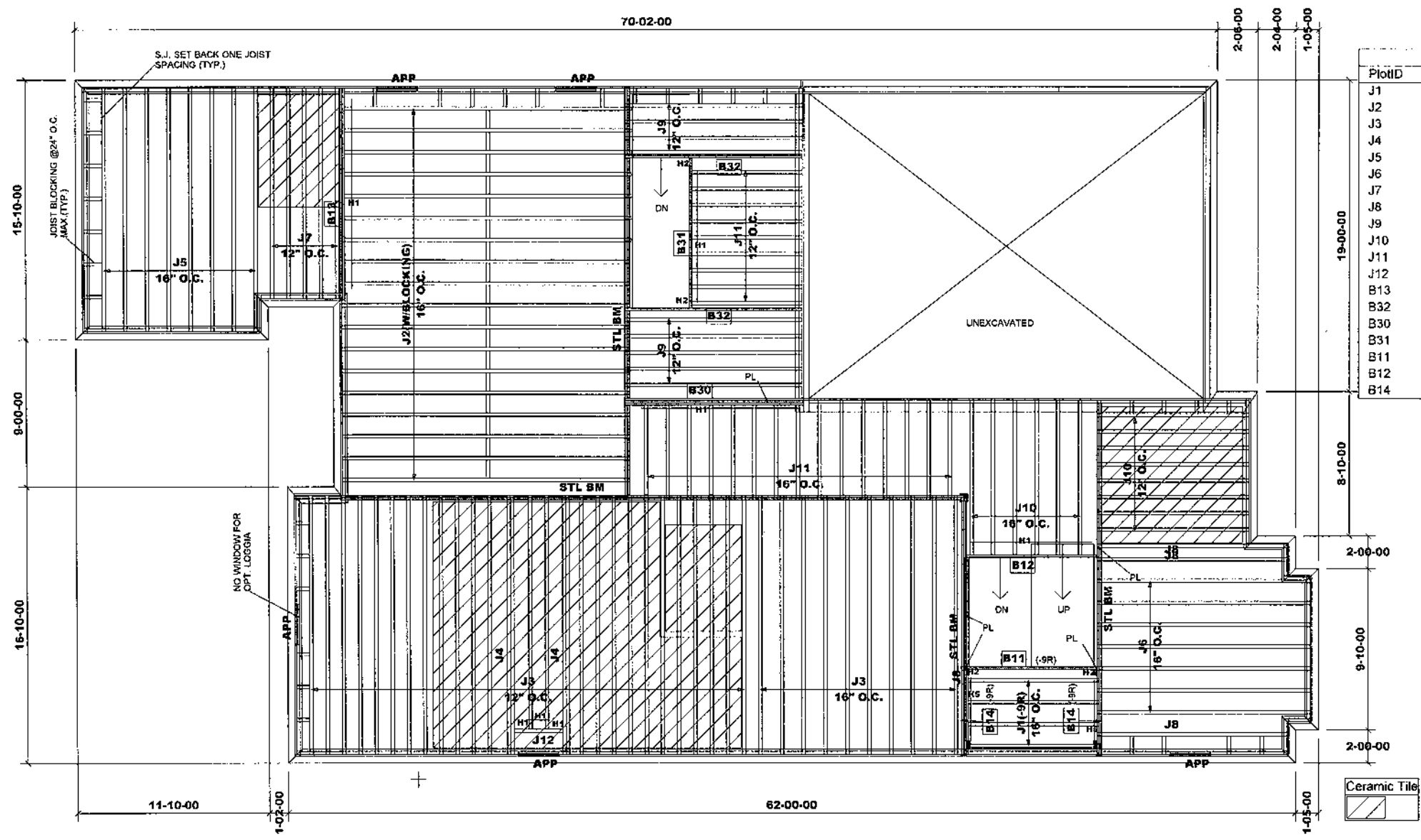
Project: Pine Valley

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

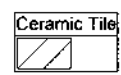
H1 ———— LT251188 (TM)
H2 ———— HUS1.81/10(FM)
H5 ———— LT258(TM)

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



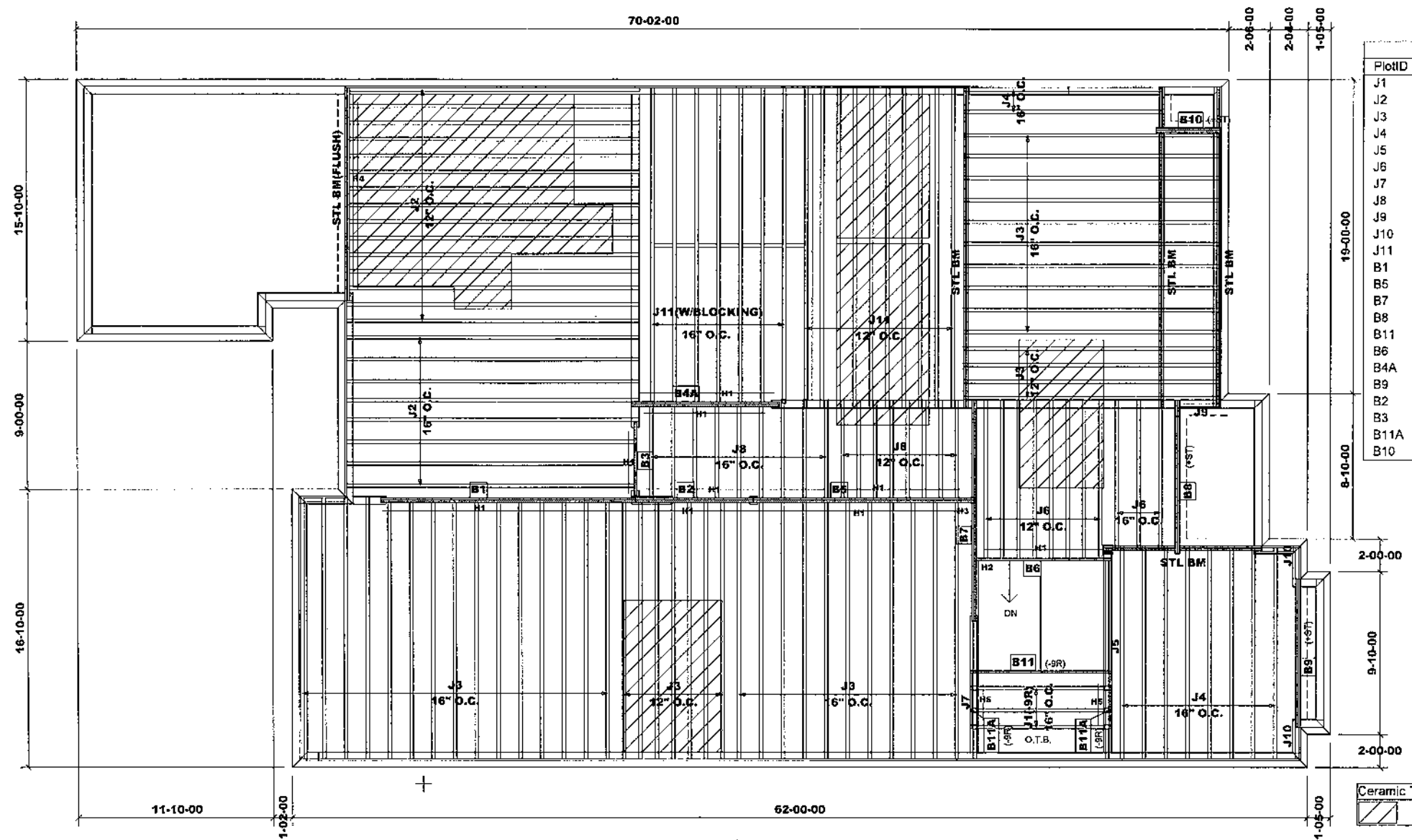
Ceramic tile application as per O.B.C. 9.30.6

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	Pieces	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)

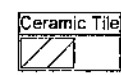
NOTE:
TM-----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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
BB0 - BEAM BY OTHERS



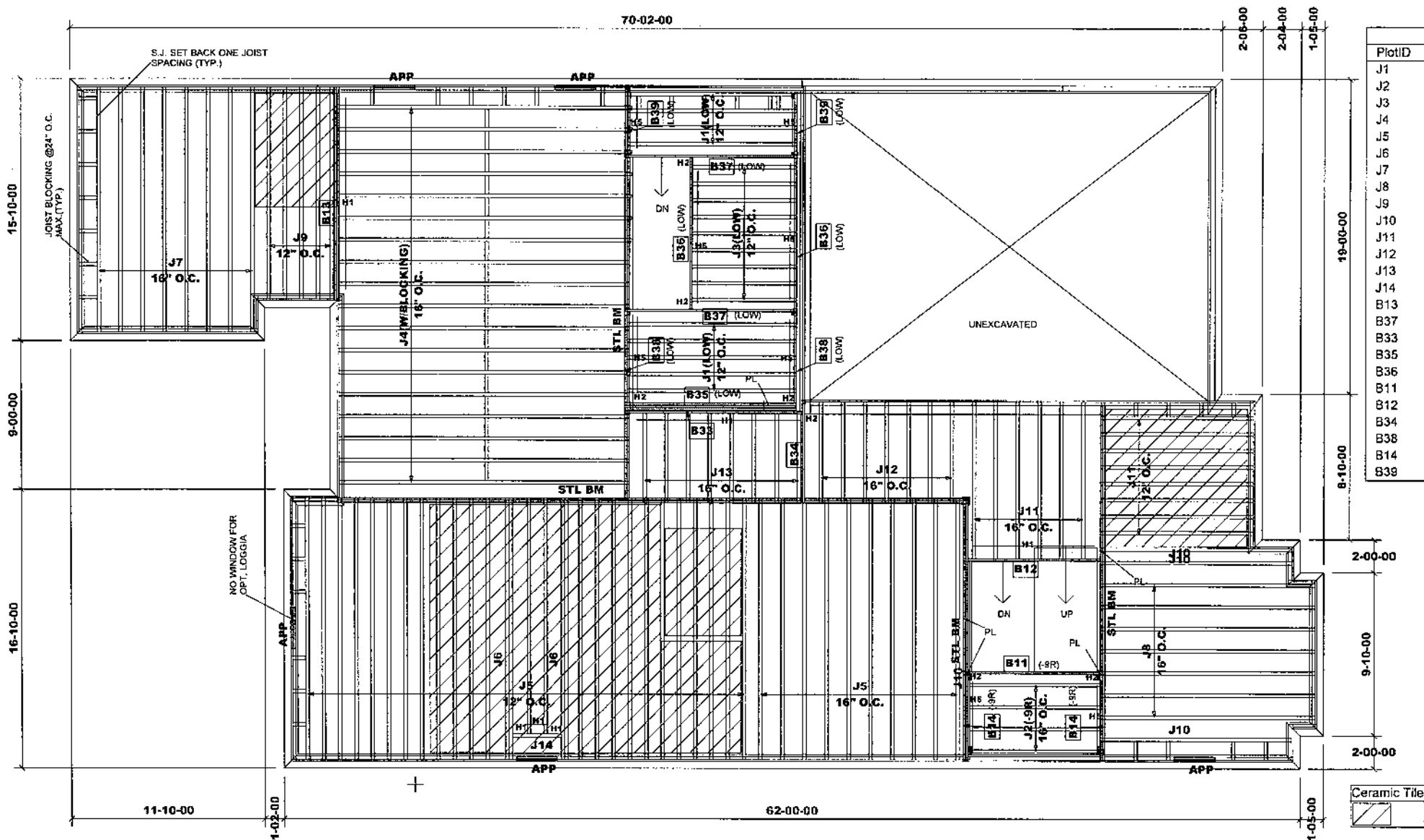
Ceramic tile application as per O.B.C. 9.30.6

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

MODEL: UNIT 5005 - EL.A
W/SERVICE STAIR(OPT. 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	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

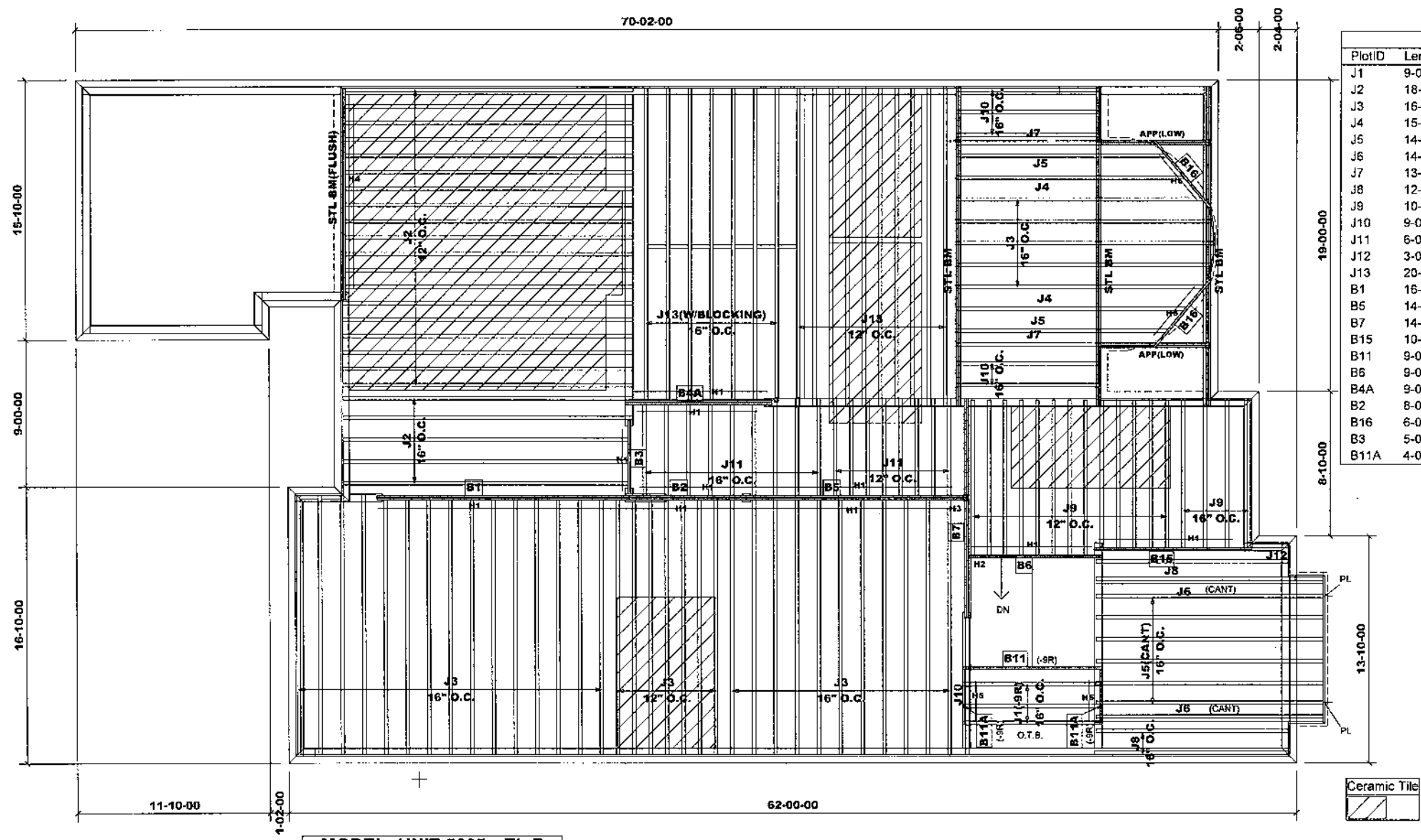
Ceramic tile application as per O.B.C. 9.30.6

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



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

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	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

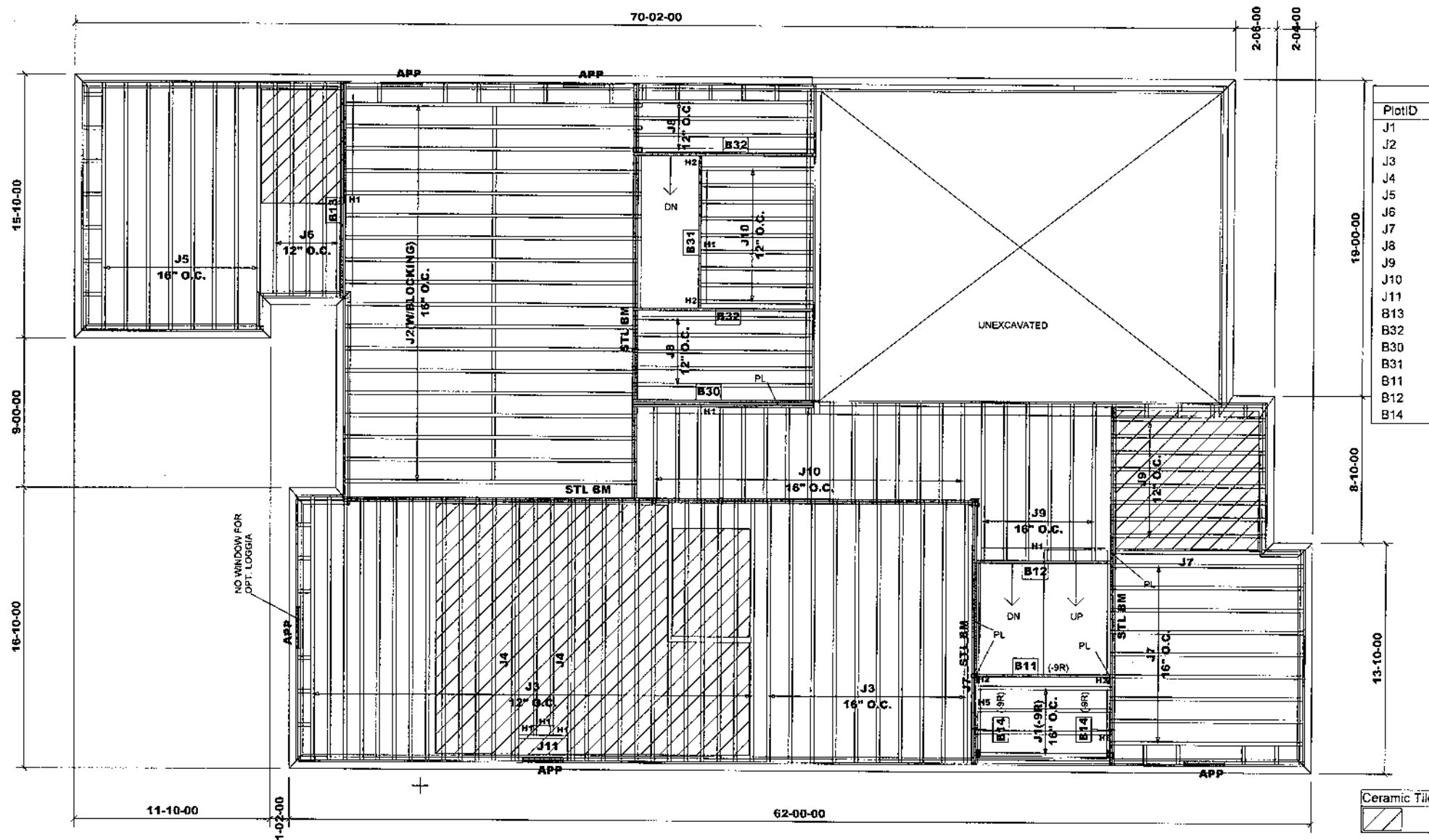
HANGER SCHEDULE

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.



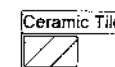
Products					
PlotID	Length	Product	Plies	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	4	FF
J2	18'-00"-00	11 7/8" NI-20	1	18	FF
J3	16'-00"-00	11 7/8" NI-20	1	35	FF
J4	16'-00"-00	11 7/8" NI-20	2	4	FF
J5	15'-00"-00	11 7/8" NI-20	1	8	FF
J6	13'-00"-00	11 7/8" NI-20	1	5	FF
J7	12'-00"-00	11 7/8" NI-20	1	11	FF
J8	11'-00"-00	11 7/8" NI-20	1	9	MFD
J9	10'-00"-00	11 7/8" NI-20	1	14	FF
J10	7'-00"-00	11 7/8" NI-20	1	24	MFD
J11	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	1-1/8" X 9 1/2" O.S.B.
1	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
 + OPT. LOGGIA & W.O.D.

First Floor Framing

Do not scale - refer to architectural plans for dimensions

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

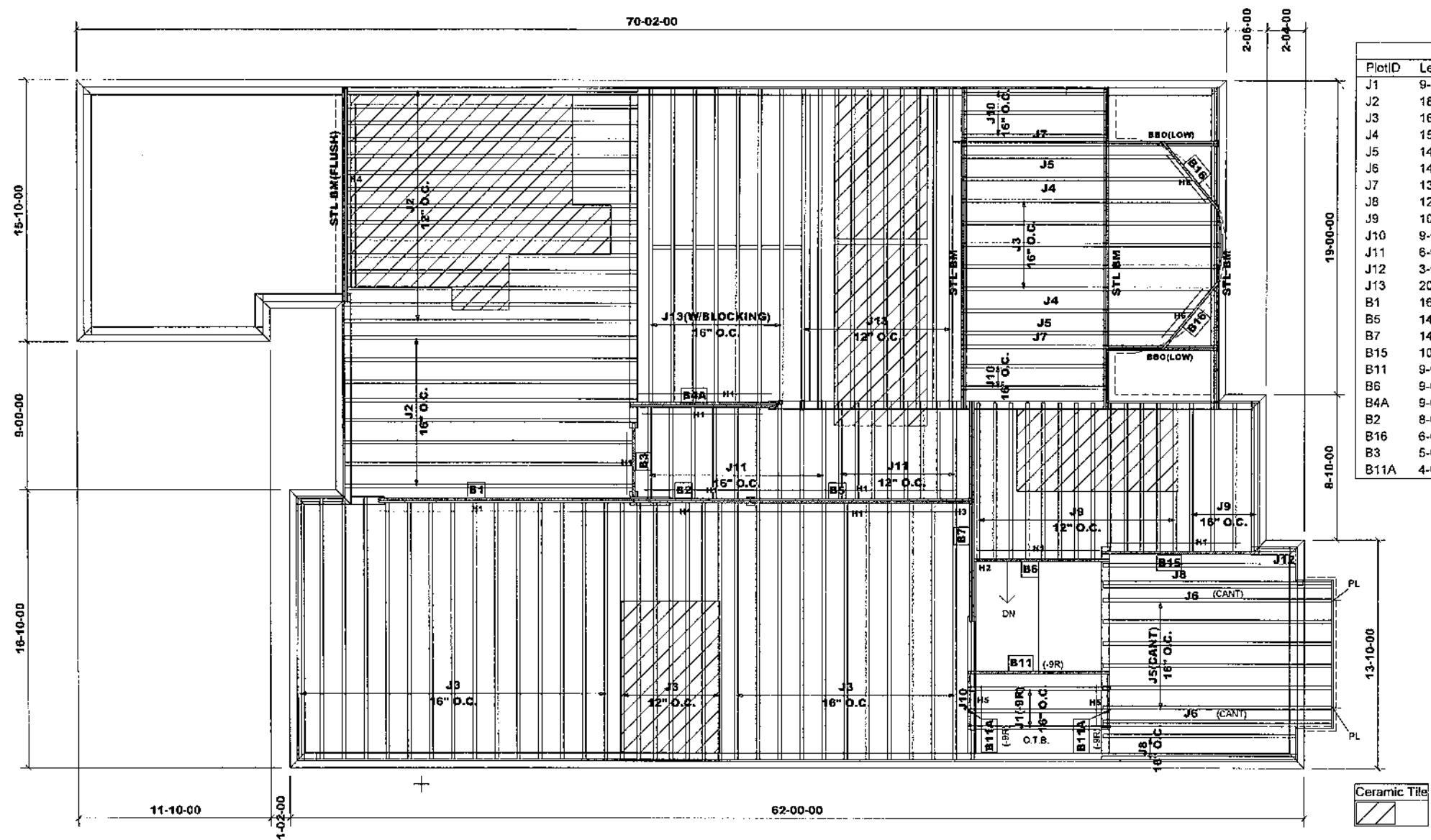
Builder: Gold Park
 Project: Pine Valley

Location: Vaughan
 Date: March 25, 2020

Designer: NL
 Sheet: 27 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	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-----HQUS410(FM)
- H4-----LF259(FM)
- H5-----LT259(TM)
- H6-----LSSUH310(FM)

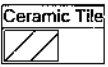
NOTE:
 TM-----TOP MOUNT HANGERS
 FM-----FACE MOUNT HANGERS

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. 2ND FL.)
+ OPT. LOGGIA

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

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

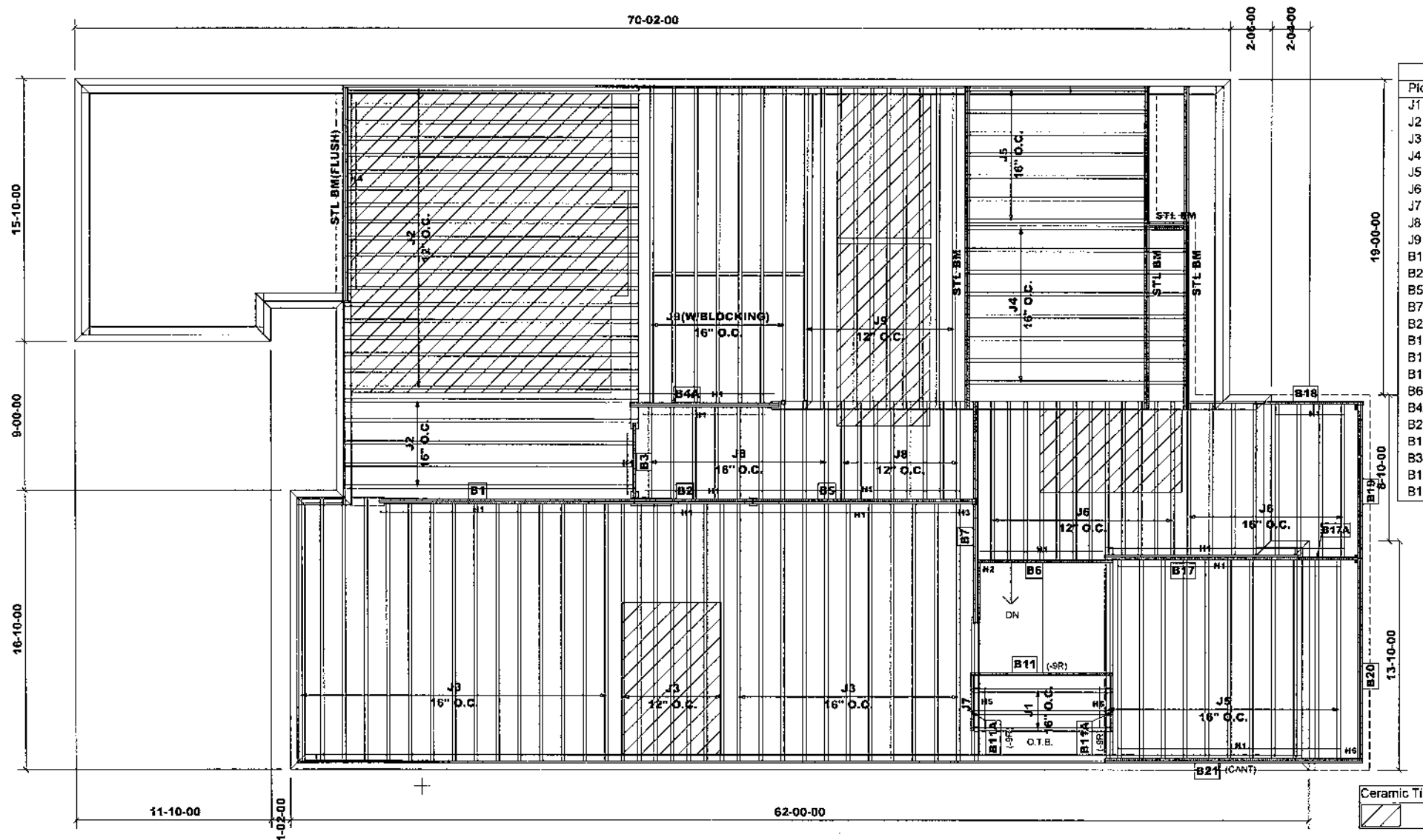
Builder: Gold Park
 Project: Pine Valley

Location: Vaughan
 Date: March 25, 2020

Designer: NL
 Sheet: 28 of 42

Alpa Roof Trusses Inc.
 Maple, Ontario

Salesperson: Derek
 Home Lumber



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	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 - E.L.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)

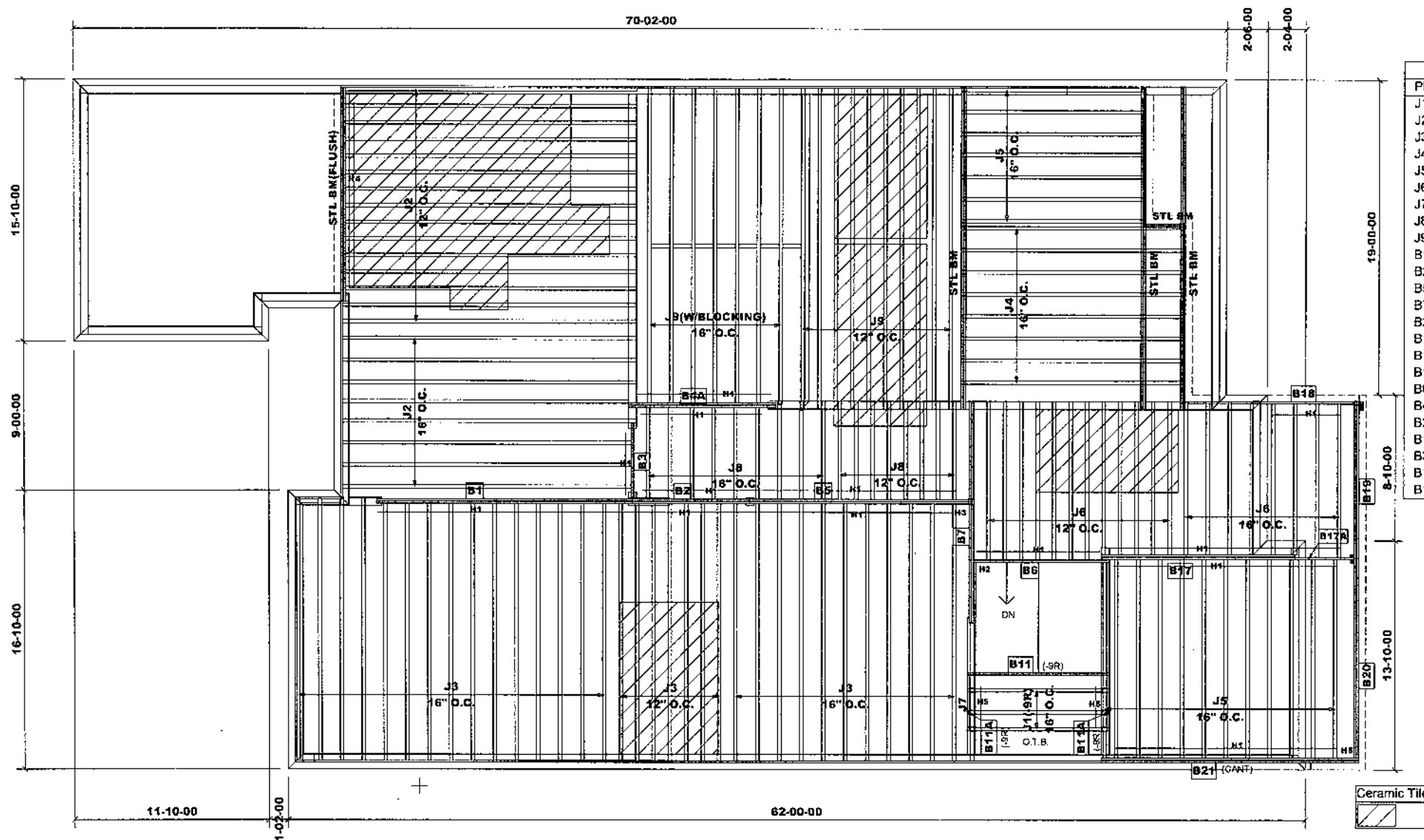
Builder: Gold Park
Project: Pine Valley

Location: Vaughan
Date: March 25, 2020

Designer: NL
Sheet: 29 of 42

Alpa Roof Trusses Inc.
Maple, Ontario

Salesperson: Derek
Home Lumber



MODEL: UNIT 5005 - E.L.C
W/SERVICE STAIR(OPT. 2ND FL.)
+ 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	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	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-----HUS410(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

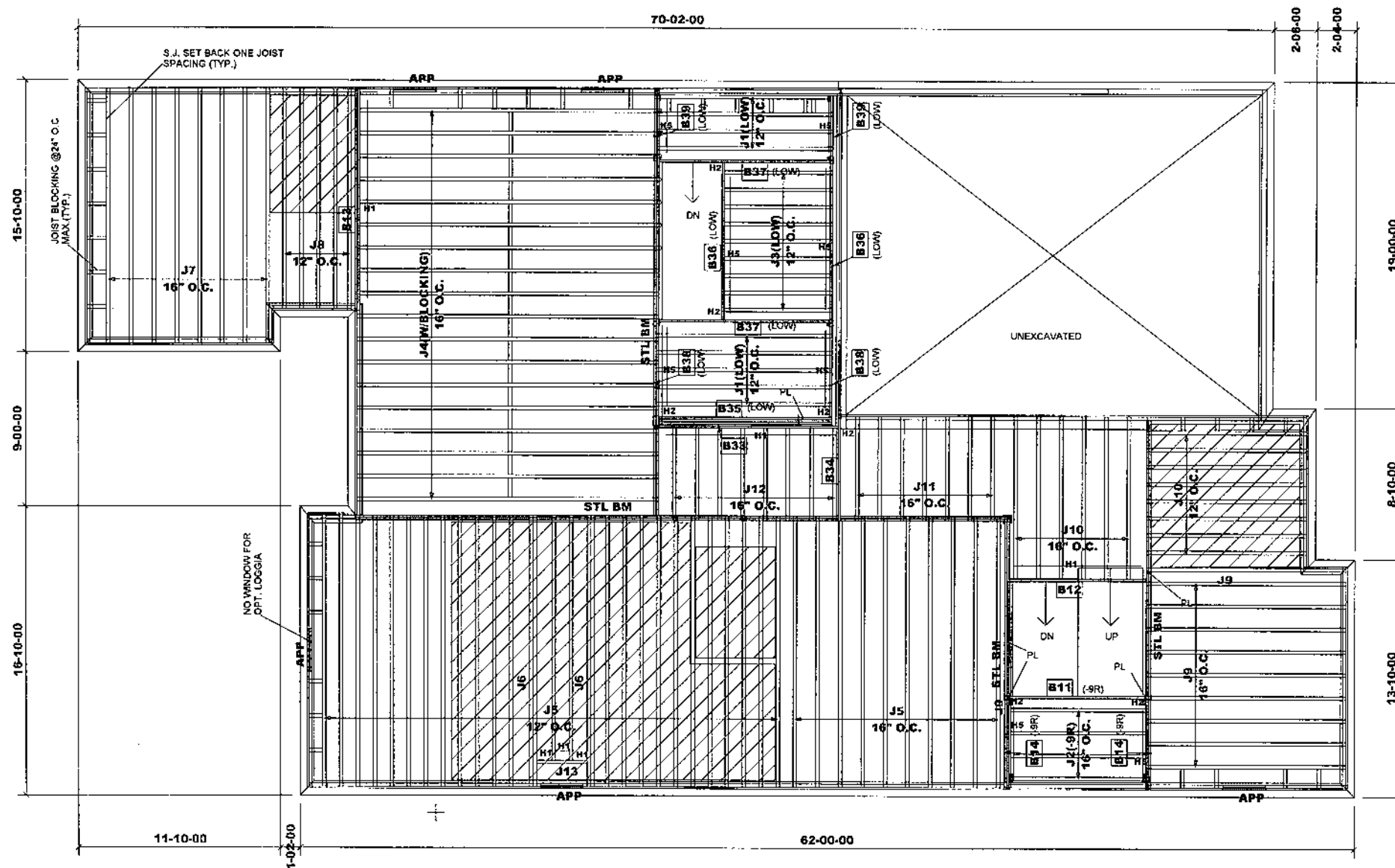
Sheet: 30 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

Home Lumber



Products					
PlotID	Length	Product	Piles	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

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

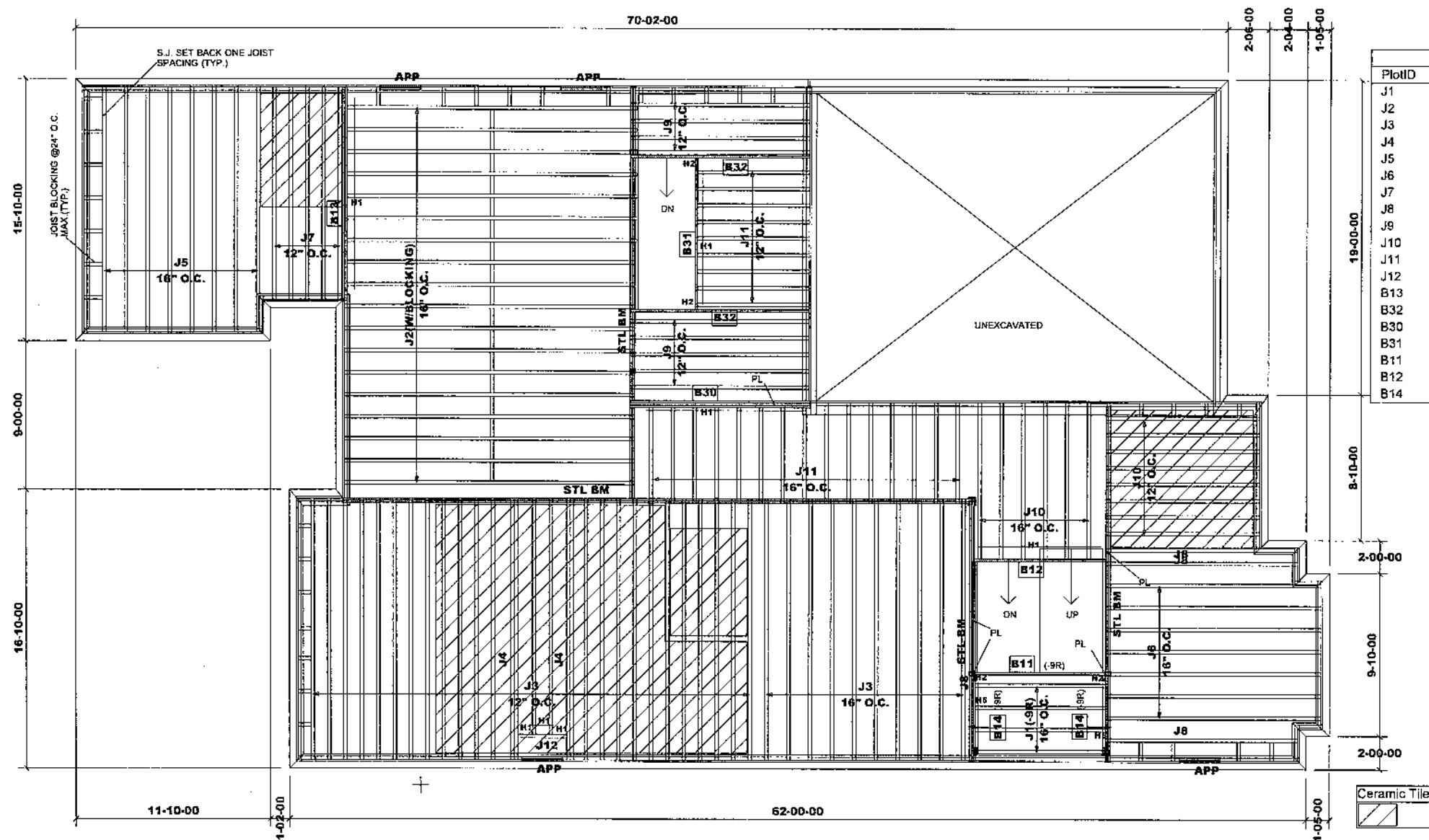
Project: Pine Valley

Date: March 25, 2020

Sheet: 31 of 42

Maple, Ontario

Home Lumber



Products					
PlotID	Length	Product	Piles	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:

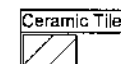
TM-----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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 - ELA
W/SERVICE STAIR
W/L.O.D. & W.O.B. CONDITION

First Floor Framing

Do not scale - refer to architectural plans for dimensions

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

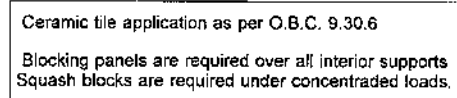
Project: Pine Valley

Date: March 25, 2020

Sheet: 32 of 42

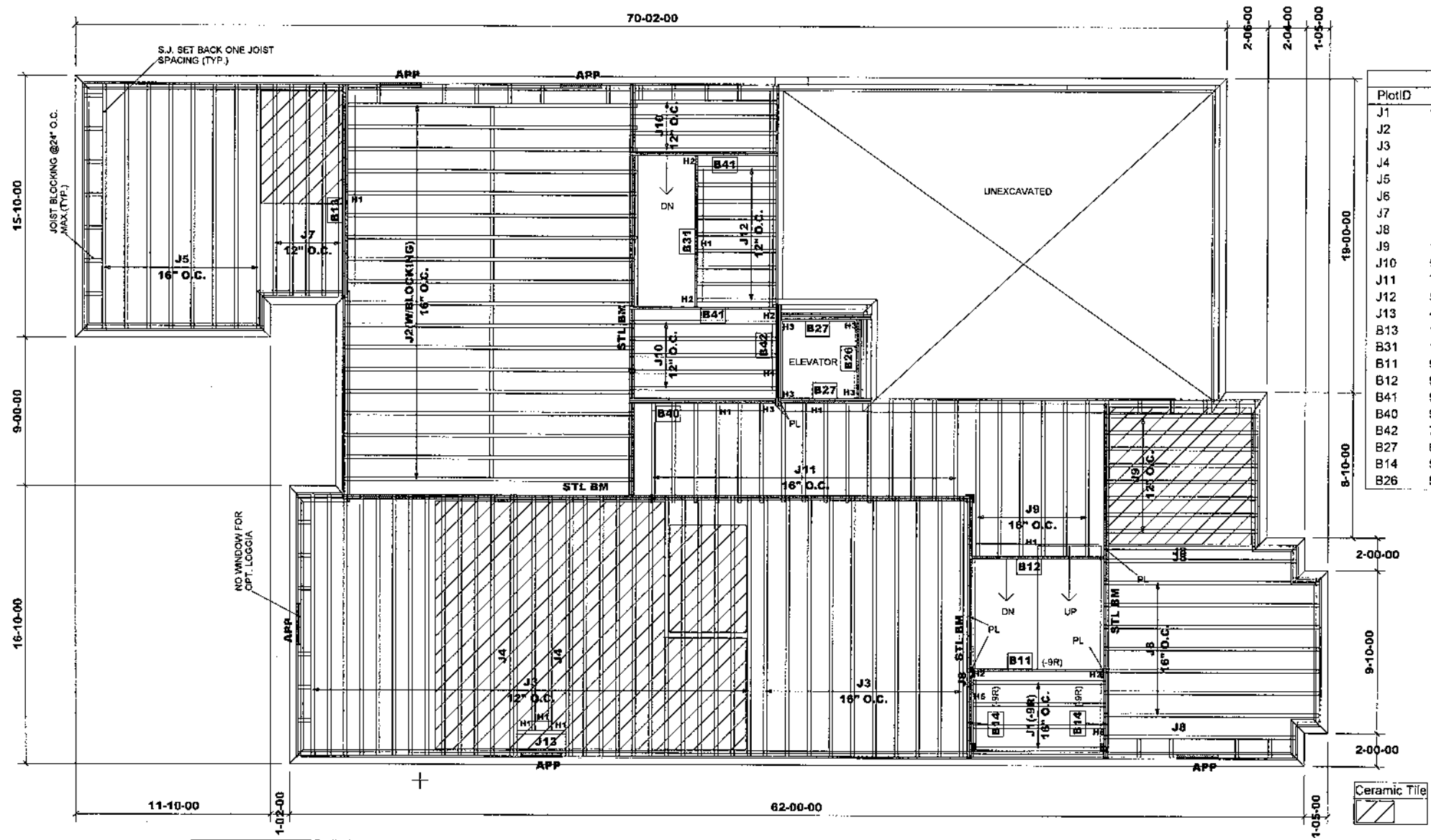
Maple, Ontario

Home Lumber



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	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	16-00-00	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)

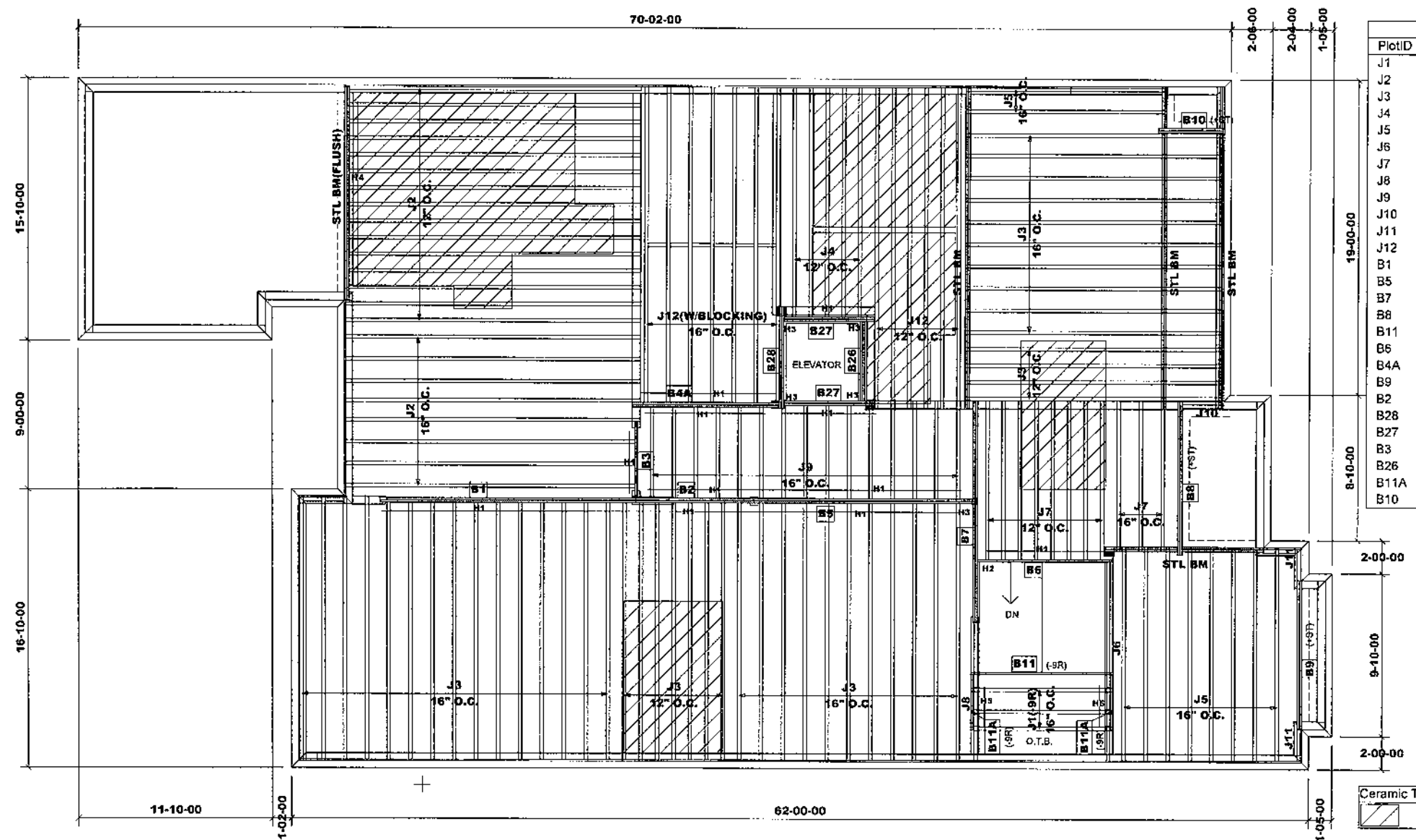
NOTE:
 TM — TOP MOUNT HANGERS
 FM — FACE MOUNT HANGERS

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 - ELA
 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 - ELA
W/SERVICE STAIR(W/ ELEVATOR)
W/OPT. 2ND FLOOR
+ OPT. LOGGIA

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

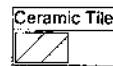
Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	23	FF
J3	16'-00"-00	11 7/8" NI-20	1	47	FF
J4	14'-00"-00	11 7/8" NI-20	1	5	FF
J5	13'-00"-00	11 7/8" NI-20	1	10	FF
J6	12'-00"-00	11 7/8" NI-20	1	1	FF
J7	10'-00"-00	11 7/8" NI-20	1	11	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.

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

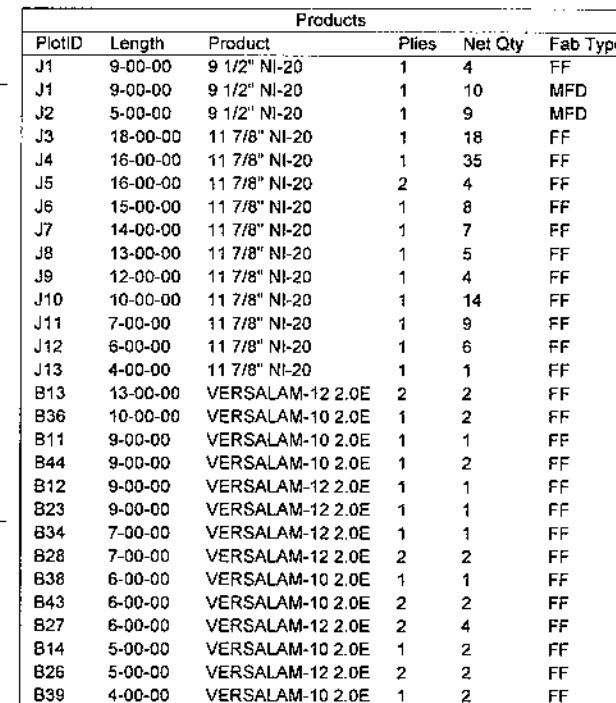
Builder: Gold Park
Project: Pine Valley

Location: Vaughan
Date: March 25, 2020

Designer: NL
Sheet: 35 of 42

Alpa Roof Trusses Inc.
Maple, Ontario

Salesperson: Derek
Home Lumber



HANGER SCHEDULE

H1-----	LT251188 (TM)
H2-----	HUS4.81/10(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
BBG - BEAM BY OTHERS

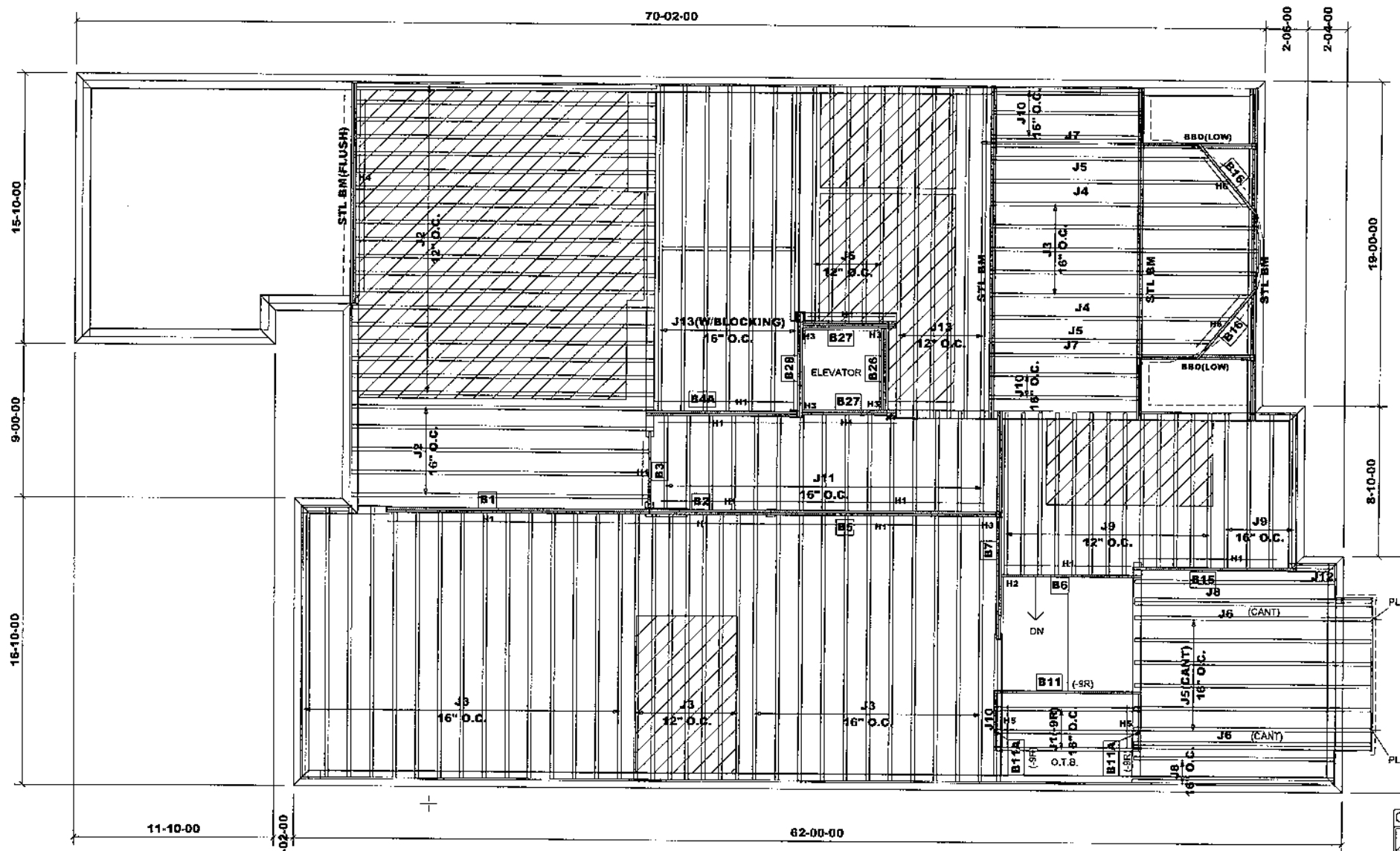
Ceramic tile application as per O.B.C. 9.30.6

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

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

First Floor Framing

Do not scale - refer to architectural plans for dimensions



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

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

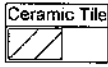
Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	9'-00"-00	9 1/2" NI-20	1	3	FF
J2	18'-00"-00	11 7/8" NI-20	1	24	FF
J3	18'-00"-00	11 7/8" NI-20	1	38	FF
J4	15'-00"-00	11 7/8" NI-20	1	2	FF
J5	14'-00"-00	11 7/8" NI-20	1	13	FF
J6	14'-00"-00	11 7/8" NI-20	2	4	FF
J7	13'-00"-00	11 7/8" NI-20	1	2	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

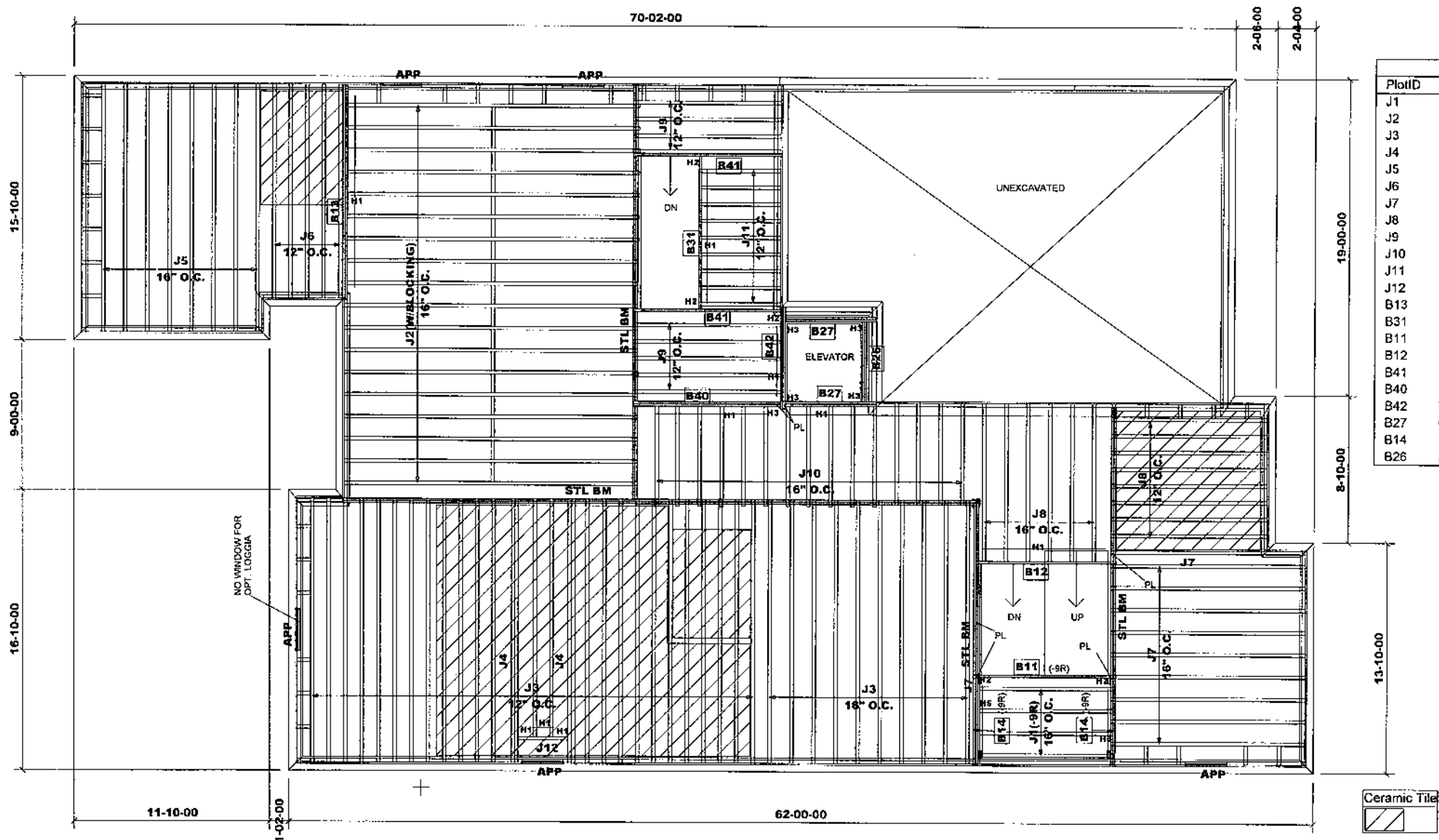
H1	LT251188 (TM)
H2	HUS1.81/10(FM)
H3	HGUS410(FM)
H4	LF259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)

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 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	4	FF
J2	18'-00"-00	11 7/8" NI-20	1	18	FF
J3	16'-00"-00	11 7/8" NI-20	1	36	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	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	9'-00"-00	11 7/8" NI-20	1	9	MFD
J10	7'-00"-00	11 7/8" NI-20	1	15	FF
J11	5'-00"-00	11 7/8" NI-20	1	9	MFD
J12	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:

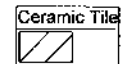
TM-----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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.B+C
W/SERVICE STAIR(W/ELEVATOR)
+ OPT. LOGGIA
+ W.O.D. CONDITION**

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

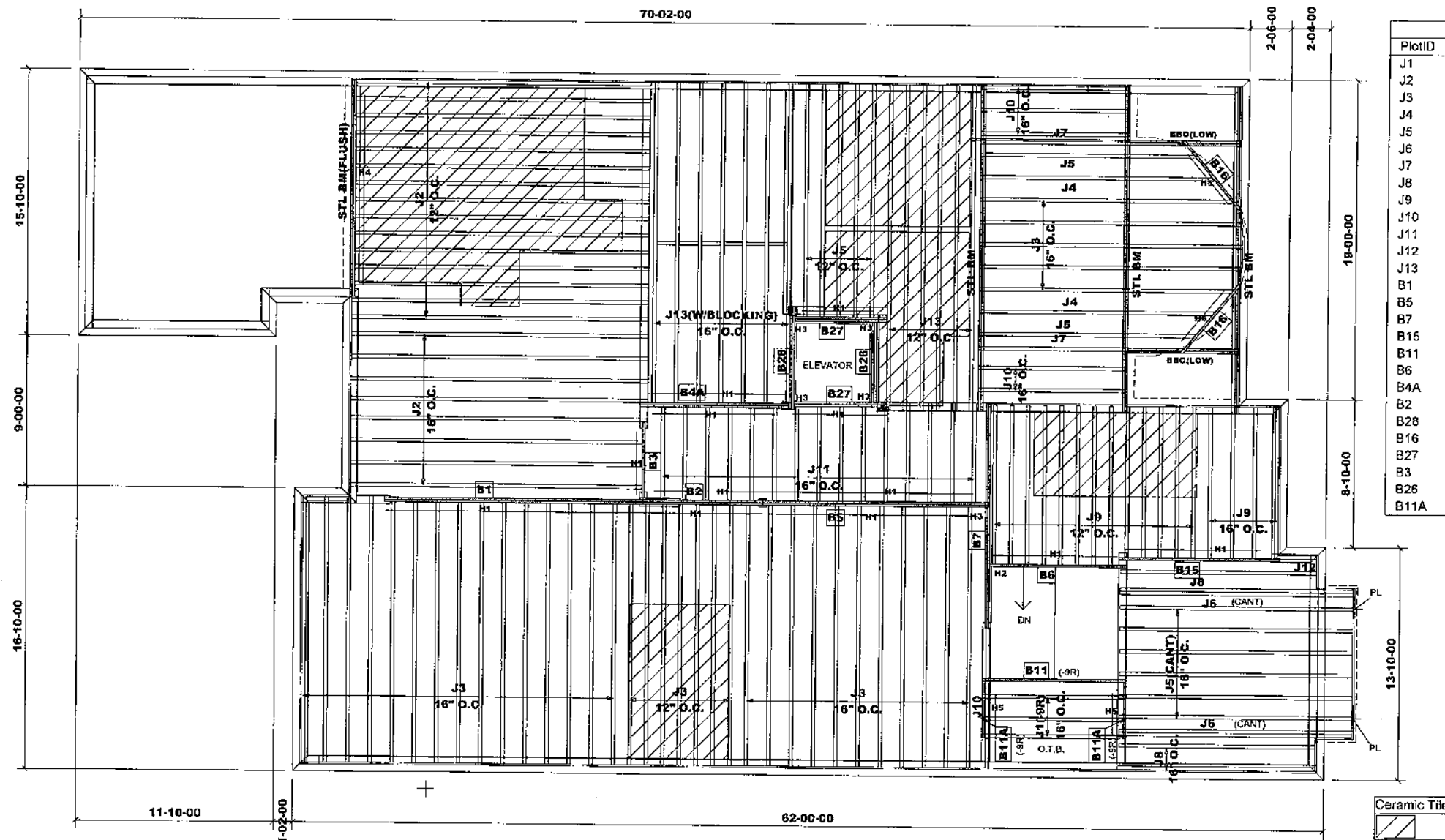
Sheet: 38 of 42

Alpa Roof Trusses Inc.

Maple, Ontario

Salesperson: Derek

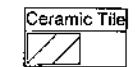
Home Lumber



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	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
B16	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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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	LT259(FM)
H5	LT259(TM)
H6	LSSUH310(FM)
NOTE:	
TM	TOP MOUNT HANGERS
FM	FACE MOUNT HANGERS

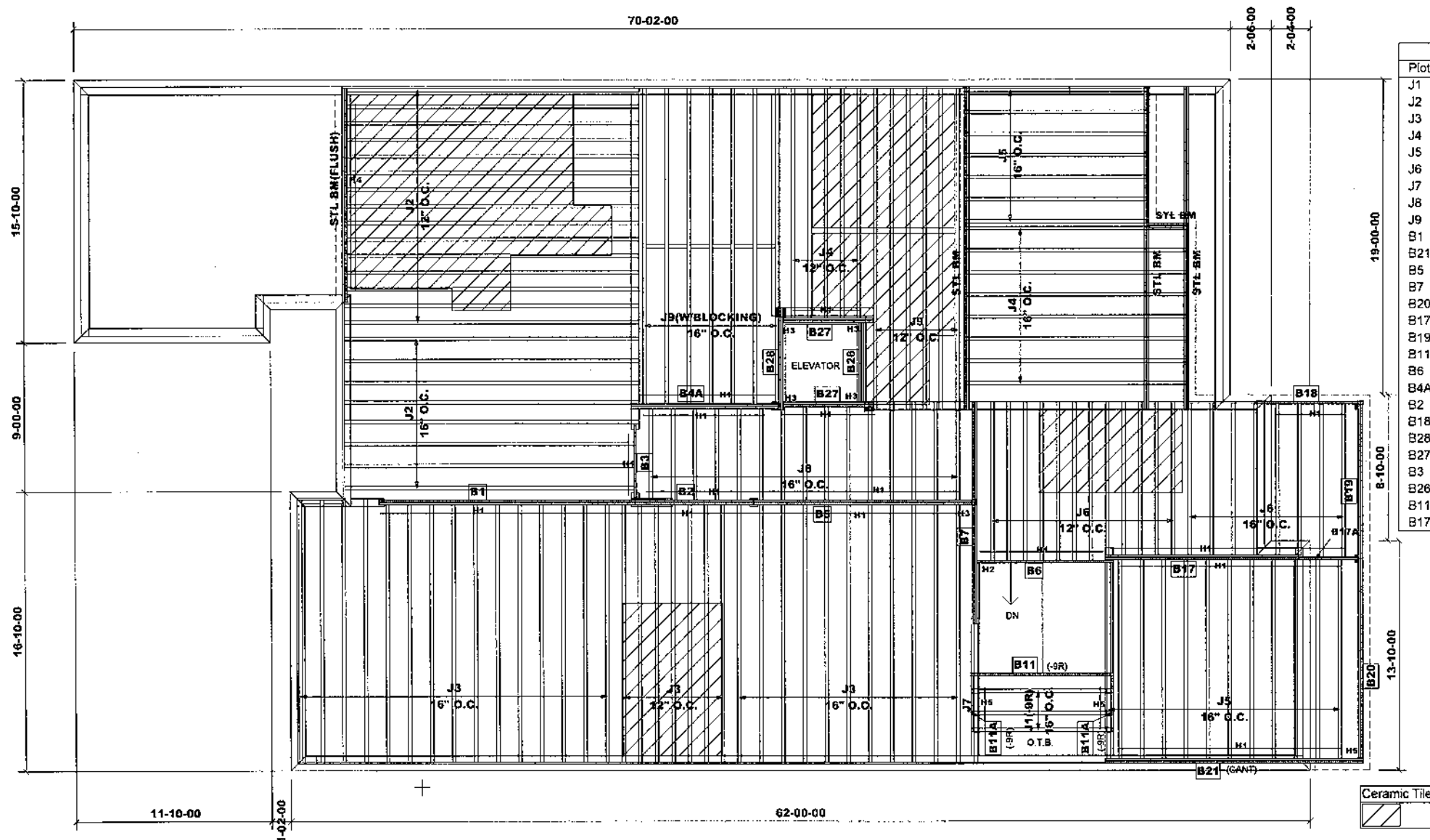
RIMBOARD
 1- 1/8" X 9 1/2" O.S.B.
 1- 1/8" X 11 7/8" O.S.B.
SUBFLOOR - 3/4" NAILED & GLUED
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BBO - BEAM BY OTHERS



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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



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

Second Floor Framing

Do not scale - refer to architectural plans for dimensions

PlotID	Length	Products			Fab Type
		Product	Pieces	Net Qty	
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
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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
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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:
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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)

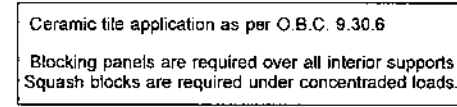
Project: Pine Valley

Date: March 25, 2020

Sheet: 41 of 42

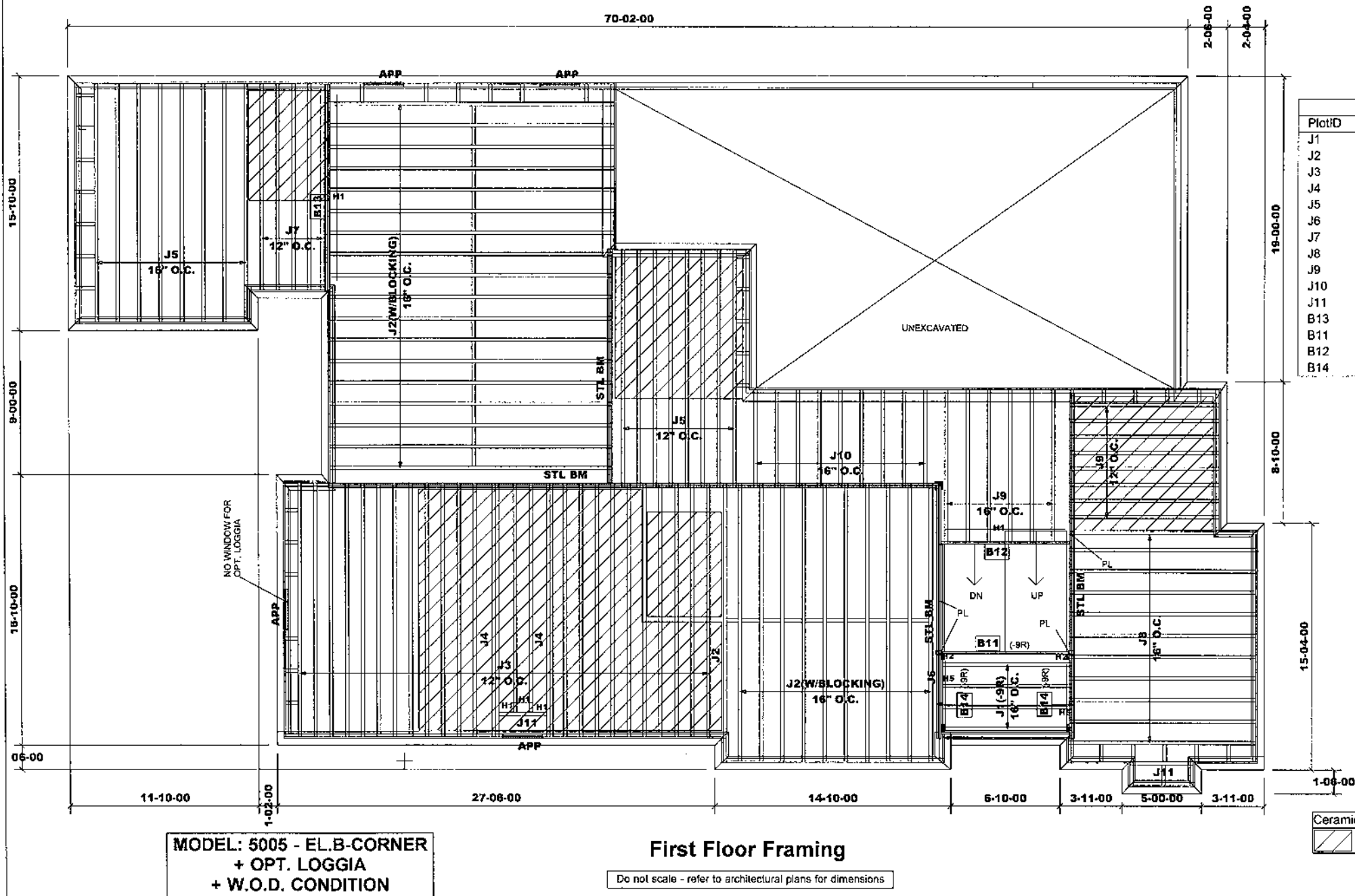
Maple, Ontario

Home Lumber



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
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.

JT/PL: 45147/105729

Builder: Gold Park

Location: Vaughan

Designer: NL

Alpa Roof Trusses Inc.

Salesperson: Derek

LI: 318279(290684)

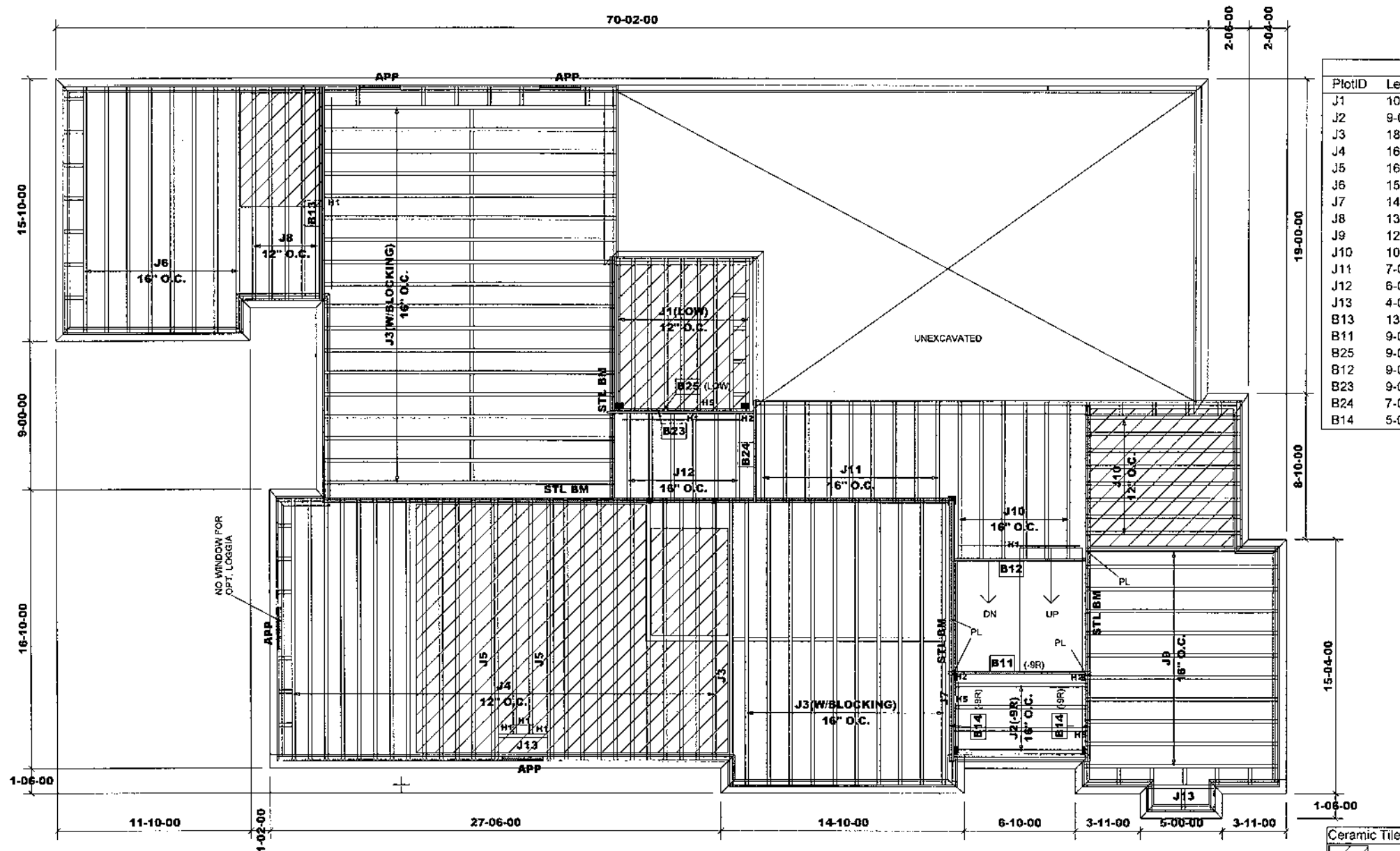
Project: Pine Valley

Date: March 25, 2020

Sheet: 2 of 8

Maple, Ontario

Home Lumber



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
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

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

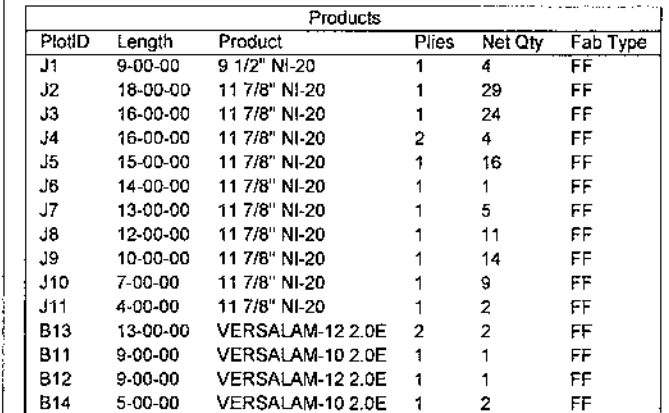
APP - AS PER PLAN
BBO - BEAM BY OTHERS

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/SUNKEN
+ OPT. LOGGIA & W.O.D.**

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



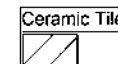
TM -----TOP MOUNT HANGERS
FM-----FACE MOUNT HANGERS

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

APP - AS PER PLAN
BBO - BEAM BY OTHERS

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

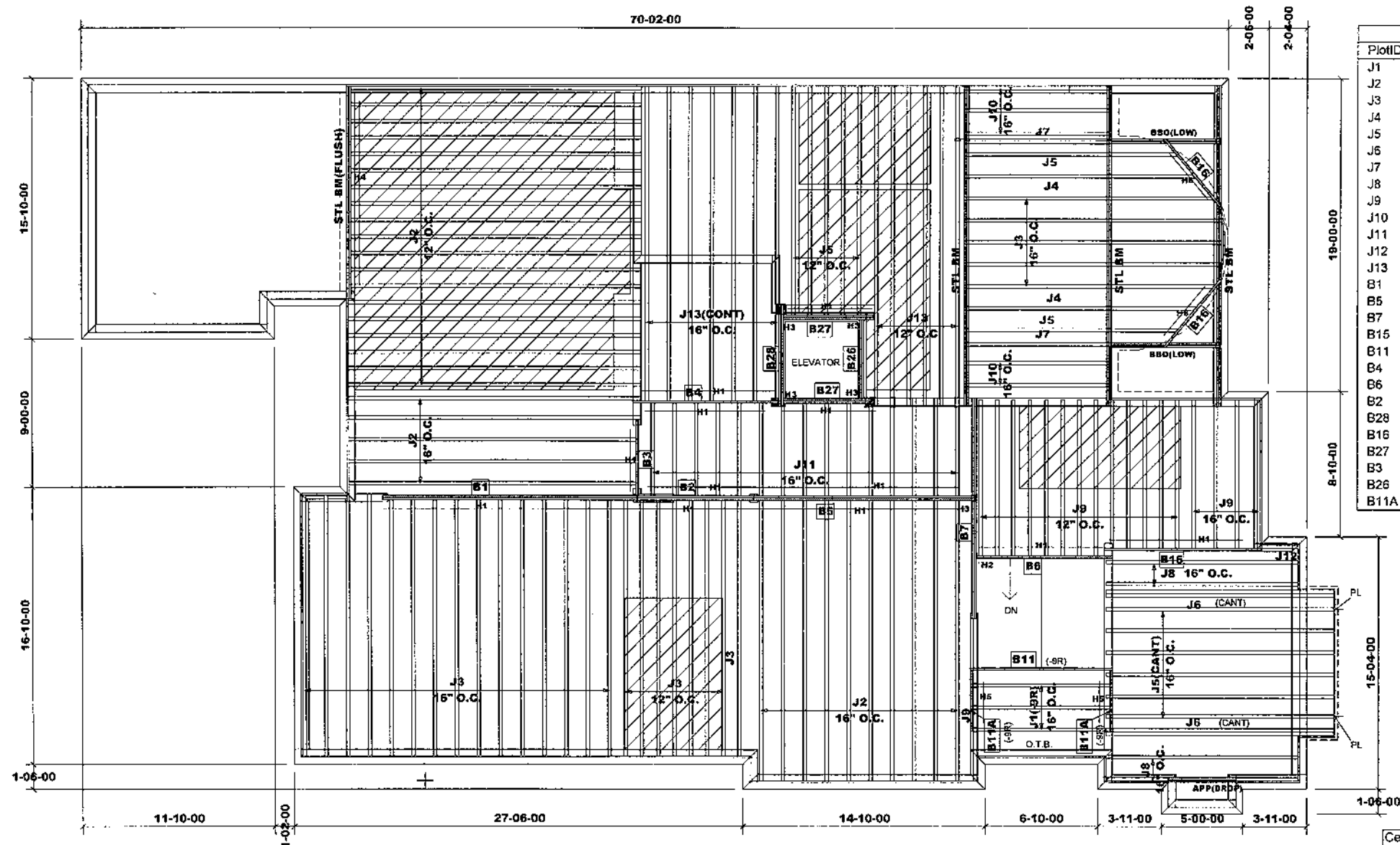
Blocking panels are required over all interior supports.
Squash blocks are required under concentrated loads.



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



Ceramic Tile

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 — HUS410(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
BSO - BEAM BY OTHERS

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

Provide 1-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)

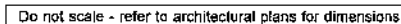
Project: Pine Valley

Date: March 25, 2020

Sheet: 5 of 8

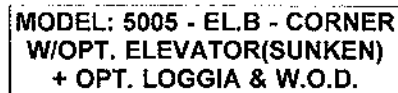
Maple, Ontario

Home Lumber



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





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:

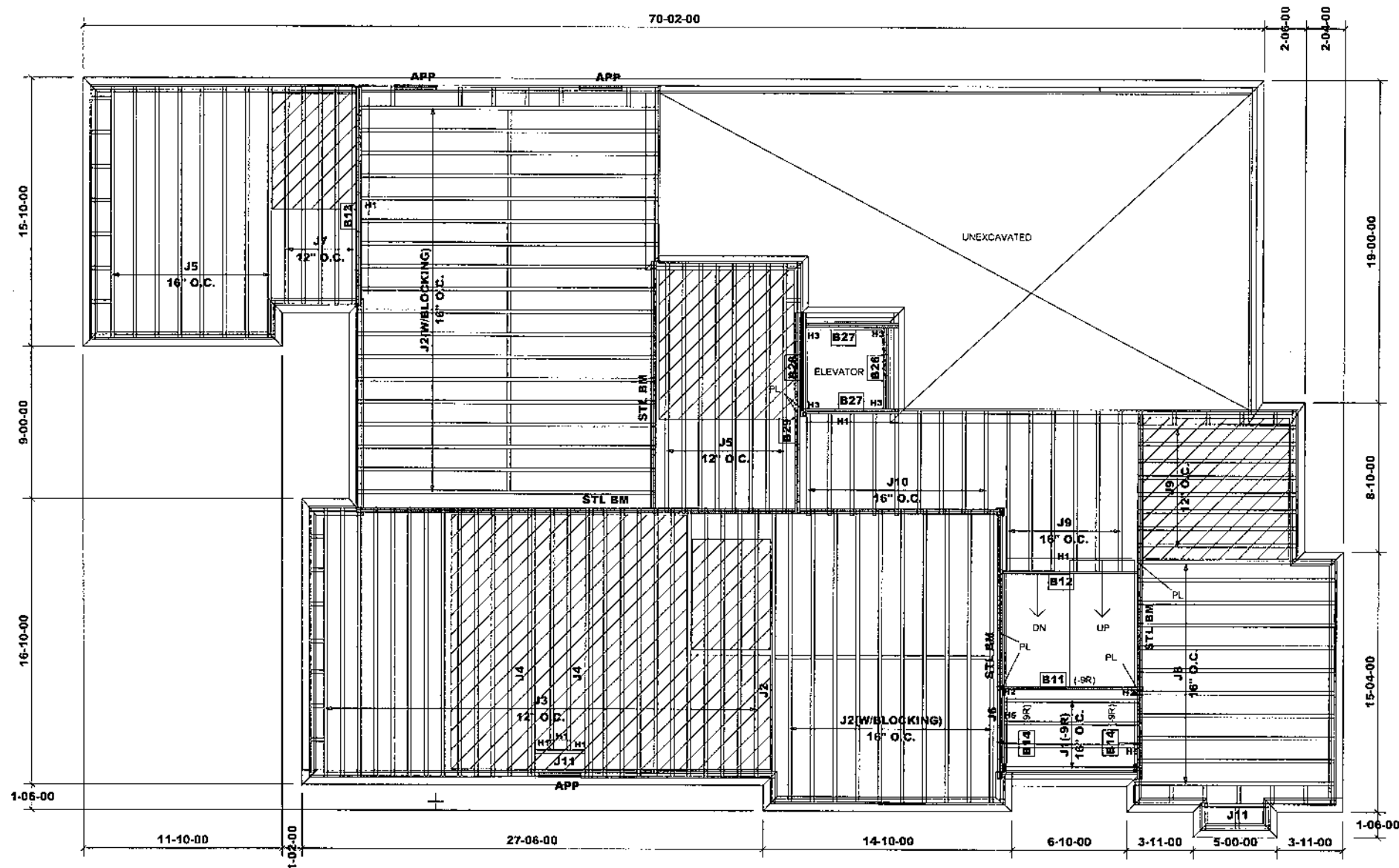
TM-----	TOP MOUNT HANGERS
FM-----	FACE MOUNT HANGERS

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.

Ceramic Tile	
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MODEL: 5005 - EL.B - CORNER
W/OPT. ELEVATOR
W/I.O.D. & W.O.B.

First Floor Framing

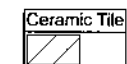
Do not scale - refer to architectural plans for dimensions

Products					
PlotID	Length	Product	Piles	Net Qty	Fab Type
J1	9-00-00	9 1/2" NI-20	1	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

B01 (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

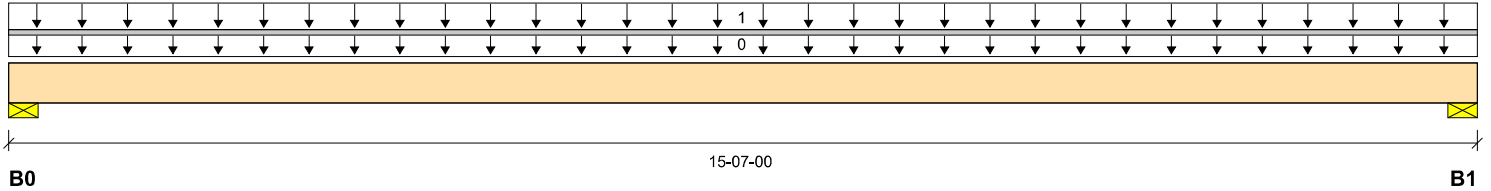
Specifier:

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"	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

B02 (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

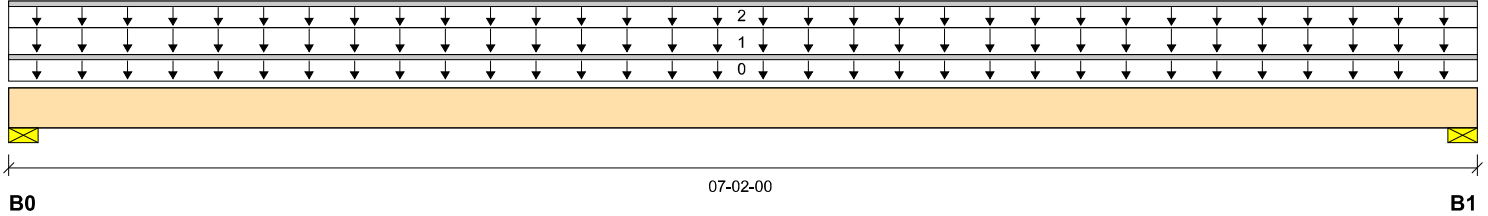
Specifier:

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"	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

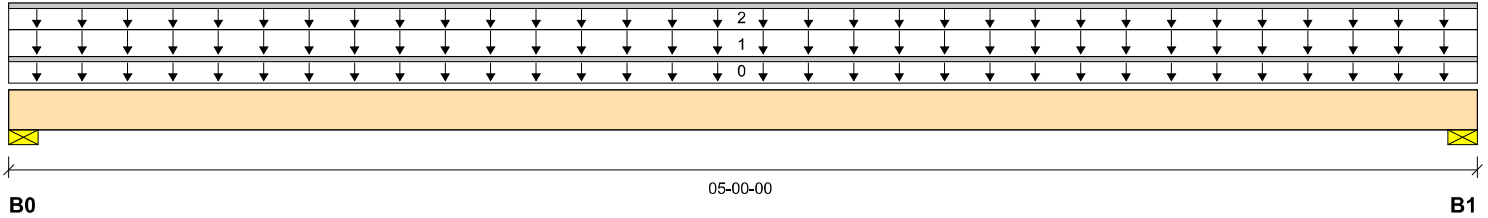
Specifier:

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

B04 (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

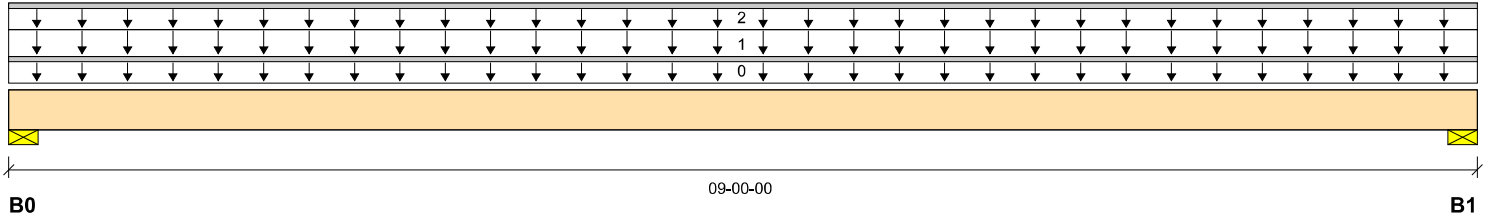
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

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



B4A (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

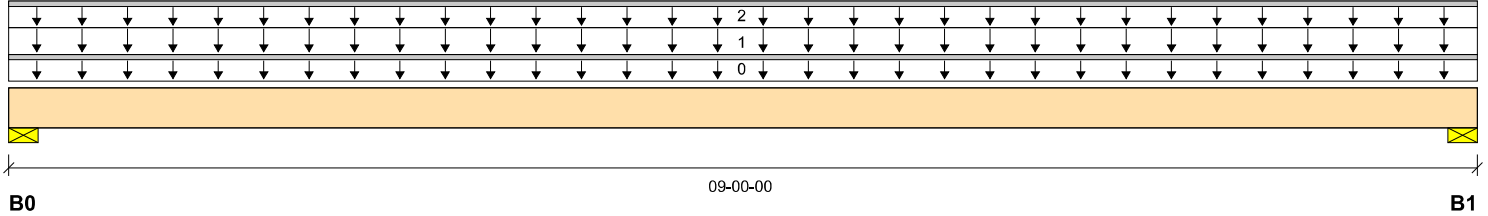
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-00-00

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

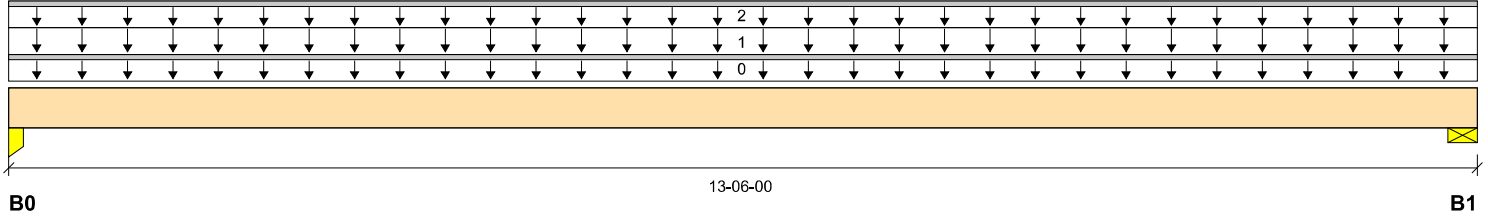
Specifier:

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

B06 (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

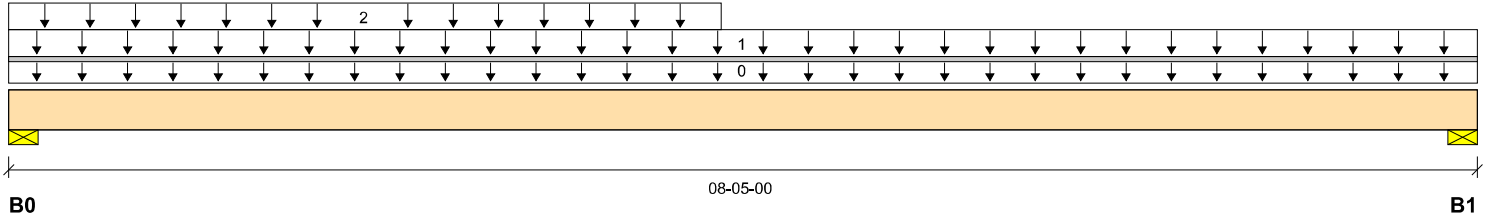
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 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

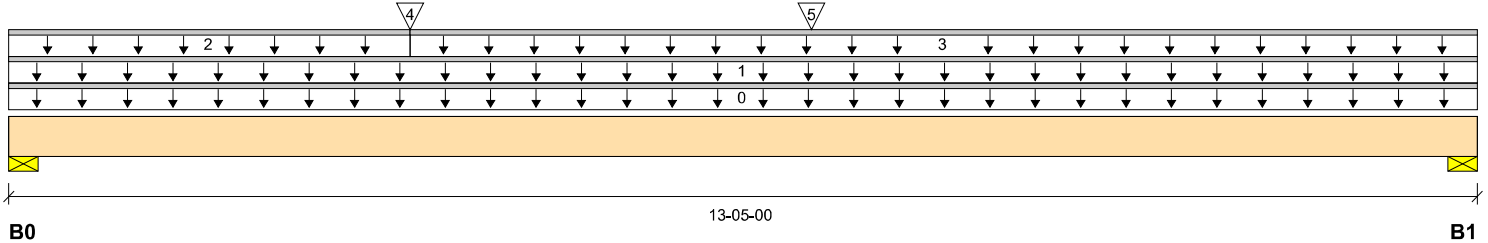
Specifier:

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

B08 (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

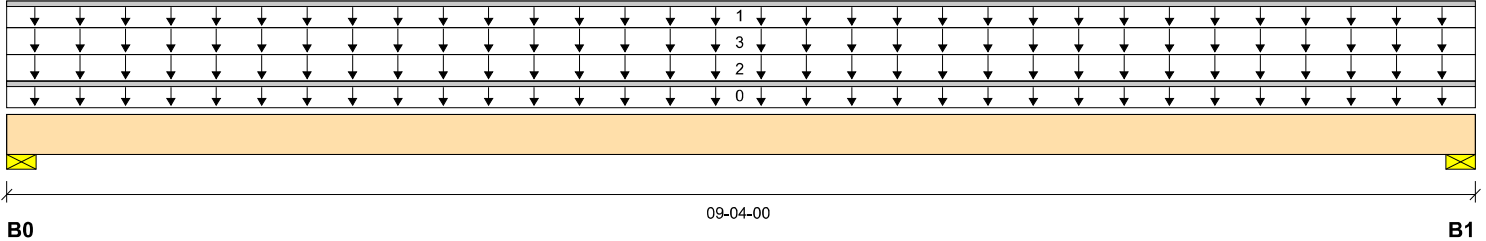
Specifier:

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"	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

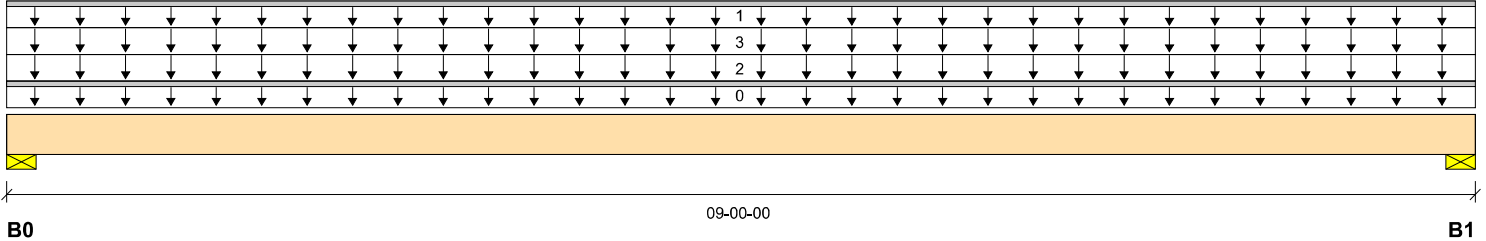
Specifier:

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

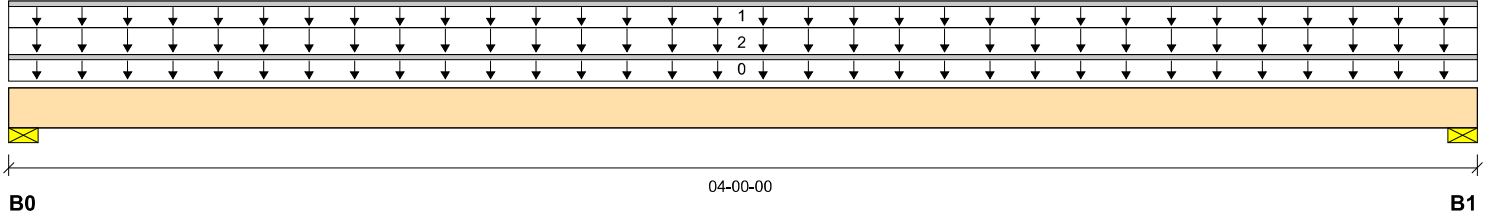
Specifier:

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

Build 7555

Job name: 45147 (5005)

Address: Pine Valley

City, Province, Postal Code: Vaughan, ON

Builder: Gold Park

Code reports: CCMC 12472-R

B11 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

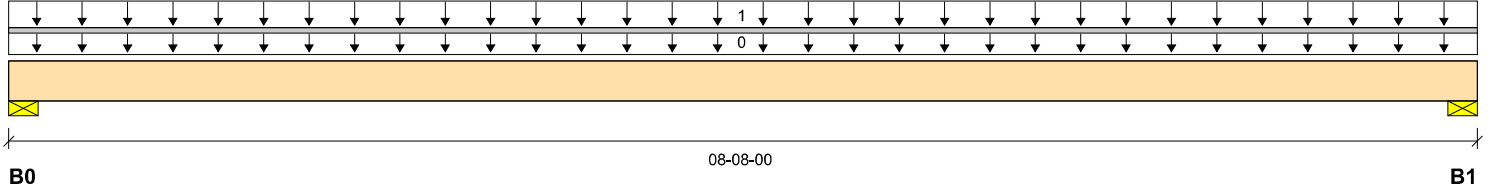
File name: 318279

Description: Second Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 08-08-00

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	Dead	Snow	Wind	Tributary
0	Self-Weight	Unf. Lin. (lb/ft)	L	00-00-00	08-08-00	Top	1.00	0.65	1.00	1.15	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

Disclosure

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SE007873

B12 (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

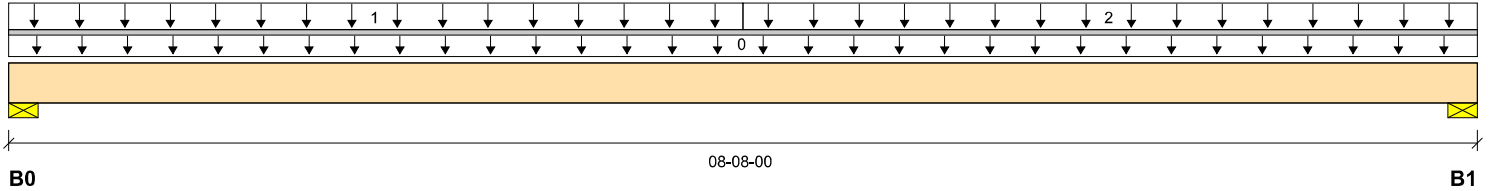
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 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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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

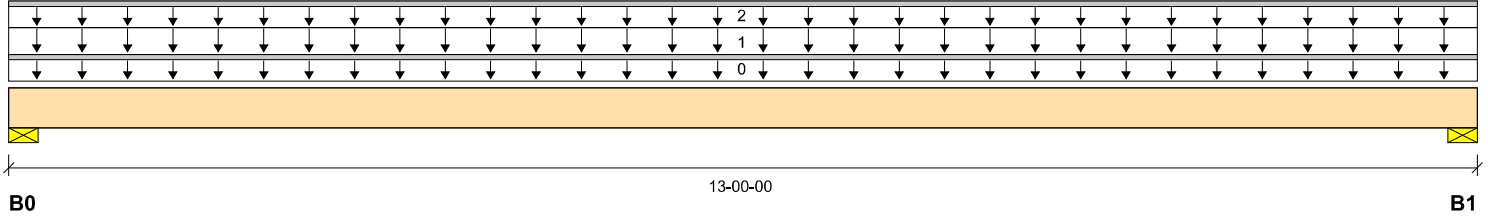
Specifier:

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

B14 (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

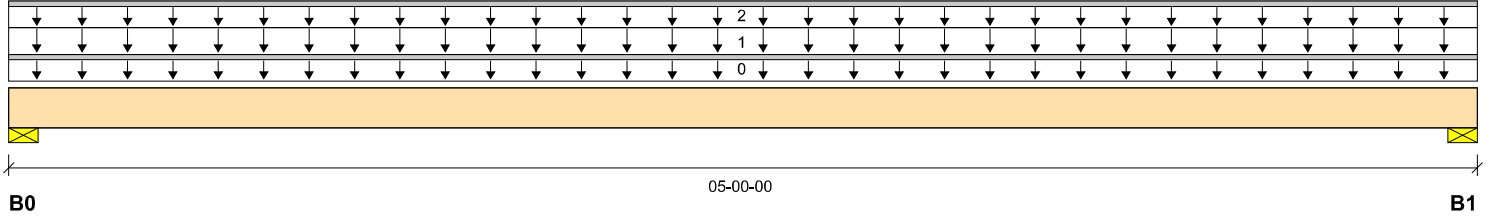
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-00-00

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

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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

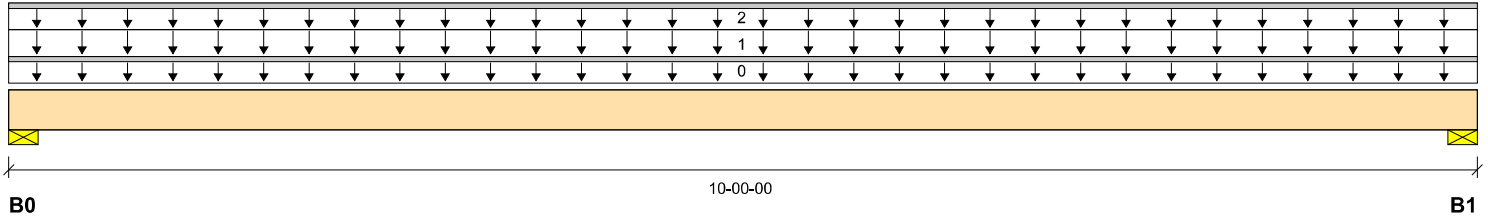
Specifier:

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

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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

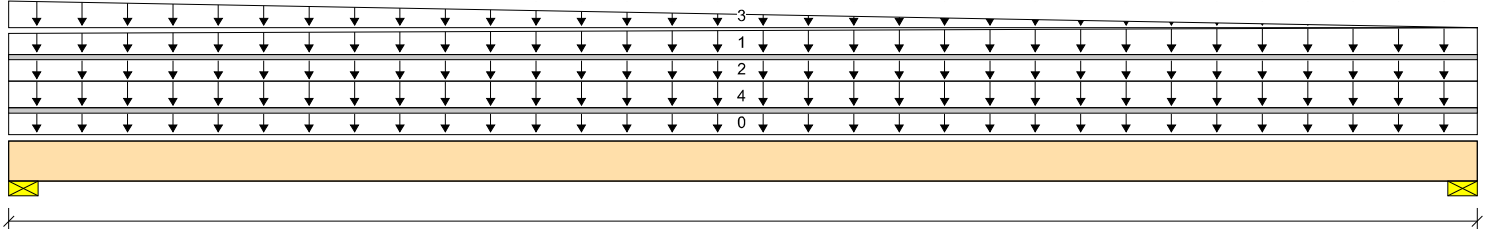
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses


 B0 B1
 Total Horizontal Product Length = 05-06-00

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

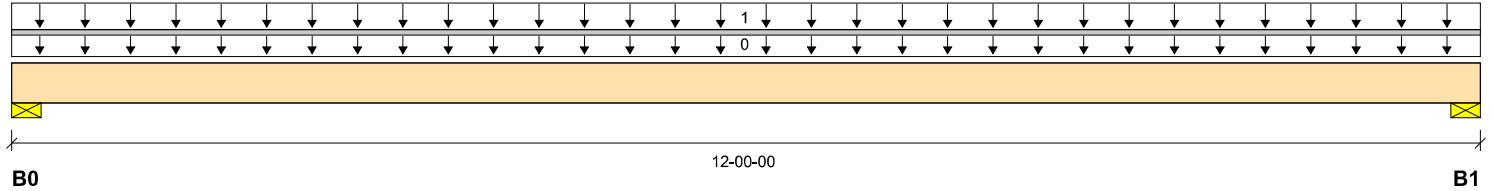
Specifier:

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

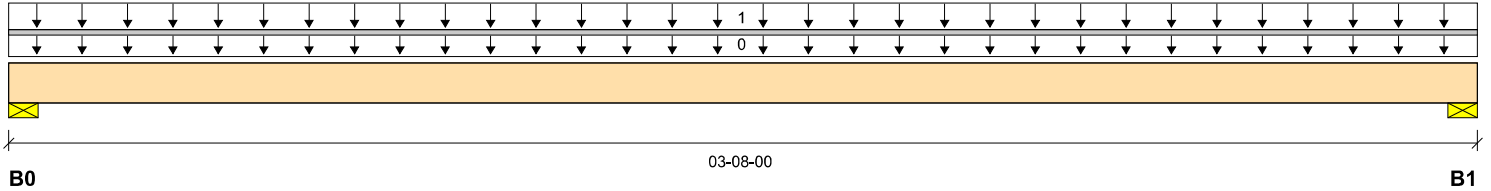
Specifier:

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

Disclosure

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

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

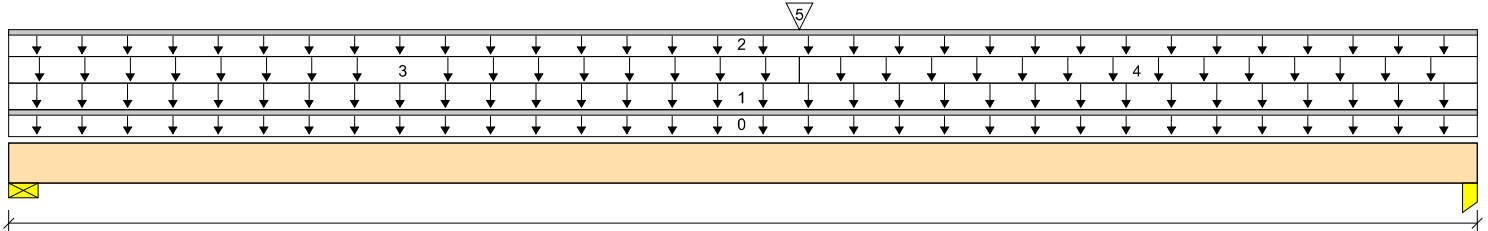
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 06-06-00

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

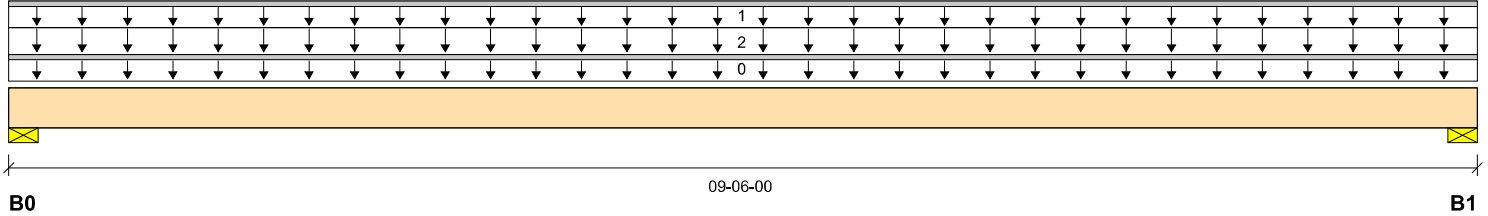
Specifier:

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

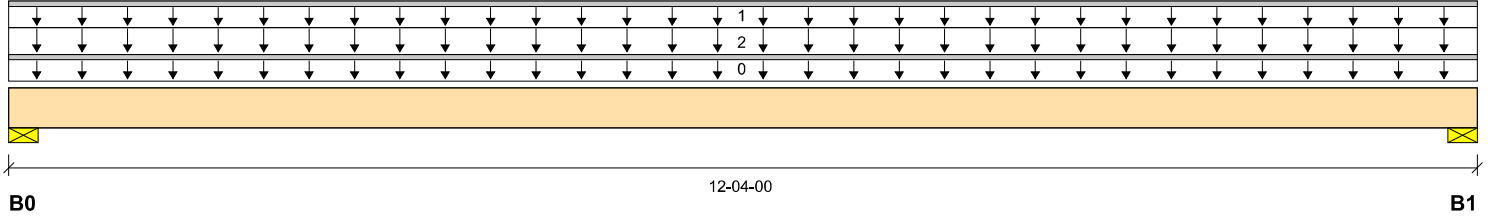
Specifier:

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

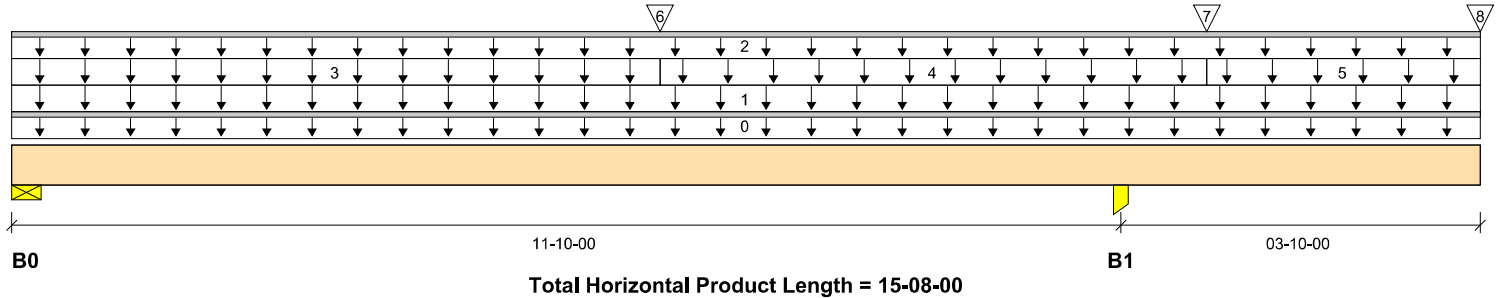
Specifier:

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

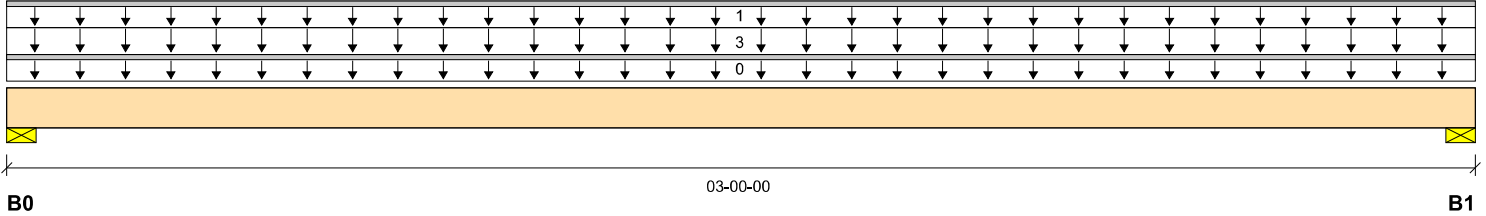
Specifier:

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

B23 (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

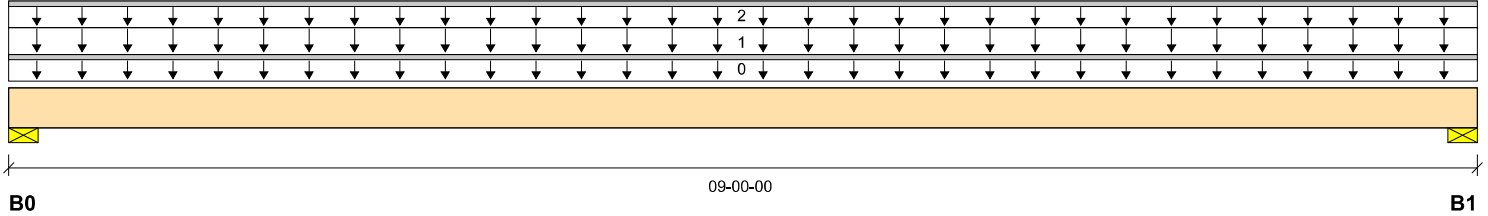
Specifier:

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"	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

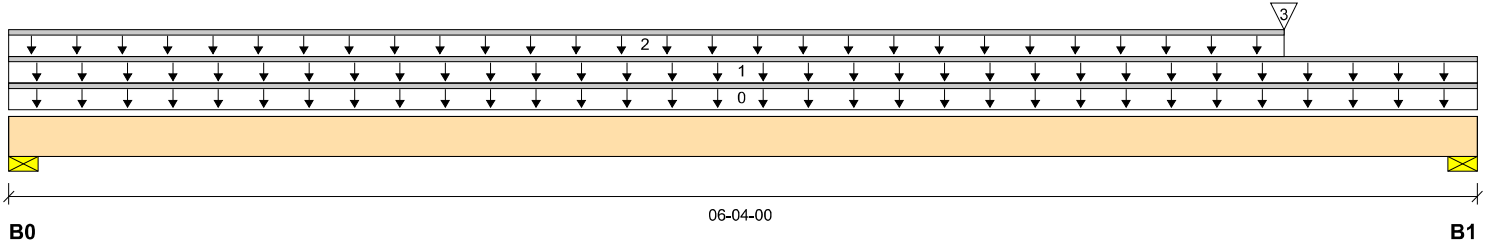
File name: 318279

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

SE007887

B25 (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

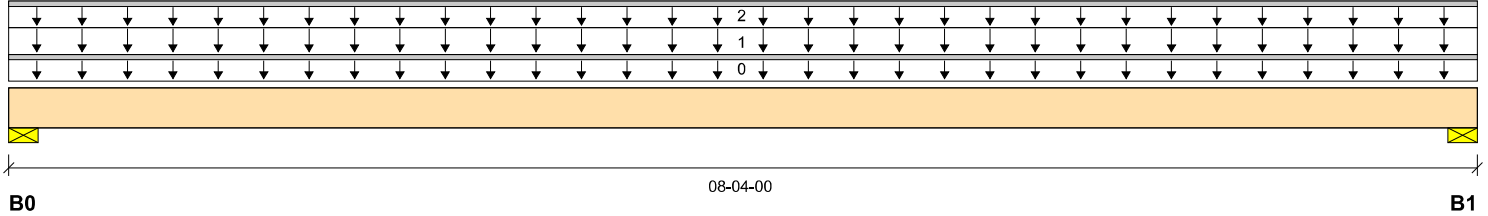
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 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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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

SE007888

B26 (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

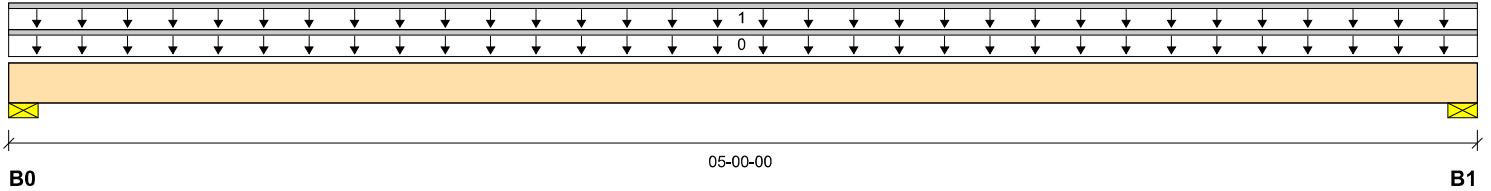
Specifier:

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"	67 / 0	215 / 0		
B1, 3-1/2"	67 / 0	215 / 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		12			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

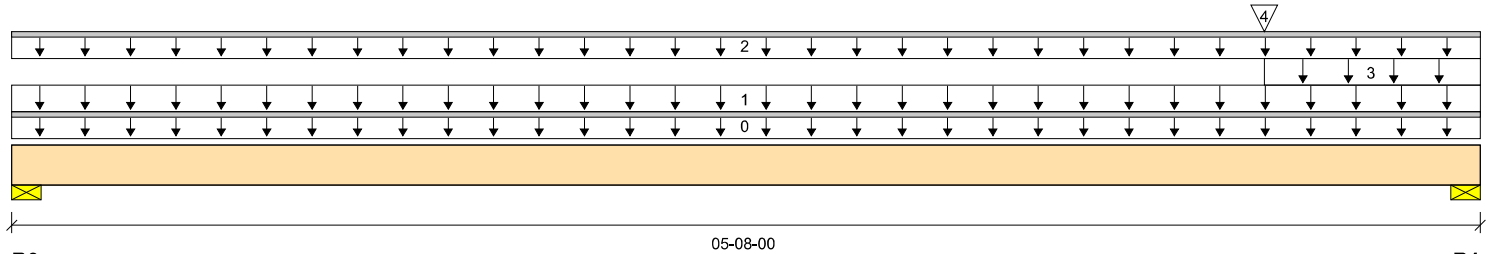
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-08-00

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

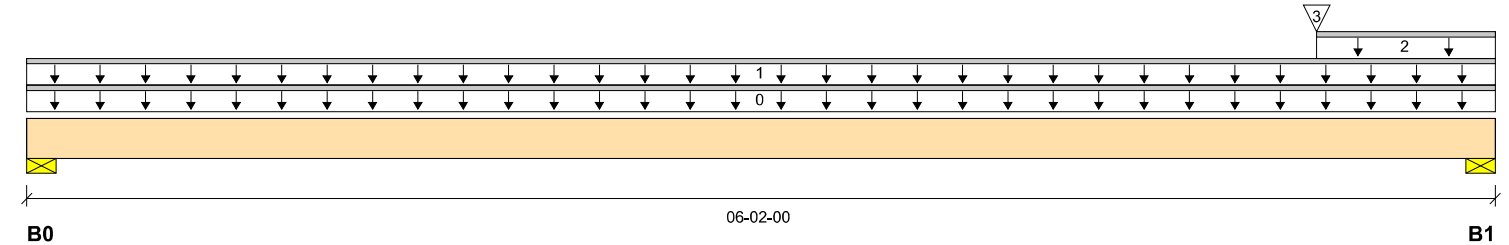
Specifier:

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

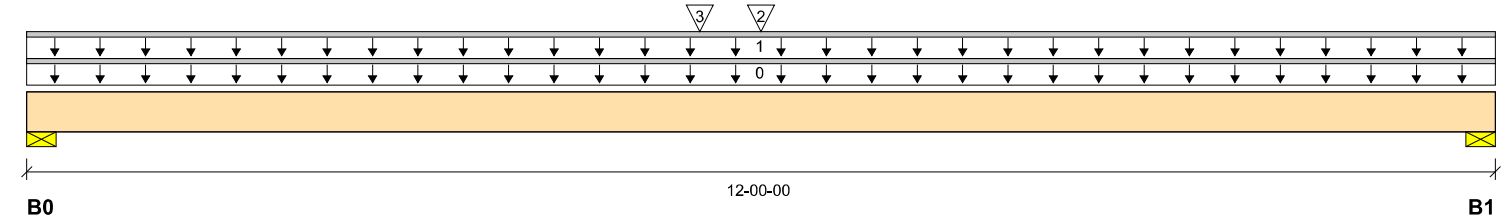
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 12-00-00

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

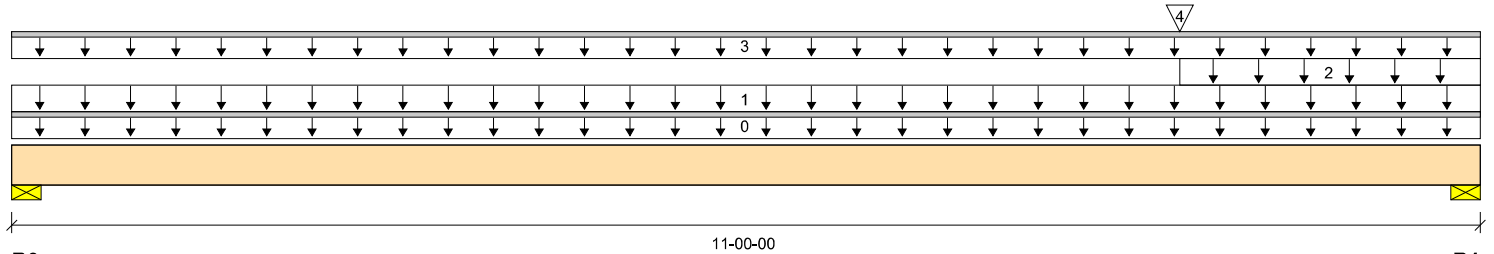
Specifier:

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



B31 (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

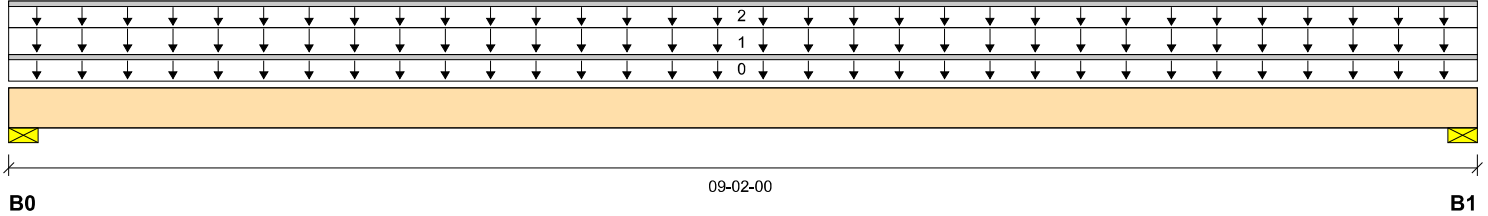
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-02-00

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.

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

SE007894



B32 (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

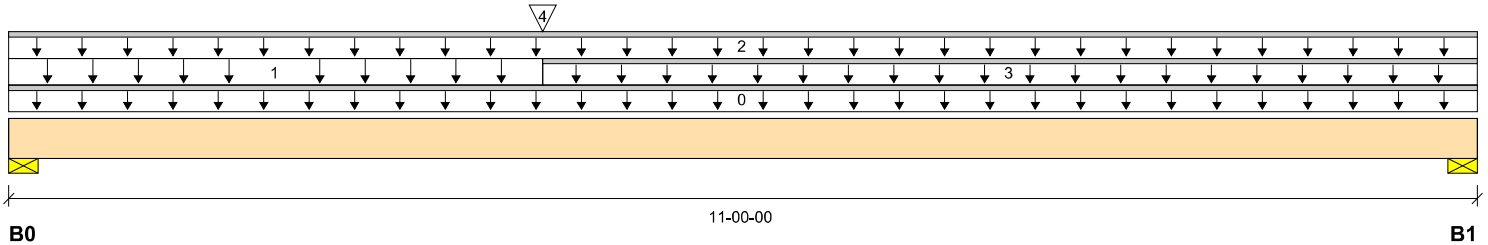
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 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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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

SE007895

B33 (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

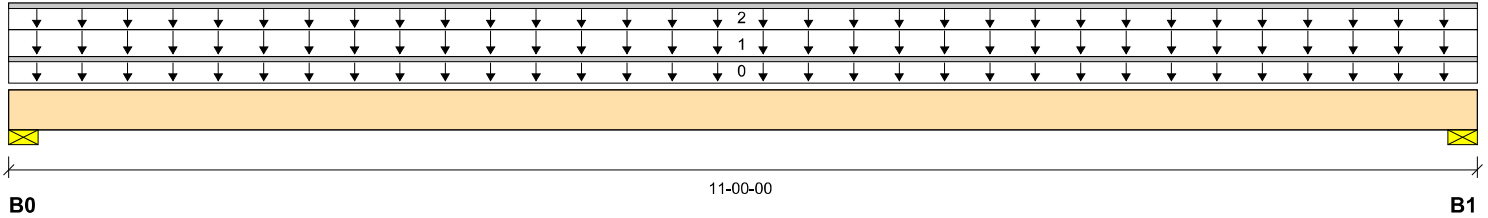
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 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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BC CALC®, BC FRAMER®, AJS™, ALLJOIST®, BC RIM BOARD™, BCI®, BOISE GLULAM™, BC FloorValue®, VERSA-LAM®, VERSA-RIM PLUS®,

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

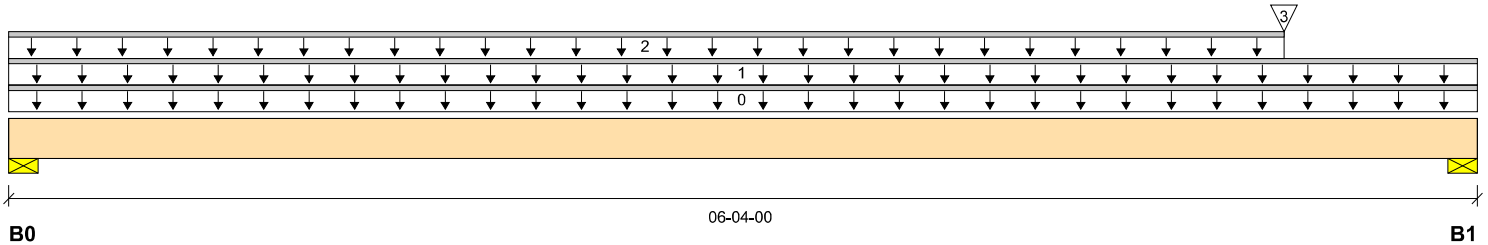
Specifier:

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

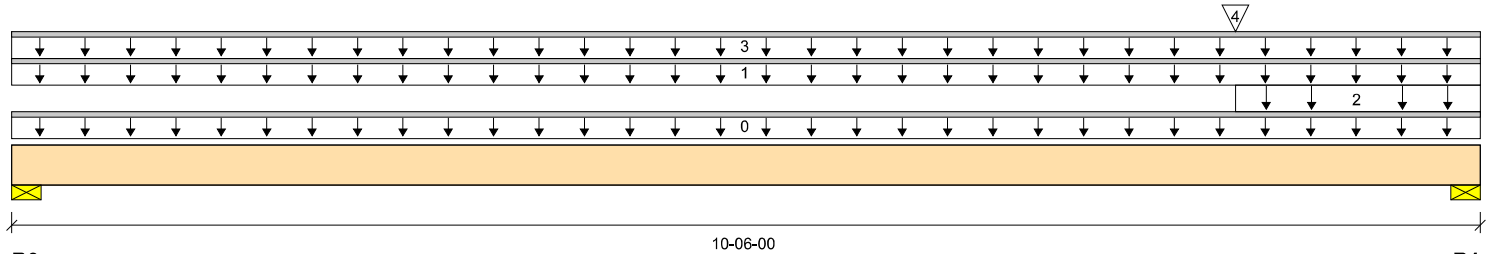
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 10-06-00

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

B36 (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

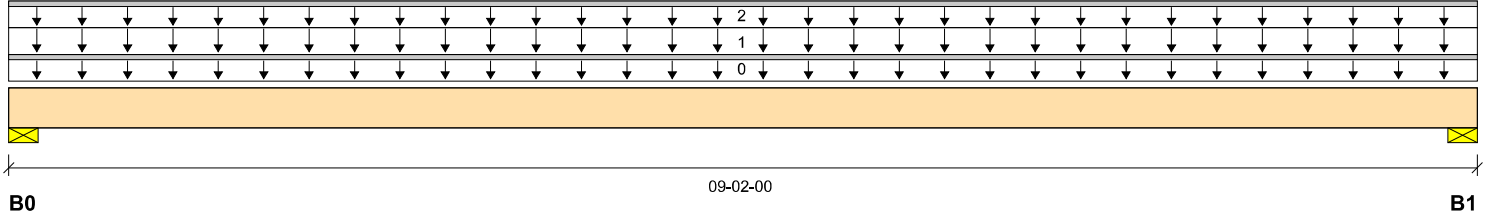
Specifier:

Builder: Gold Park

Designer: NL

Code reports: CCMC 12472-R

Company: Alpa Roof Trusses



Total Horizontal Product Length = 09-02-00

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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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

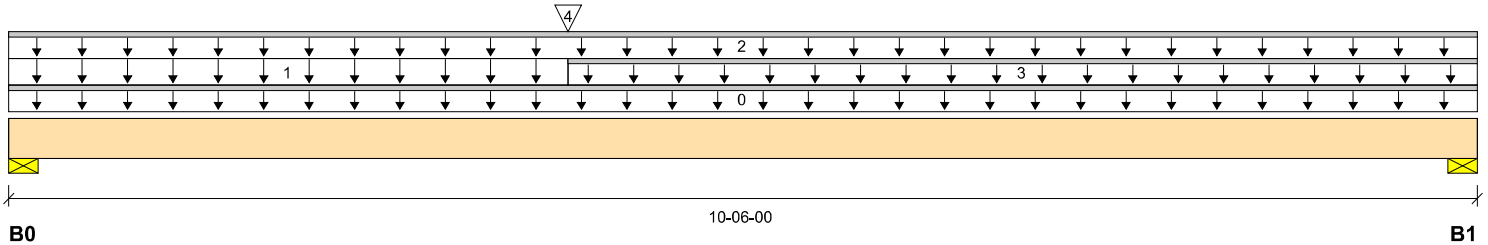
Specifier:

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

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SE007900

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

B38 (Floor Beam)

Dry | 1 span | No cant.

March 25, 2020 15:28:29

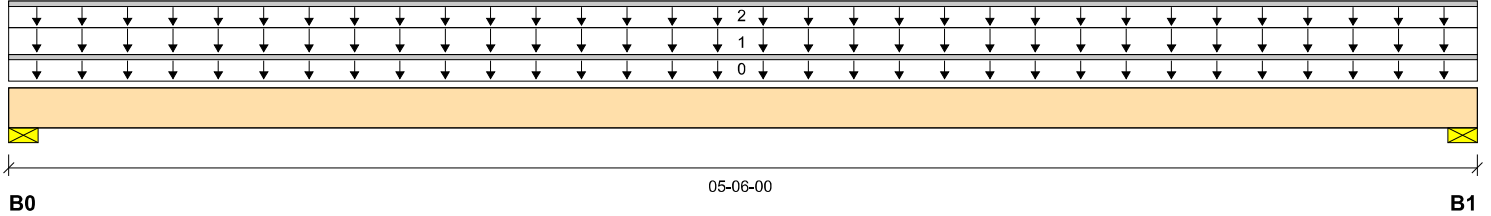
File name: 318279

Description: First Floor Framing

Specifier:

Designer: NL

Company: Alpa Roof Trusses



Total Horizontal Product Length = 05-06-00

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



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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

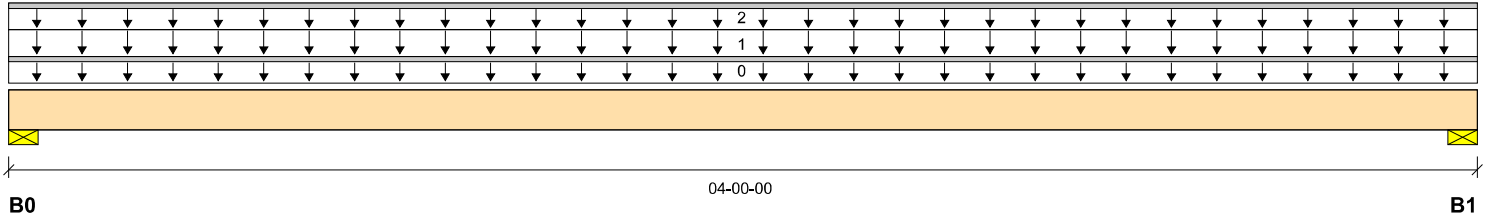
Specifier:

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


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SE007902

B40 (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

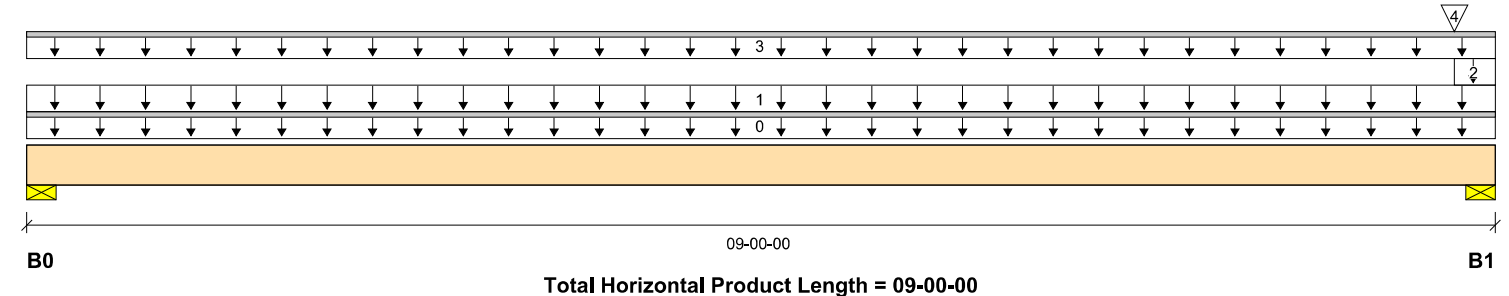
Specifier:

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"	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

B41 (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

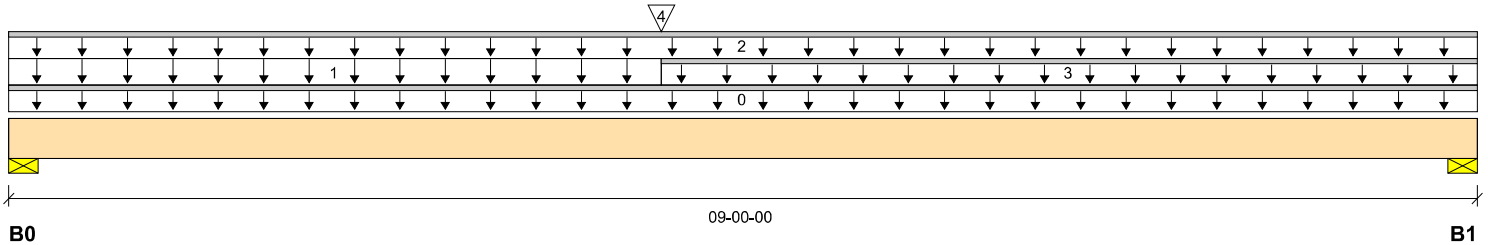
Specifier:

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"	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

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®,

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

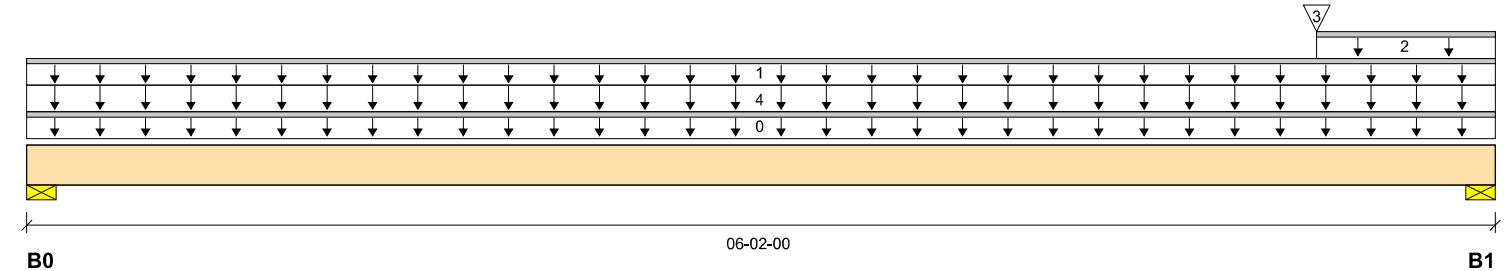
Specifier:

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

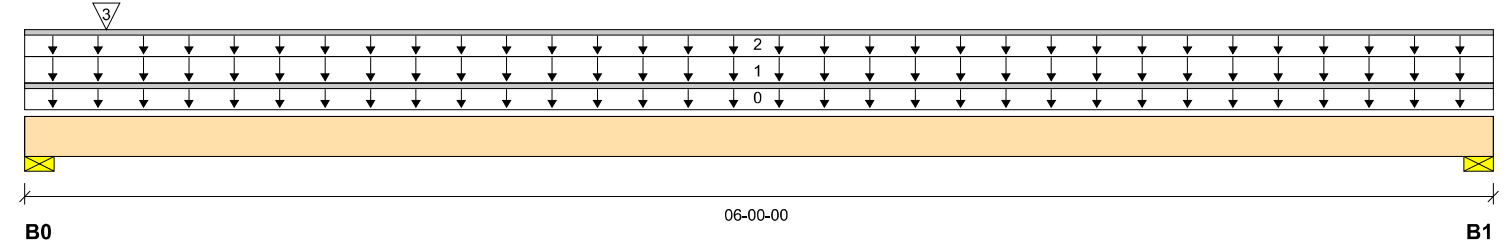
Specifier:

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

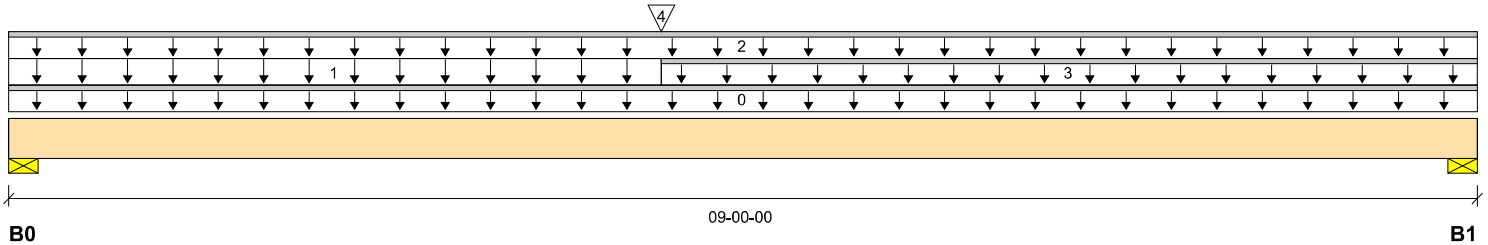
Specifier:

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

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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:

1. 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.
2. For multiple-span applications, the end spans shall be 40% or more of the adjacent span.
3. Minimum bearing length shall be 1-3/4 inch for end bearings, and 3-1/2 inches for intermediate bearings.
4. Bearing stiffeners are not required when I-joists are used in accordance with this table, except as required for hangers.
5. 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

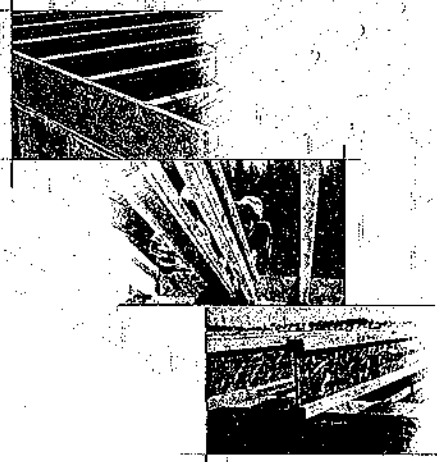
Installation must comply with latest documentation on I-Joist and other Nordic products from the <http://nordic.ca/>

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:



SAFETY AND CONSTRUCTION PRECAUTIONS



Do not work on I-joists until fully fastened and braced, or safety hazards can result.



Never stack building materials over unfastened I-joists. Once sheathed, do not over-draw 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.

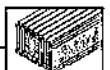
Avoid Accidents by Following these Important Guidelines:

- Before and while each I-joist is installed, using ladders, blocking panels, rim board, and/or cross-bracing at joist ends. When I-joists are applied continuously over interior supports and a load-bearing wall is placed at end location, blocking will be required at the interior support.
- When the building is completed, the floor sheathing will provide lateral support for the top flange of the I-joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary shoring 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 vertical member at the end of each bay. Top ends of bracing bracing over at least two I-joists.
 - Or, shoring (temporary or permanent) can be nailed to the top flange of the first 4 feet of I-joists at the end of the bay.
- For cantilevered I-joists, brace top and bottom flanges, and brace ends with diagonal panels, rim board, or cross bracing.
- 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 diagonal 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 wall anchors when required can result in serious accidents. Follow these Installation Guidelines carefully.

STORAGE AND HANDLING GUIDELINES

- Bundles wrap can be slippery when wet. Avoid walking on wrapped bundles.
- Store, stock, and handle I-joists vertically and level only.
- Always stack and handle I-joists in the upright position only.
- Do not store I-joists in direct contact with the ground and/or moisture.
- Protect I-joists from weather, and use spacers to separate bundles.
- Bundled ends 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.
 - Crane the bundles so that the ends 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 CHAIN TO REPAIR A DAMAGED I-JOIST.

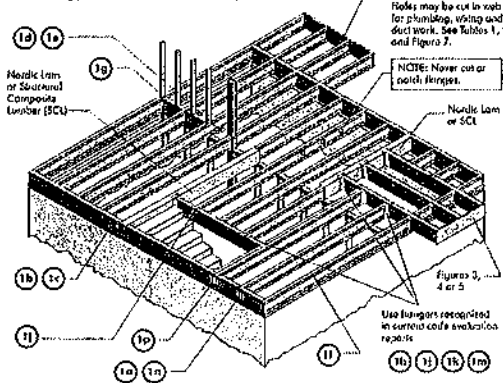


INSTALLING NORDIC I-JOISTS

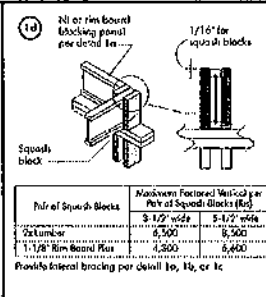
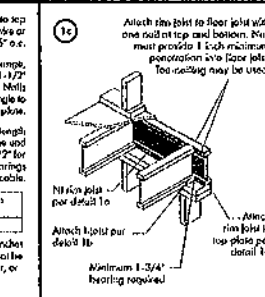
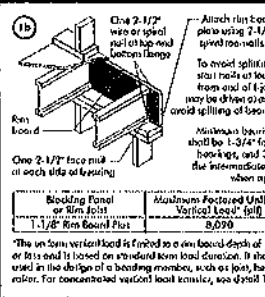
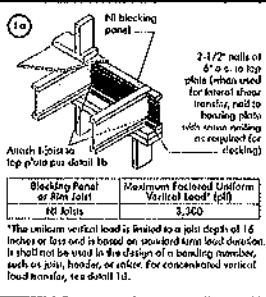
- Before laying out floor system components, verify that I-joist flange widths match bearing widths. If not, contact your supplier.
- Except for ending to lengths, I-joist flanges should never be cut, drilled, or notched.
- Install I-joists so that top and bottom flanges are within 1/2" inch of true 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 ladders, rest I-joists firmly in ladder bottoms to maintain system.
- Leave a 1/2" inch gap between the I-joist and end of bearing.
- Concentrated loads greater than those that are normally expected in residential construction should only be applied to the top surface of the top flange. Normal concentrated loads include built-in lighting fixtures, mobile equipment and security cameras. Never suspend vertical 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 walls.
- Never install I-joists where they will be permanently exposed to moisture, or where they will come in direct contact with concrete or masonry.
- Restrain ends of floor joists to prevent rollover. Use rim board, rim joist or joist blocking panels.
- For I-joists installed over end bearings bearing walls, use full depth blocking panels, rim board, or squish blocks (sprinkle 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 use I-joist compatible depth allowed.
- Provide permanent lateral support of the bottom flange of all I-joists at interior supports of multiple-span joists. Shrinkage, support the bottom flange of all cantilevered I-joists at the end support next to the cantilevered end. In the cantilevered end, the gypsum wallboard ceiling provides the lateral support. Until the first 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.
- End spacing: Space walls 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 blocking bracing and blocking panels have been omitted for clarity.



All notes shown in the above details are assumed to be common wire nails unless otherwise noted. 3" (10.127" dia.) common solid ends may be substituted for 2-1/2" (6.350" dia.) common wire nails. Framing lumber assumed to be Spruce-Pine-Fir No. 2 or better. Individual components not shown to scale for clarity.



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

1. 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 1.35L + 1.25D. The serviceability limit state includes 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.
2. Spans are based on a composite floor with glued-in steel reinforcement (GFR) consisting of 1/2 inch diameter bars at 12 inch spacing. The reinforcement shall be placed in the top of the joist at the supports. The reinforcement shall be lapped at the supports. The reinforcement shall be lapped at the supports. The reinforcement shall be lapped at the supports.
3. Minimum bearing length shall be 1-3/4 inches for the end bearings, and 3-1/2 inches for the intermediate bearings.
4. Bearing stiffeners are not required when I-joists are used with the spans and spacings given in this table, except as required for hangars.
5. This span chart is based on uniform loads. For applications with other than uniform loads, engineering judgment may be required based on the use of the design properties.
6. Values are based on the United States Building Code (ANSI/ICC-609 Standard, and NBC 2010).
7. SI units conversion: 1 inch = 25.4 mm
1 foot = 0.305 m

MAXIMUM FLOOR SPANS FOR NORDIC I-JOISTS

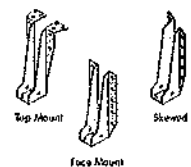
SINGLE AND MULTIPLE SPANS

Joist Depth	Joist Series	Simple spans				Multiple spans			
		On-center bearing	On-center bearing	On-center bearing	On-center bearing	On-center bearing	On-center bearing	On-center bearing	On-center bearing
9-1/2"	N-40	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-40A	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-40B	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-40C	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
11-7/8"	N-50	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-50A	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-50B	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-50C	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
14"	N-60	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-60A	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-60B	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-60C	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
16"	N-70	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-70A	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-70B	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"
	N-70C	12'-1"	14'-2"	12'-9"	13'-5"	14'-3"	12'-4"	14'-0"	14'-3"

CMC EVALUATION REPORT 10021-R

I-JOIST HANGERS

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



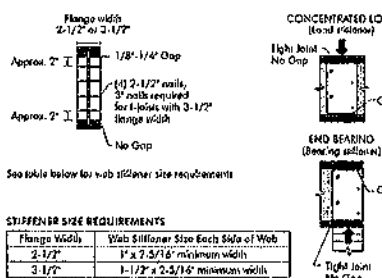
WEB STIFFENERS

RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications unless located in a non-engineered area. The bearing stiffener shall be located in the top flange of the joist. The bearing stiffener shall be located in the top flange of the joist. The bearing stiffener shall be located in the top flange of the joist.
- 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 the flange is at the top.
- A feed 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 cantilevers, anywhere between the cantilever tip and the support. These values are for non-vented 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

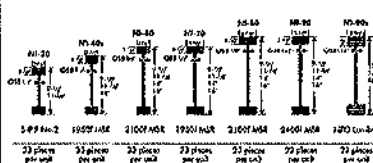
FIGURE 2 WEB STIFFENER INSTALLATION DETAILS



STIFFENER SIZE REQUIREMENTS

Flange Width	Web Stiffener Size Each Side of Web
2-1/2"	1" x 2-5/8" minimum width
3-1/2"	1-1/2" x 2-5/8" minimum width

NORDIC I-JOIST SERIES



Chemical Chloroform Ltd. harvests its own trees, which enables Nordic to produce a more environmentally friendly product through 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.



1a Transfer load from above to bearing below. Install square blocks per detail 1d. Match bearing area of blocks below to feet above.

1b Use single I-joist for loads up to 3,300 psf, double I-joists for loads up to 6,600 psf. (Pillar blocks not required). Attach I-joist to top plate using 2-1/2" nails at 6" o.c.

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

1d Backer block (use if hanger load exceeds 240 lbs). Before installing a backer block to a double I-joist, drive three additional 2" nails through the webs and 1/2" backer block into the backer block wall. Check. Install backer block to top flange. Use twelve 2" nails, clinched when possible. Maximum factored resistance for hanger for this detail = 1,620 lbs.

1e Double I-joist hanger. Top- or face-mount hanger. Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

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

1g For hanger capacity see hanger manufacturer's recommendations. Verify double I-joist capacity to support concentrated loads.

1h BACKER BLOCKS (Blocks must be long enough to permit required end-grain-to-end-grain splicing).

Flange Width	Minimum Thickness Required	Minimum Depth
2-1/2"	3"	5-1/2"
3-1/2"	1-1/2"	7-1/2"

* Minimum grade for backer block material shall be 3-4 EFLR 2 or better for solid form lumber and wood structural panels conforming to CAN/CSA-C307 or CAN/CSA-C307 Standard.

** For face-mount hangers use not less than 3-1/4" for joists with 1-1/2" thick flanges. For 2" thick flanges use end depth minus 3-1/4".

1i Transfer load from above to bearing below. Install square blocks per detail 1d. Match bearing area of blocks below to feet above.

1j Use single I-joist for loads up to 3,300 psf, double I-joists for loads up to 6,600 psf. (Pillar blocks not required). Attach I-joist to top plate using 2-1/2" nails at 6" o.c.

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

1l Backer block (use if hanger load exceeds 240 lbs). Before installing a backer block to a double I-joist, drive three additional 2" nails through the webs and 1/2" backer block into the backer block wall. Check. Install backer block to top flange. Use twelve 2" nails, clinched when possible. Maximum factored resistance for hanger for this detail = 1,620 lbs.

1m Double I-joist hanger. Top- or face-mount hanger. Note: Unless hanger sides laterally support the top flange, bearing stiffeners shall be used.

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

1o For hanger capacity see hanger manufacturer's recommendations. Verify double I-joist capacity to support concentrated loads.

1p BACKER BLOCKS (Blocks must be long enough to permit required end-grain-to-end-grain splicing).

Flange Width	Minimum Thickness Required	Minimum Depth
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** For face-mount hangers use not less than 3-1/4" for joists with 1-1/2" thick flanges. For 2" thick flanges use end depth minus 3-1/4".

The construction details for residential designs are prone to changes.

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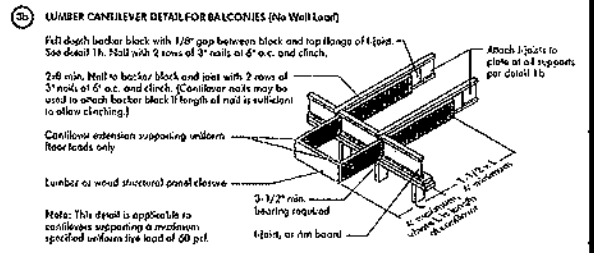
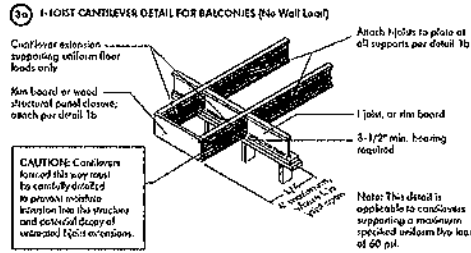
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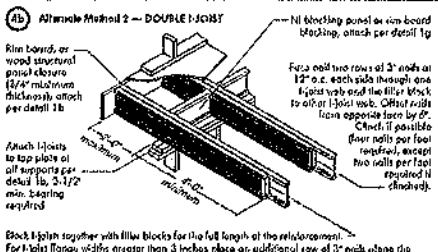
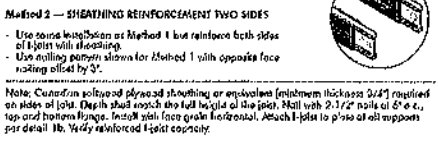
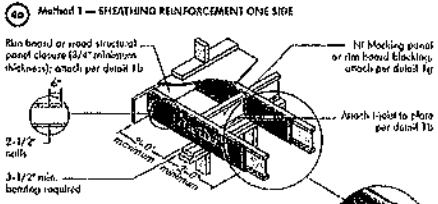
(Nordic Request 1810-095)



CANTILEVER DETAILS FOR BALCONIES (NO WALL LOAD)



CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET (CONCENTRATED WALL LOAD)



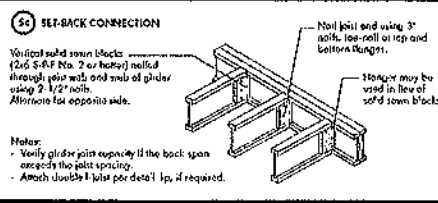
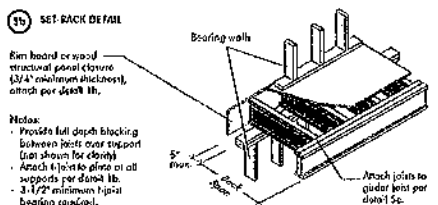
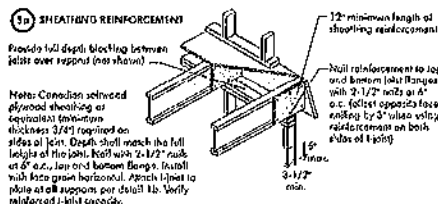
CANTILEVER REINFORCEMENT METHODS ALLOWED

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

1. N = No reinforcement required.
 2. 1 = Reinforced with 3/4" wood structural panel on one side only.
 3. 2 = Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
 4. X = Maximum design load shall be: 15 psf dead load, 30 psf floor live load, and 80 psf roof load. (Wet load is based on 2-0" maximum width of roof overhangs.)
 For larger openings, or multiple 2-0" wide openings spaced less than 6-0" o.c., additional joist trusses with the opening's edge loads may be required.
 5. Note: For joist trusses with a design live load of 40 psf and dead load of 15 psf, and a maximum deflection limit of L/600, the 12" o.c. requirement for lesser spacing.

For conventional joist construction using a ridge beam, the Roof Truss Span column above is equivalent to the distance between the supporting walls and the ridge beam. When the roof is framed using a ridge board, the Roof Truss Span is equivalent to the distance between the supporting walls as a truss is used.
 6. Cantilevered joist supporting glider beams or roof beams may require additional reinforcing.

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



BRICK CANTILEVER REINFORCEMENT METHODS ALLOWED

Joist Depth (in.)	Roof Truss Span (ft)	LL = 30 psf, OL = 15 psf (Joist Spacing (in.))				LL = 40 psf, OL = 15 psf (Joist Spacing (in.))				LL = 50 psf, OL = 15 psf (Joist 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	3	X	X	X
	28	1	X	X	X	2	X	X	X	3	X	X	X
	30	1	X	X	X	2	X	X	X	3	X	X	X
	32	1	X	X	X	2	X	X	X	3	X	X	X
	34	1	X	X	X	2	X	X	X	3	X	X	X
11-7/8	26	1	X	X	X	2	X	X	X	3	X	X	X
	28	1	X	X	X	2	X	X	X	3	X	X	X
	30	1	X	X	X	2	X	X	X	3	X	X	X
	32	1	X	X	X	2	X	X	X	3	X	X	X
	34	1	X	X	X	2	X	X	X	3	X	X	X
14	26	1	X	X	X	2	X	X	X	3	X	X	X
	28	1	X	X	X	2	X	X	X	3	X	X	X
	30	1	X	X	X	2	X	X	X	3	X	X	X
	32	1	X	X	X	2	X	X	X	3	X	X	X
	34	1	X	X	X	2	X	X	X	3	X	X	X
16	26	1	X	X	X	2	X	X	X	3	X	X	X
	28	1	X	X	X	2	X	X	X	3	X	X	X
	30	1	X	X	X	2	X	X	X	3	X	X	X
	32	1	X	X	X	2	X	X	X	3	X	X	X
	34	1	X	X	X	2	X	X	X	3	X	X	X

1. N = No reinforcement required.
 2. 1 = Reinforced with 3/4" wood structural panel on one side only.
 3. 2 = Reinforced with 3/4" wood structural panel on both sides, or double I-joist.
 4. X = Maximum design load shall be: 15 psf dead load, 30 psf floor live load, and 80 psf roof load. (Wet load is based on 2-0" maximum width of roof overhangs.)
 For larger openings, or multiple 2-0" wide openings spaced less than 6-0" o.c., additional joist trusses with the opening's edge loads may be required.
 5. Note: For joist trusses with a design live load of 40 psf and dead load of 15 psf, and a maximum deflection limit of L/600, the 12" o.c. requirement for lesser spacing.

For conventional joist construction using a ridge beam, the Roof Truss Span column above is equivalent to the distance between the supporting walls and the ridge beam. When the roof is framed using a ridge board, the Roof Truss Span is equivalent to the distance between the supporting walls as a truss is used.
 6. Cantilevered joist supporting glider beams or roof beams may require additional reinforcing.

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WEB HOLES

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS:

1. The distance between the inside edge of the support and the cantilever of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
2. Light top and bottom flanges may NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field cut holes should be centered on the middle of the web.
4. The maximum depth of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively. 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 largest 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 for twice the length of the largest side of the largest 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 panelized 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 workmanlike 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 WEB
Simple or Multiple Span for Dead Loads up to 15 psf and Live Loads up to 40 psf

Joist Depth	Joist Spacing	Minimum distance from finish face of any support to center of hole (in.)												Span (feet)
		Round hole diameter (in.)												
		2	3	4	5	6	7	8	9	10	11	12		
9-1/2"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	30"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	36"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	42"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
11-7/8"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	30"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	36"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	42"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
14"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	30"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	36"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	42"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
18"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	30"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	36"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	
	42"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	

1. Above table may be used for field spacing of 24 inches on center or less.

2. Hole location distance is measured from inside face of support to center of hole.

3. Distances in this chart are based on uniformly loaded joists.

OPTIONAL:

This chart may be used for field spacing of 24 inches on center or less.

1. Hole location distance is measured from inside face of support to center of hole.

2. Distances in this chart are based on uniformly loaded joists.

Where: Reduced = Distance from inside face of any support to center of hole, reduced for first three maximum span openings (B). The reduced distance shall not be less than 6 inches from the face of any support to the center of the hole.

Unreduced = The actual measured span distance between the inside face of support (B) and the center of the hole.

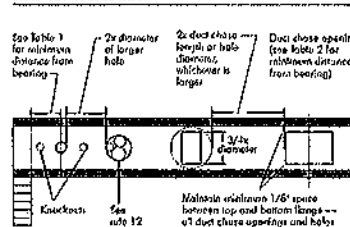
SAF = Span Adjuncted Factor given in this table.

1. The maximum distance from the inside face of any support to the center of the hole shall be as follows:

a. Span greater than 1, use 1 in the above calculation for length.

b. Span 1 or less, use 1 in the above calculation for length.

FIGURE 7
FIELD-CUT HOLE LOCATOR



Knockouts are pre-cut holes provided for the convenience of plumbers. They are 1-1/2 inches in diameter and are spaced 15 inches on center along the length of the joist. Where possible, it is preferable to use knockouts instead of field-cut holes.

Minor drill, cut or notch the flange, or even cut the web.

Holes in webs should be cut with a sharp saw.

For rectangular holes, avoid over-cutting the corners, or this can cause unnecessary stress concentrations. Ideally, round 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 cut 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 (in.)	Joist Spacing (in.)	Minimum distance from finish face of any support to center of opening (in.)											
		1	2	3	4	5	6	7	8	9	10	11	12
10-1/2"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
10-1/2"	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
10-1/2"	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
11-7/8"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
11-7/8"	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
11-7/8"	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
14"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
14"	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
14"	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
18"	16"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
18"	19-1/2"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"
18"	24"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"

1. Above table may be used for field spacing of 24 inches on center or less.

2. Duct chase opening location distance is measured from inside face of support to center of opening.

3. The above table is based on simple span only. For other applications, consult your local distributor.

4. Distances in this chart are based on uniformly loaded joists. For a design live load of 40 psf and dead load of 10 psf, and a live load reduction factor of 1/4. 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. Shape chalk line across the I-joist level first in 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 longest side to the wall, and nail in place. This protects the longest 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 to a sufficient position on side flanges, such as with double I-joists.
6. Apply two lines of glue on I-joists where panel ends meet to assure proper gluing of each end.
7. Allow the first row of panels to be in place, spread glue in the groove of one or two panels at a time. A line laying the next row. Chalk line may be continuous or spaced, but avoid squaring out by applying a thinner line (1/8 inch) then used on I-joist flanges.
8. Tap the second row of panels into place, using a block to protect groove edges.
9. Sagger and joints in each succeeding row of panels. A 1/8-inch space between all end joints and 1/8 inch at all edges, including T&B edges, is recommended. Use a spacer tool or a 1-1/2" common nail to assure uniform and consistent spacing.
10. Complete all nailing of each panel before glue sets. Check the manufacturer's recommendations for cure time. (Warm weather conditions glue setting) Use 2" rings or stay-chairs for panels 2x6 and 2x8, and 2-1/2" rings or stay-chairs for 2x10 panels. Space nails per the table below. Close 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 band.

FASTENERS FOR SHEATHING AND SUBFLOORING(1)

Maximum Joist Spacing (ft.)	Minimum Panel Thickness (in.)	Nail size and type			Maximum Spacing of Fasteners	
		Common Wire or Split Nails	Ring Shaped Nail or Screw	Staples	Edges	Interior
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/CSA-11.20 Standard, Adhesives for Field-Gluing Plywood to Joist 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 gluey check with panel manufacturer.

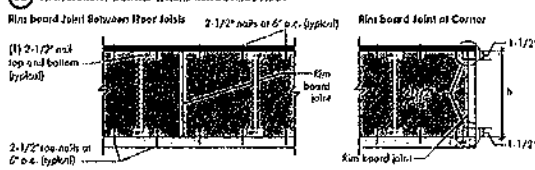
Ref: IRC-CHRC, National Building Code of Canada 2010, Table 9.22.2.5.

IMPORTANT NOTE:

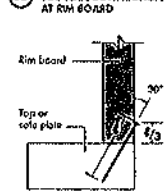
Floor sheathing must be field glued to the I-joist flanges in order to achieve the minimum joist spans in this document. If sheathing is nailed only, joist spans must be verified with your local distributor.

RIM BOARD INSTALLATION DETAILS

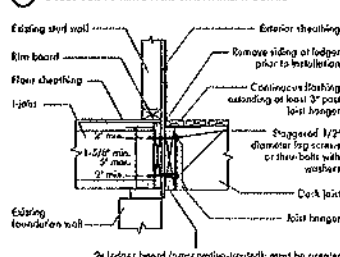
(a) ATTACHMENT DETAILS WHERE RIM BOARDS ABUT



(b) JOE NAIL CONNECTION AT RIM BOARD



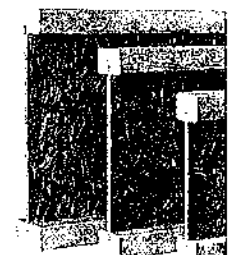
(c) 2x LEDGER TO RIM BOARD ATTACHMENT DETAIL



PRODUCT WARRANTY

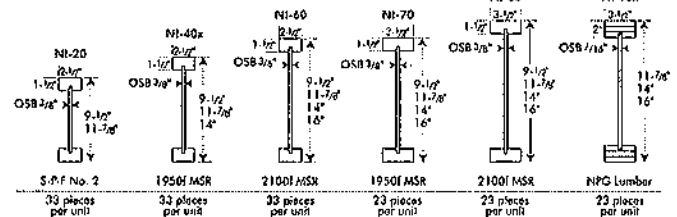
Checklist: Check the warranty for the product, in accordance with the manufacturer's instructions, for the product's performance and durability.

For more information, contact the manufacturer or your local distributor.





Refer to the Installation Guide for additional information.
CCMC EVALUATION REPORT 13092-R



WEB HOLE SPECIFICATIONS

RULES FOR CUTTING HOLES AND DUCT CHASE OPENINGS:

1. The distance between the inside edge of the support and the concrete of any hole or duct chase opening shall be in compliance with the requirements of Table 1 or 2, respectively.
2. Joist top and bottom flanges must NEVER be cut, notched, or otherwise modified.
3. Whenever possible, field-cut holes should be centered 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 a joist web shall equal the clear distance between the flanges of the joist minus 1/8 inch. A minimum of 1/8 inch should always be maintained between the top or bottom of the hole or opening and the adjacent 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 largest 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 conditioned 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 workmanlike 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 as described 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.)											
		2	3	4	5	6	6-1/4	7	8	8-5/8	9	10	10-3/4
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"	6-3"	7-0"	7-5"	...	...	...	...	...	...
	NI-70	2-8"	3-4"	6-3"	8-1"	8-1"	8-1"	...	...	...	...	...	...
	NI-80	2-8"	3-6"	5-0"	6-6"	8-2"	8-8"	...	...	...	...	...	...
11-7/8"	NI-20	0-7"	0-8"	1-0"	2-4"	3-8"	4-0"	5-0"	6-2"	7-9"	...	...	...
	NI-40x	0-7"	0-8"	1-3"	2-8"	4-0"	4-4"	5-8"	7-0"	8-4"	...	...	...
	NI-60	1-3"	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"	10-8"	11-2"	...	...	...
	NI-80	1-6"	1-10"	4-2"	5-4"	7-0"	7-5"	8-8"	10-3"	11-4"	...	...	...
14"	NI-20	0-7"	0-8"	0-8"	1-0"	2-4"	2-9"	3-9"	5-2"	6-0"	8-3"	10-2"	...
	NI-40x	0-7"	0-8"	1-8"	3-0"	4-3"	4-8"	5-8"	7-2"	8-0"	10-4"	11-9"	...
	NI-60	0-8"	1-10"	3-0"	4-5"	5-10"	6-2"	7-3"	8-9"	9-9"	10-4"	12-5"	...
	NI-70	0-10"	2-0"	3-4"	4-9"	6-2"	6-8"	7-6"	9-0"	10-0"	10-8"	12-9"	...
	NI-80	0-7"	0-8"	0-8"	1-0"	2-0"	2-9"	3-9"	5-2"	6-0"	8-3"	10-2"	...
16"	NI-20	0-7"	0-8"	0-8"	1-6"	2-10"	3-2"	4-2"	5-6"	6-4"	7-0"	8-5"	10-2"
	NI-40x	0-7"	1-0"	2-3"	3-4"	4-10"	5-3"	6-3"	7-6"	8-8"	9-2"	10-8"	12-9"
	NI-60	0-7"	1-3"	2-6"	3-10"	5-3"	5-6"	6-6"	8-0"	9-0"	9-5"	11-0"	12-3"
	NI-70	0-7"	0-8"	0-8"	2-0"	3-6"	4-0"	5-0"	6-9"	7-9"	8-4"	10-2"	11-6"
	NI-80	0-7"	0-8"	0-8"	1-6"	2-10"	3-2"	4-2"	5-6"	6-4"	7-0"	8-5"	10-2"

1. Above table may be used for 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.
4. The above table is based on the joist being used of their maximum spans. The minimum distance as given above may be reduced for shorter spans; contact your local distributor.

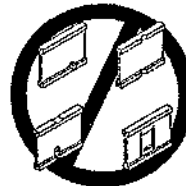
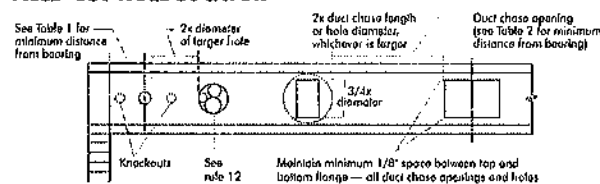
TABLE 2
DUCT CHASE OPENING SIZES AND LOCATIONS

Simple Span Only

Joist Depth	Joist Series	Minimum Distance from Inside Face of Support to Centre of Opening (ft - in.)											
		Duct Chase Length (in.)											
		8	10	12	14	16	18	20	22	24			
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"	8-4"	8-9"			
	NI-70	5-11"	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"	8-7"	9-1"			
	NI-40x	6-8"	7-2"	7-6"	8-1"	8-5"	9-1"	9-5"	10-1"	10-5"			
	NI-60	7-3"	7-8"	8-0"	8-5"	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	7-0"	7-1"	8-0"	8-5"	8-10"	9-4"	9-8"	10-2"	10-5"			
14"	NI-20	8-1"	8-7"	9-0"	9-6"	10-1"	10-7"	11-2"	12-0"	12-8"			
	NI-40x	8-9"	9-3"	9-8"	10-1"	10-6"	11-1"	11-6"	12-3"	12-8"			
	NI-60	8-7"	9-1"	9-5"	9-10"	10-4"	10-8"	11-2"	11-7"	12-3"			
	NI-70	9-0"	9-3"	9-9"	10-1"	10-7"	11-1"	11-6"	12-1"	12-6"			
	NI-80	9-4"	9-9"	10-3"	10-7"	11-1"	11-7"	12-1"	12-7"	13-2"			
16"	NI-20	10-3"	10-8"	11-2"	11-6"	12-1"	12-6"	13-2"	14-1"	14-10"			
	NI-40x	10-1"	10-5"	11-0"	11-4"	11-10"	12-3"	12-8"	13-3"	14-0"			
	NI-60	10-4"	10-9"	11-3"	11-9"	12-1"	12-7"	13-1"	13-8"	14-4"			
	NI-70	11-1"	11-5"	11-10"	12-4"	12-10"	13-2"	13-9"	14-4"	15-2"			
	NI-80	11-1"	11-5"	11-10"	12-4"	12-10"	13-2"	13-9"	14-4"	15-2"			

1. Above table may be used for 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 simply span joist 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 joist being used of 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-cored 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 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 joists until fully fastened and braced, or serious injuries can result.



Never stack building materials over unshored joists. Once shored, do not over-stress joists with concentrated loads from building materials.

WARNING: 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:

1. Brace and nail each joist as it is installed, using hangers, blocking panels, skin board, and/or cross-bracing at joist ends. When 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.
2. When the building is completed, the floor sheathing will provide lateral support for the top flanges of the joists. Until this sheathing is applied, temporary bracing, often called struts, or temporary sheathing must be applied to prevent joist rollover or buckling.
 - * Temporary bracing or struts must be 1-1/2 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" x 1/2" nails fastened to the top surface of each joist. Nail the bracing to a lateral restraint at the end of each bay. Top ends of adjoining bracing over or load two joists.
 - * Or, sheathing (temporary or permanent) can be nailed to the top flange of the first 4 feet of joists at the end of the bay.
3. For conditioned joists, brace top and bottom flanges, and brace ends with closure panels, rim board, or cross-bracing.
4. Install and fully nail permanent sheathing to each joist before placing loads on the floor system. Then, stack building materials over beams or walls only.
5. Never install a damaged joist.

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

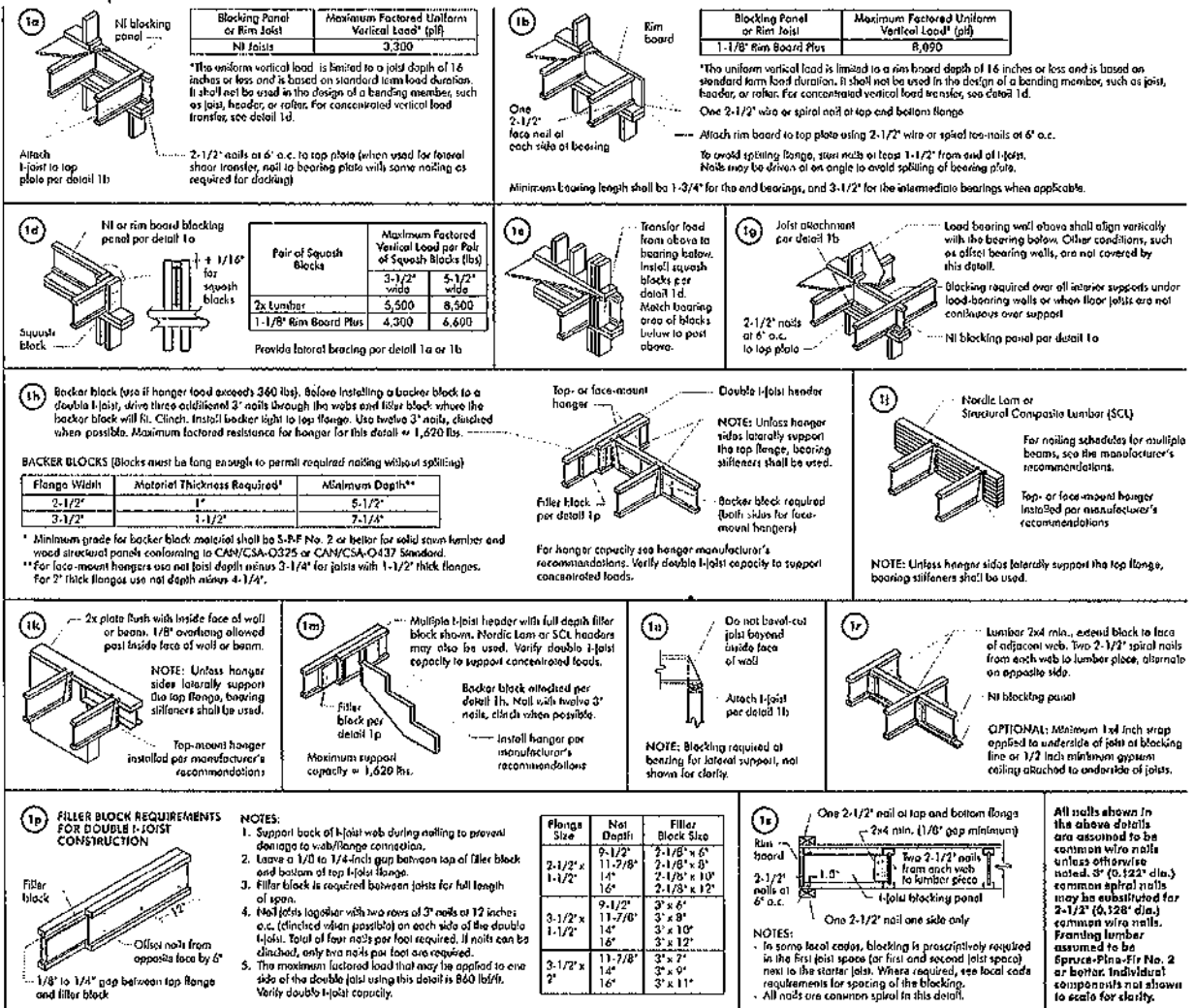
The construction details for residential designs are prone to changes.

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)



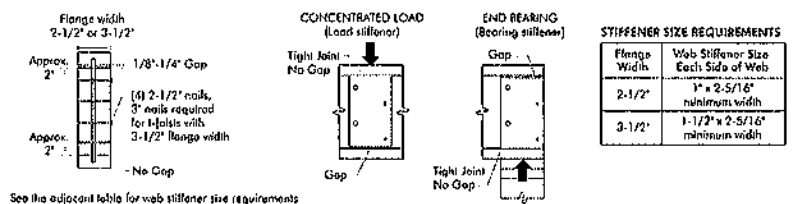
WEB STIFFENERS

RECOMMENDATIONS:

- A bearing stiffener is required in all engineered applications with factored reactions greater than shown in the I-Joint Properties table found in the I-Joint Construction Guide (C101). The gap between the stiffener and the flange is at the top.
- A bearing stiffener is required when the I-joint 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.

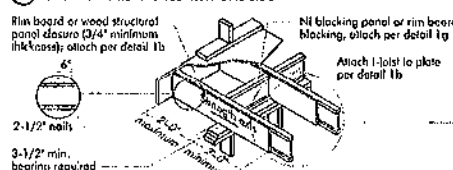
FIGURE 2

WEB STIFFENER INSTALLATION DETAILS

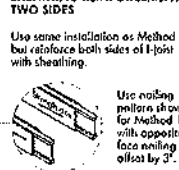


CANTILEVER DETAILS FOR VERTICAL BUILDING OFFSET

Method 1 — SHEATHING REINFORCEMENT ONE SIDE



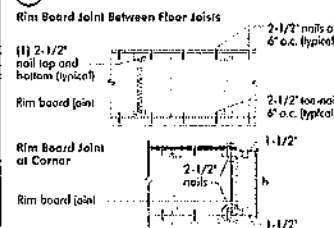
Method 2 — SHEATHING REINFORCEMENT TWO SIDES



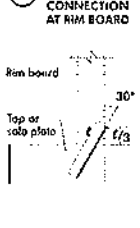
NOTE: Condition coldwood plywood sheathing or equivalent (minimum thickness 3/4") required on sides of joist. Depth shall match toe full height of the joist. Nail with 2-1/2" nails at 6" o.c., top and bottom flange. Install with face grain horizontal. Attach I-joint to plate at all supports per detail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

RIM BOARD INSTALLATION DETAILS

8a ATTACHMENT DETAILS WHERE RIM BOARDS ABUT



8b TOP-NAIL CONNECTION AT RIM BOARD



The construction details for residential designs are prone to changes.

Details released after September 2013 supersede N-303

Installation must comply with latest documentation on I-Joint 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.

