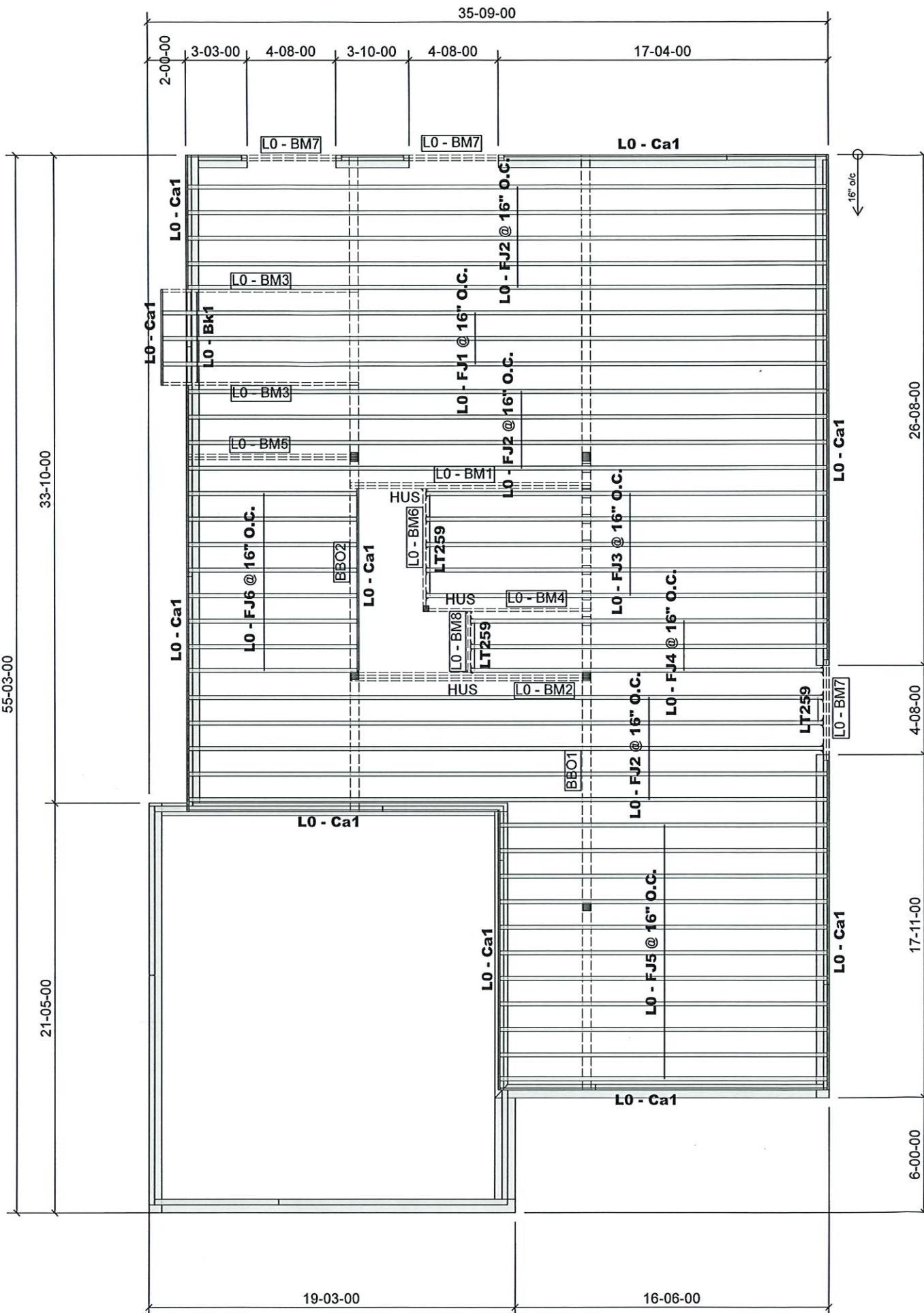




City of Ottawa
Building Services Branch

SEP 28 2023

Building Code Reviewed

[Signature]
Signature

GLUED AND NAILED

LEVEL AND FLOOR CONTAINER NOTES	
Current Date:	9/8/2023
File Name:	Belfast C-M 4-5 Bed EXT.mmdl
Level Name:	1st Floor
Building Code - Design Methodology:	NBCC 2015
Floor Container:	FC1
Floor Area Loading is:	40 Live Load & 15 Dead Load
Maximum Allowed Deflection	L/480 Live Load & L/240 Total Load

Products				
PlotID	Length	Product	Plies	Net Qty
L0 - FJ1 @ 16" O.C.	36-00-00	9 1/2" NI-20	1	3
L0 - FJ2 @ 16" O.C.	34-00-00	9 1/2" NI-20	1	14
L0 - FJ3 @ 16" O.C.	22-00-00	9 1/2" NI-20	1	5
L0 - FJ4 @ 16" O.C.	19-00-00	9 1/2" NI-20	1	3
L0 - FJ5 @ 16" O.C.	18-00-00	9 1/2" NI-20	1	11
L0 - FJ6 @ 16" O.C.	9-00-00	9 1/2" NI-20	1	8
L0 - BM1	13-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	2
L0 - BM2	13-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	3	3
L0 - BM3	11-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	2
L0 - BM4	9-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	1
L0 - BM5	9-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	2
L0 - BM6	7-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	1
L0 - BM7	6-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	6
L0 - BM8	4-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	1
L0 - Ca1	12-00-00	1 1/8" x 9 1/2" APA Rim Board	1	14
L0 - Bk1	5-00-00	9 1/2" NI-20	1	1

Accessories				
PlotID	Length	Product	Plies	Net Qty
		3/4" Plywood or OSB (23/32" APA Rated Sheathing 48/24 Exposure 1)	1	45

Connector Summary				
Qty	Manuf	Product	Skew	Supported Mt
3	Simpson	HUS18110	-	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL
12	Simpson	LT259	-	9 1/2" NI-20

THIS DESIGN COMPLIES WITH:

- PART 4 OR 9 OF OBC 2012 Reg. 332/12 (Jan 2020 Amendment)
- NORDIC LAM CCMC: 13216-R
- NORDIC JOISTS CCMC: 13032-R
- WEST FRASER CCMC: 12904

(REFER TO INDIVIDUAL FLOOR DRAWINGS FOR SPECIFIC LOADS & SPACING)

FLOOR NOTES:

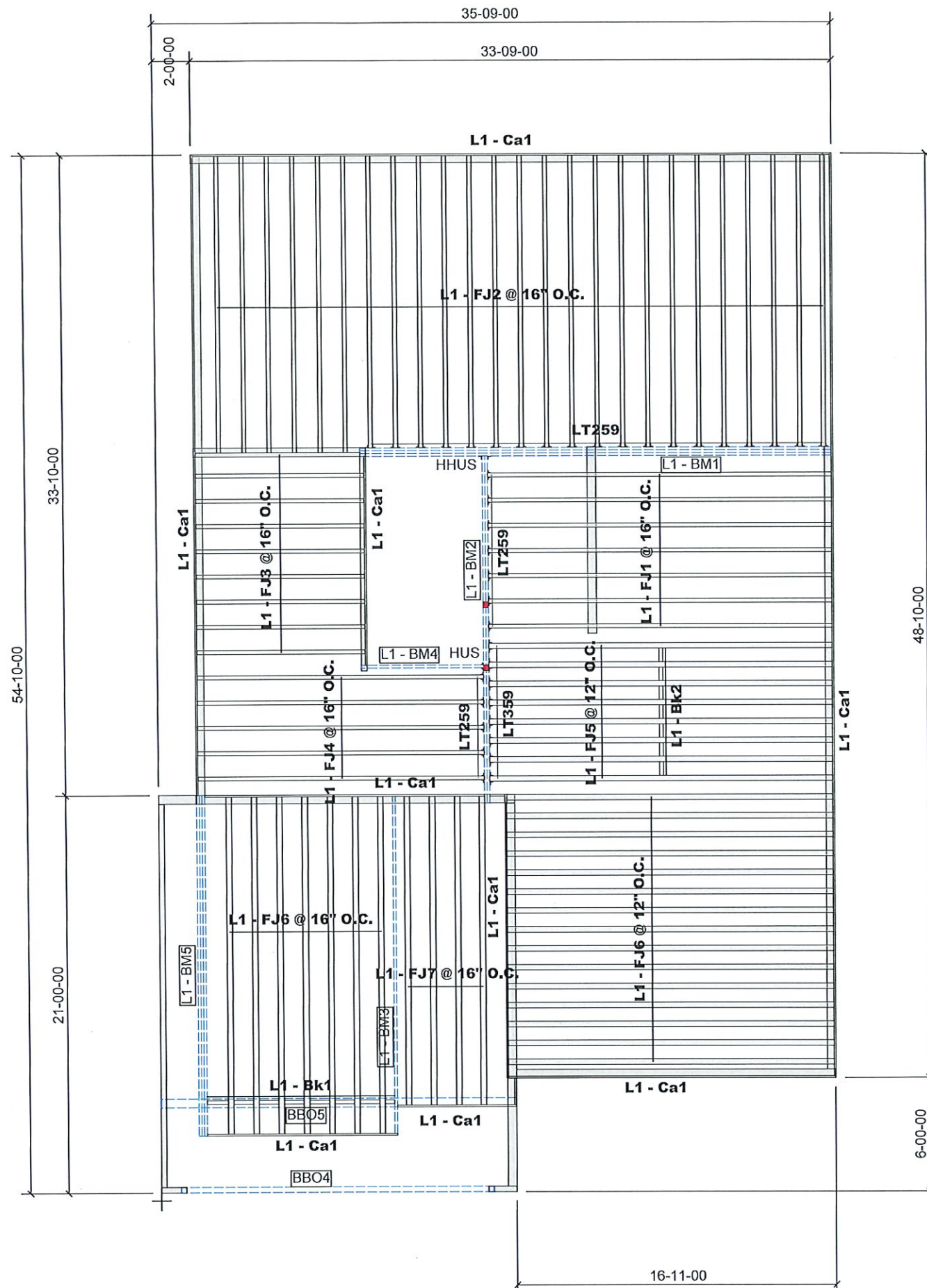
- FLOOR JOIST SYSTEMS ABOVE THE GARAGE HAS BEEN DESIGNED WITHOUT A DIRECTLY APPLIED CEILING. USE APPLICABLE BLOCKING OR STRAPPING WHERE REQUIRED AS INDICATED ON THE FRAMING PLAN.
- BLOCKING MATERIAL WILL BE SUPPLIED AND INDICATED AS "BLOCKING". NO LONGER ONLY 12' LENGTHS.



GRANDOR LUMBER INC
ALPA LUMBER GROUP

JOB:
PHOENIX HOMES
MODEL:BELFAST
ELEVATION C/M EXT
4 & 5 BEDROOMS
1ST FLOOR 1 OF 2

DATE: 2023-09-08



GLUED AND NAILED

LEVEL AND FLOOR CONTAINER NOTES	
Current Date:	9/6/2023
File Name:	Belfast C-M 4-5 Bed EXT.mmdl
Level Name:	2nd Floor
Building Code - Design Methodology:	NBCC 2015
Floor Container:	FC2
Floor Area Loading is:	40 Live Load & 15 Dead Load
Maximum Allowed Deflection	L/480 Live Load & L/240 Total Load

Products				
PlotID	Length	Product	Plies	Net Qty
L1 - FJ1 @ 16" O.C.	19-00-00	9 1/2" NI-20	1	7
L1 - FJ2 @ 16" O.C.	16-00-00	9 1/2" NI-20	1	25
L1 - FJ3 @ 16" O.C.	9-00-00	9 1/2" NI-20	1	9
L1 - FJ4 @ 16" O.C.	16-00-00	9 1/2" NI-40x	1	5
L1 - FJ5 @ 12" O.C.	19-00-00	9 1/2" NI-80	1	8
L1 - FJ6 @ 12" O.C.	18-00-00	9 1/2" NI-80	1	15
L1 - FJ6 @ 16" O.C.	18-00-00	9 1/2" NI-80	1	7
L1 - FJ7 @ 16" O.C.	17-00-00	9 1/2" NI-80	1	4
L1 - BM1	25-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	3	3
L1 - BM2	19-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	2	2
L1 - BM3	18-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	1
L1 - BM4	7-00-00	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL	1	1
L1 - BM5	18-00-00	1 3/4" x 14" (2.0E 3100) WestFraser LVL	3	3
L1 - Ca1	12-00-00	1 1/8" x 9 1/2" APA Rim Board	1	17
L1 - Bk1	8-00-00	9 1/2" NI-20	1	1
L1 - Bk2	5-00-00	9 1/2" NI-20	1	1

Accessories				
PlotID	Length	Product	Plies	Net Qty
3/4" Plywood or OSB (23/32" APA Rated Sheathing 48/24 Exposure 1)			1	53

Connector Summary				
Qty	Manuf	Product	Skew	Supported Mtl
8	Simpson	LT359	-	9 1/2" NI-80
1	Simpson	HHUS410	-	2- 1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL
1	Simpson	HUS18110	-	1 3/4" x 9 1/2" (2.0E 3100) WestFraser LVL
31	Simpson	LT259	-	9 1/2" NI-20

THIS DESIGN COMPLIES WITH:

- PART 4 OR 9 OF OBC 2012 Reg. 332/12 (Jan 2020 Amendment)
- NORDIC LAM CCMC: 13216-R
- NORDIC JOISTS CCMC: 13032-R
- WEST FRASER CCMC: 12904

(REFER TO INDIVIDUAL FLOOR DRAWINGS FOR SPECIFIC LOADS & SPACING)

FLOOR NOTES:

- FLOOR JOIST SYSTEMS ABOVE THE GARAGE HAS BEEN DESIGNED WITHOUT A DIRECTLY APPLIED CEILING. USE APPLICABLE BLOCKING OR STRAPPING WHERE REQUIRED AS INDICATED ON THE FRAMING PLAN.
- BLOCKING MATERIAL WILL BE SUPPLIED AND INDICATED AS "BLOCKING". NO LONGER ONLY 12' LENGTHS.

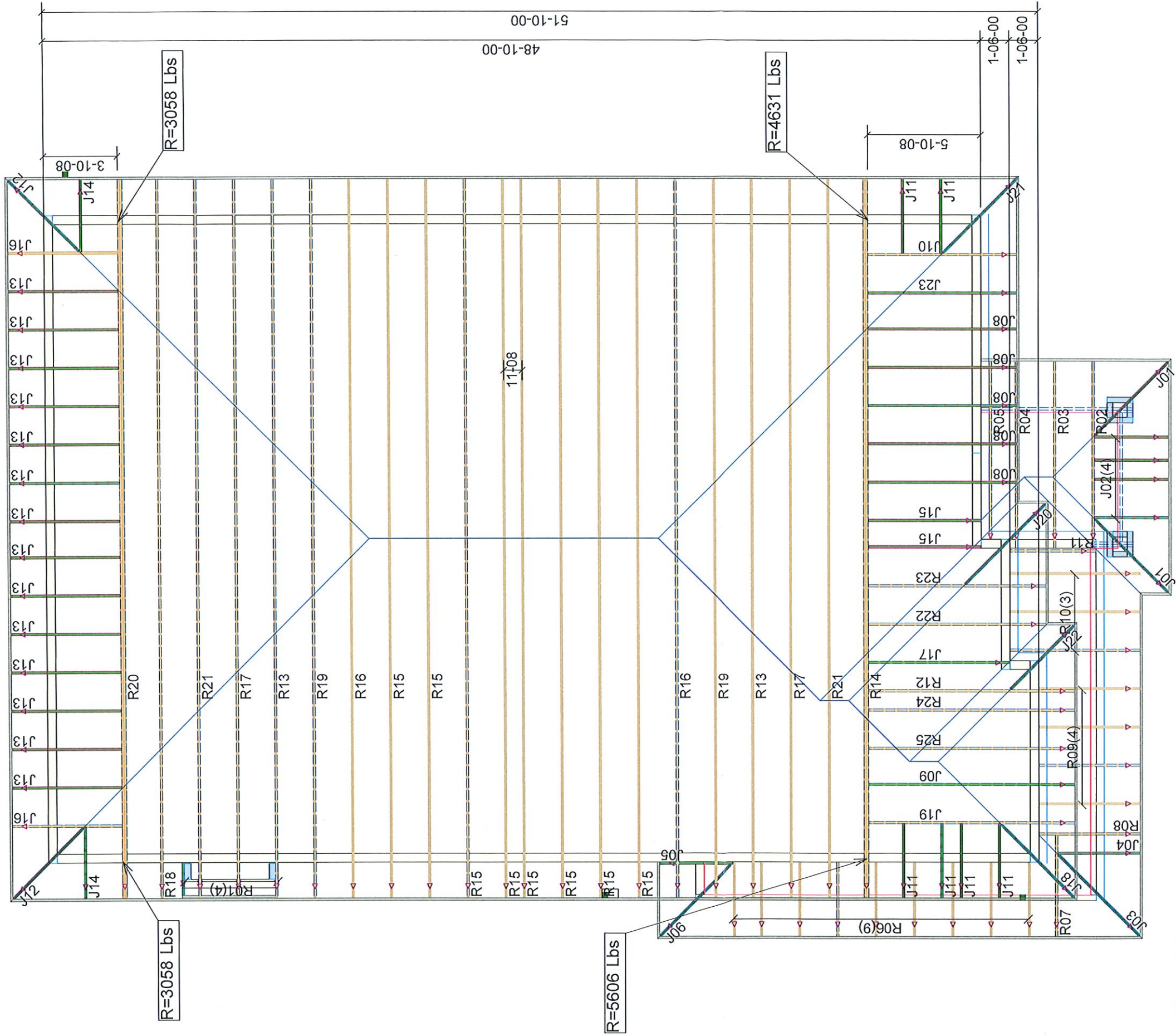


GRANDOR LUMBER INC
ALPA LUMBER GROUP

JOB:
PHOENIX HOMES
MODEL:BELFAST
ELEVATION C/M EXT
4 & 5 BEDROOMS
2nd FLOOR 2 OF 2

DATE: 2023-09-06





City of Ottawa
Building Services Branch
SEP 28 2023
Building Code Reviewed
[Signature]

City of Ottawa
SEP 15 2023
BCSB
Centrepointe Dr.

TYPICAL OTTAWA DESIGN LOADS

Member	Load Type	PT 9	PT 4
Top Chord	Snow	37.1	50
	Dead	3	5-10
	Live	0	10
Bot Chord	Dead	7	7
	Live		

TYPICAL SPACING = 24.0 IN C/C

THIS DESIGN COMPLIES WITH:

- PART 4 OR 9 OF OBC 2012 Reg. 332/12
 - CSA 086-09
 - CCMC ACCEPTANCE 11996-L, 0319-L, 13270-L
 - TPIC 2011
- (REFER TO INDIVIDUAL TRUSS DRAWINGS FOR SPECIFIC LOADS & SPACING)

HURRICANE AND SEISMIC TIES:

- ANY TIES SPECIFIED ON THIS LAYOUT FOR UPLIFT OR SEISMIC CONNECTIONS MUST BE REVIEWED AND APPROVED BY THE BUILDING DESIGNER/ENGINEER, AS STATED IN THE TPIC 2011. THE TRANSFER OF THESE LOADS TO THE ENTIRE STRUCTURE BELOW HAS NOT BEEN ANALYZED.

JOB: PHOENIX HOMES
BELFAST
Elev-M w/ 3' Extension
PBELM-2



DATE: 2/25/2022



Mechanical Design Report Low rise residential

Location of Installation	Address House Builder PHOENIX
	Application Number House Model (if applicable) BELFAST 5BED
Installing Contractor	Name HARDING MECHANICAL
	Address 200 NIPISSING COURT
	City KANATA
	Postal Code K2T 0N7
	Telephone Number 343-655-1195
	Fax Number

City of Ottawa
Building Services Branch

SEP 28 2023

Building Code Reviewed
Signature

SYSTEM DESIGN PARAMETERS

Combustion Appliances 9.32.3.1.(1)	Heating System
a) ☒ Direct vent (sealed combustion) only	☒ Forced Air
b) ☐ Positive venting induced draft (except fireplaces)	☐ Non Forced Air
c) ☐ Natural draft, B-vent or induced draft fireplace	☐ Electric Space Heat
d) ☐ Solid Fuel (including fireplaces)	☐ Radiant Floor Heat (attach pipe details)
e) ☐ No Combustion Appliances	☐ Geothermal (attach loop, pipe & well details)
	☐ High Velocity Residential (attach duct details)
	☐ Other:

House Type 9.32.3.1.(2)	System Design Option
☒ I Type a) or b) appliances only, no solid fuel	☐ Exhaust Only/Forced Air System
☐ II Type I except with solid fuel (including fireplace)	☐ HRV with Exhaust Ducts/Forced Air System
☐ III Any Type c) appliance = Part 6 Design	☒ HRV Simplified Connection to Forced Air System
☐ IV Electric space heat	☐ HRV - Full Ducting/Not Coupled to Forced Air System
☐ Other: No forced air = Option 4	☐ Part 6 Design
	☐ Other:

EQUIPMENT DESIGN REQUIREMENTS

Total Ventilation Capacity 9.32.3.3.(1)	TOTAL	
Master Bedroom	1 ☒ x 10 L/s =	10 L/s
Unfinished Basement	1 ☒ x 10 L/s =	10
Other Habitable Rooms	13 ☒ x 5 L/s =	65
Principal Ventilation Capacity 9.32.3.4.(1)		85 I.V.C.
Master Bedroom	1 ☒ x 15 L/s =	15 L/s
Other Bedrooms	4 ☒ x 7.5 L/s =	30
		45 P.V.C.
Required Supplemental Ventilation Capacity (I.V.C. less P.V.C.) =		40

Furnace size: KJ or 60,000 BTU

Air conditioner size: KJ or 3.0 TON BTU or 3.0 TON Tonnes (If provided / applicable)

Heating / Cooling Equipment sized according to heat loss/gain calculations of CAN/CSA F280-12: Yes ☒ No ☐

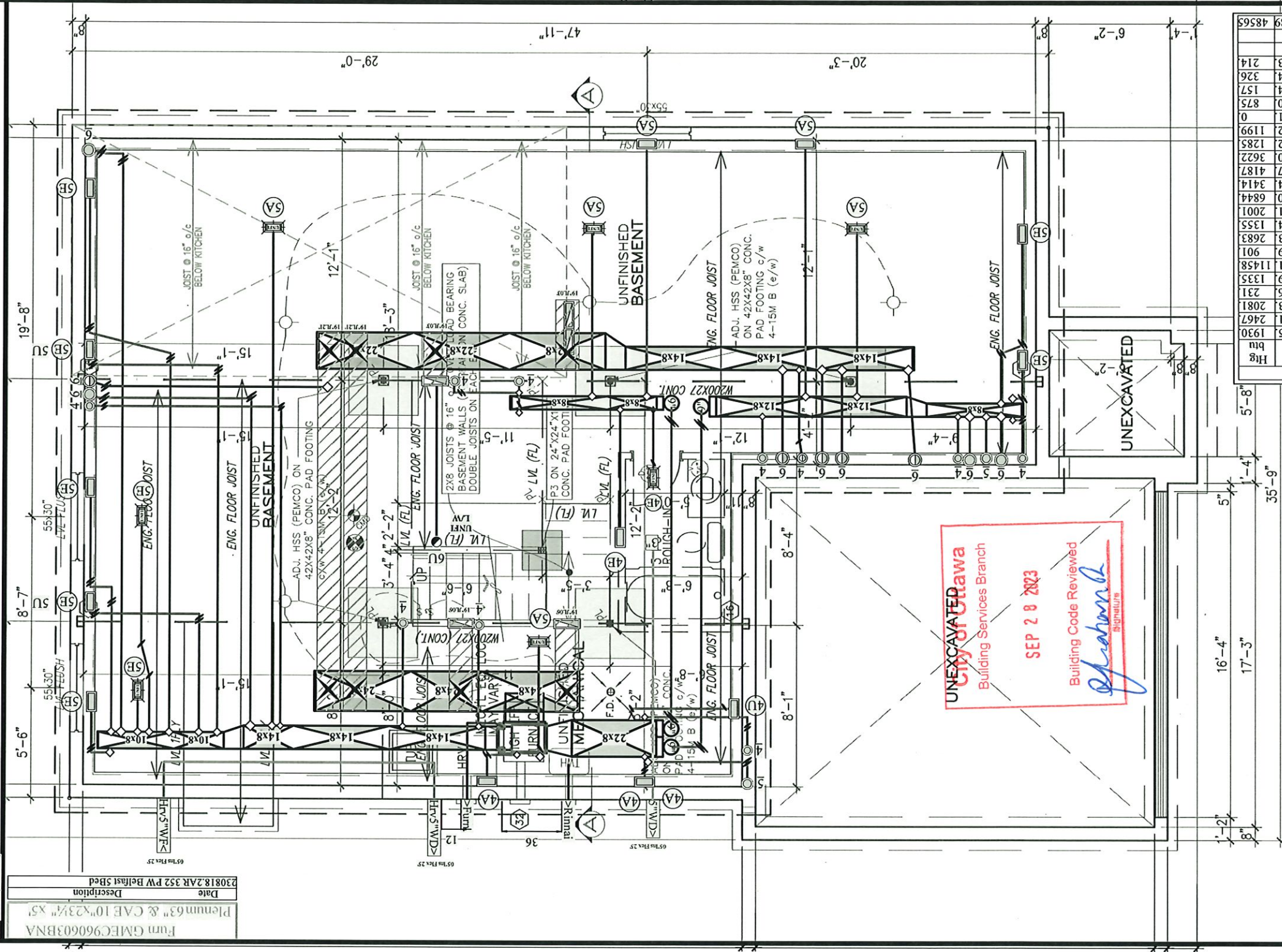
Geothermal Equipment designed according to CAN/CSA-C448.2: Yes ☐ No ☒

Hydronic Equipment designed according to CAN/CSA-B214: Yes ☐ No ☒

Duct (and pipe) schematic attached including sizes, runs and material used: Yes ☒ No ☐

VENTILATION EQUIPMENT						
Heat Recovery Ventilator						
Model: CLEAN COMFORT VH30100RNC HRV						
85	L/s High	42.5	L/s Low	60	% Sensible Efficiency @ -25°C	
Proposed Exhaust Fans						
	Location	Model	L/s	Sones	Principal or Supplemental	
1	PDRM	DX50L	25	2.5	PRINCIPAL	
2	ENSUITE	EC50	25	3.	SUPPLEMENTAL	
3	BATH	EC50	25	3.	SUPPLEMENTAL	
4	BATH 2	EC50	25	3.	SUPPLEMENTAL	
EQUIPMENT EFFICIENCIES (Please also refer to Energy Efficiency Design Summary)						
Heating system: GOODMAN GM9C960603BNA						
Cooling system (if applicable): GOODMAN GSXN303613.4 SEER2						
Water heater:						
HRV: % sensible efficiency at 0 degrees: 75						
% sensible efficiency at -25 degrees: 60						
DESIGNER CERTIFICATION						
I hereby certify that this ventilation system has been designed in accordance with the 2012 Ontario Building Code.						
Name: LINDA MCPARLAN		Company Name: HARDING MECHANICAL				
Signature: 		Date: SEPT 14/23		BCIN 24379	HRAI # 6080	





BELFAST M - 2022

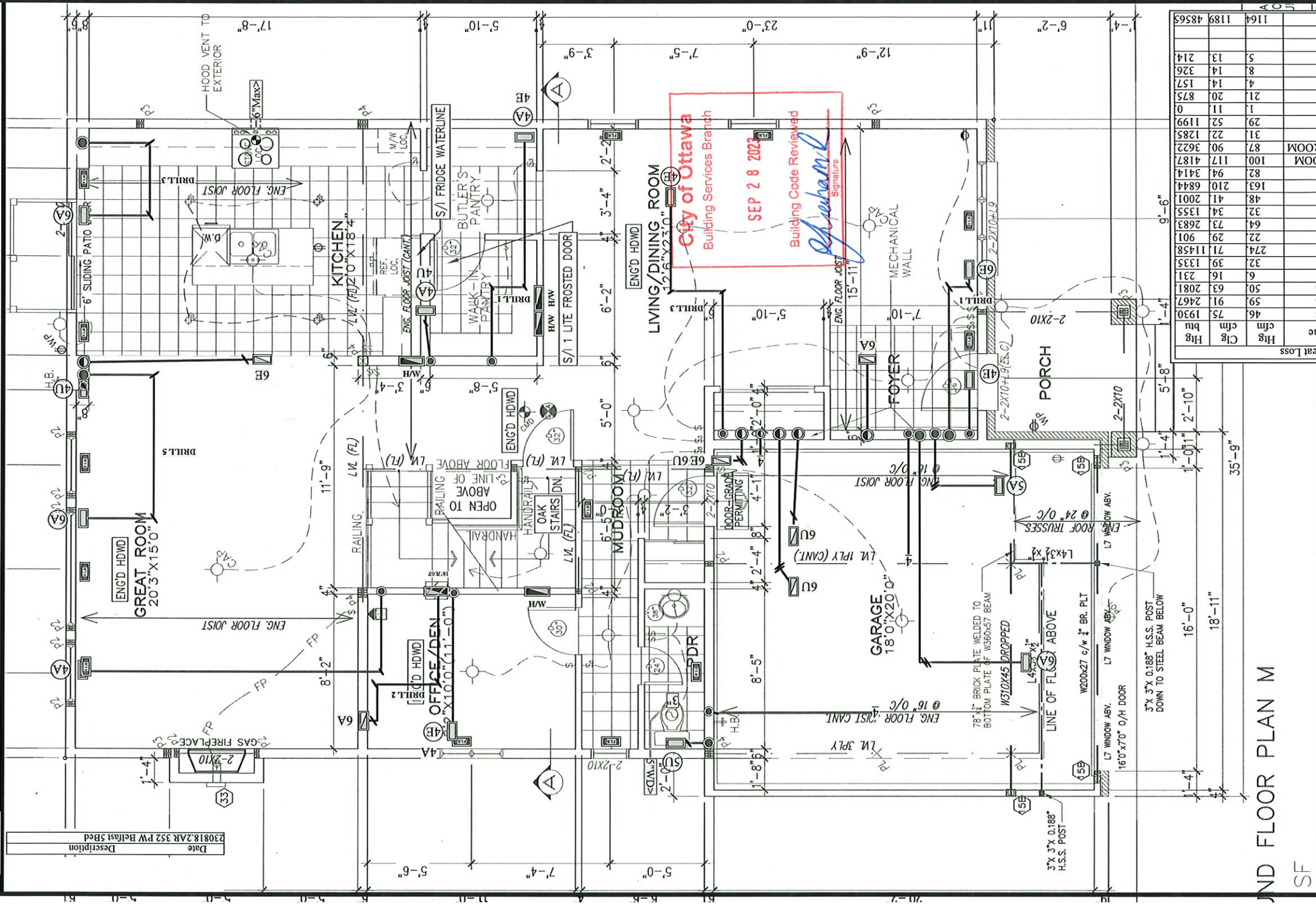
SITE: **PATHWAYS**

LOT NUMBER: **352**

[illegible]

LOT NUMBER:	3352	1	ISSUED FOR PR
CIVIC ADDRESS:		No.	Description

DEC-2019	SP	D.C.L. - A-8
	Date	By



2ND FLOOR PLAN M

SF



BELFAST M - 2022

SITE: PATHWAYS

LOT NUMBER:

352

CIVIC ADDRESS:
3521 WILKINSON AVE N.E.

No.	Description
6	ISSUED FOR
5	BEP BLACK
4	B1 BLACKLIN
3	KITCHEN LIG
2	STRUCTURAL
1	ISSUED FOR PRICING ONLY

Room Name	Htg	Cfg	Htg
2-BEDROOM 3	46	cm	1930
2-BEDROOM 4	59	cm	2467
2-BEDROOM 5	50	cm	2081
2-HALL	6	cm	231
2-LOFT	32	cm	1335
BASEMENT	274	cm	11458
BATH	22	cm	901
BEDROOM 2	64	cm	2683
ENSUITE	32	cm	1355
FOYER	48	cm	2001
GREATROOM	163	cm	6844
KITCHEN	82	cm	3414
LIV/DININGROOM	100	cm	4187
MASTERBEDROOM	87	cm	3622
OFFICE	29	cm	1199
PANTRY	1	cm	0
PDRM	21	cm	875
STAIRS	4	cm	157
W.I.C.	8	cm	326
W.I.C. 2	5	cm	214

Heat Loss

Under Modification
24579

No. Description

ISSUED FOR PRICING ONLY

DEC-2019

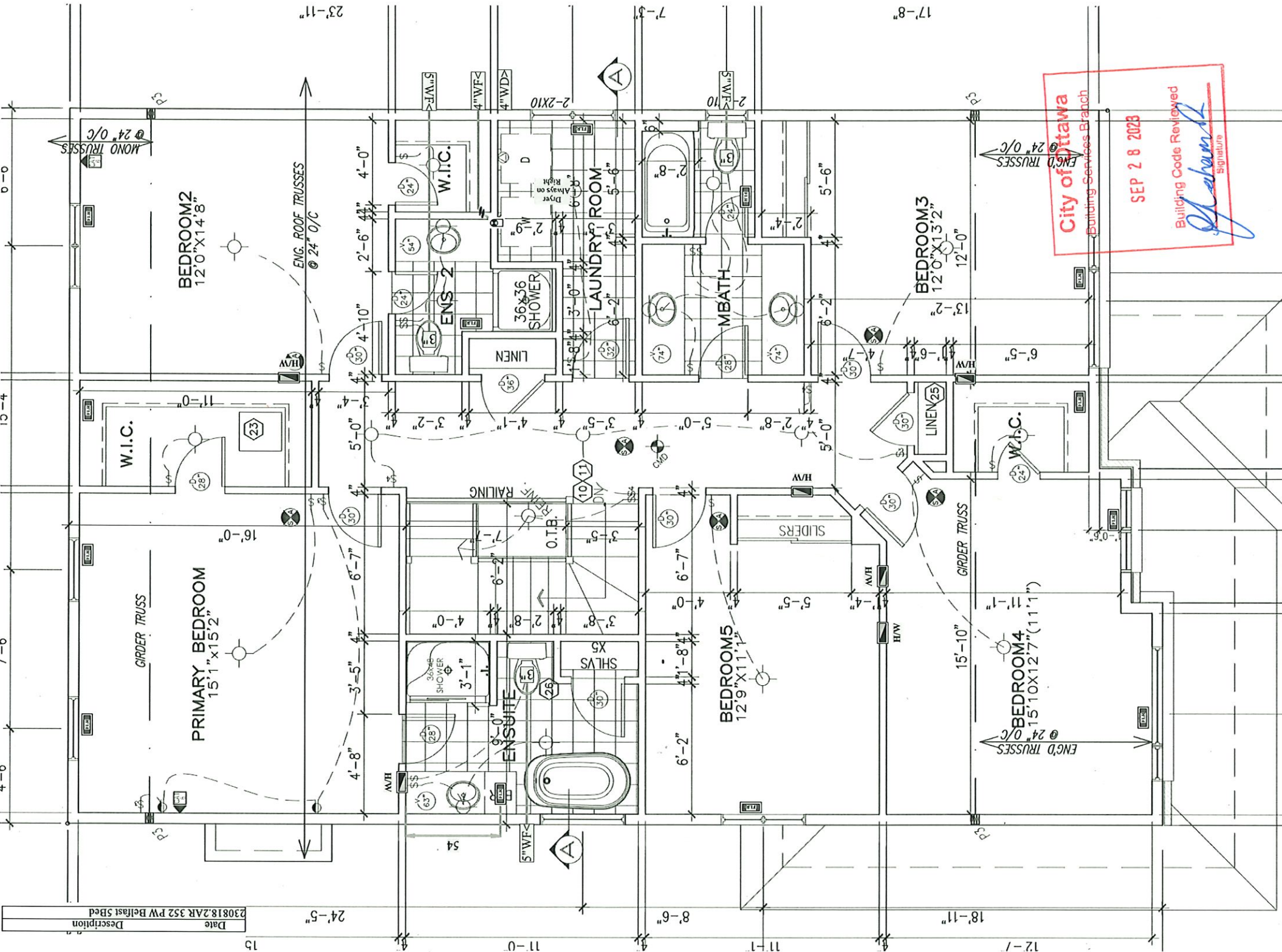
SP

D.C.L. - A-8

By:

CM

Date	Description
230818.2AR 352 PW Belfast 5bed	



2ND FLOOR PLAN M ROOM

Room Name	Htg cfm	Clg cfm	Htg btu
2-BEDROOM 3	46	75	1930
2-BEDROOM 4	59	91	2467
2-BEDROOM 5	50	63	2081
2-HALL	6	16	231
2-LOFT	32	39	1335
BASEMENT	274	71	11458
BATH	22	29	901
BEDROOM 2	64	73	2683
ENSUITE	32	34	1355
FOYER	48	41	2001
GREATROOM	163	210	6844
KITCHEN	82	94	3414
LIV/DININGROOM	100	117	4187
MASTERBEDROOM	87	90	3622
MUD	31	22	1285
OFFICE	29	52	1199
PANTRY	1	11	0
PDRM	21	20	875
STAIRS	4	14	157
W.I.C.	8	14	326
W.I.C. 2	5	13	214

City of Ottawa
Building Services Branch
SEP 28 2023
Building Code Reviewed
Signature

ISSUED FOR

6

BEP BLACK

5

B1 BLACK

4

KITCHEN L

3

BELFAST M - 2022

SITE: PATHWAYS



1.64" = 1"

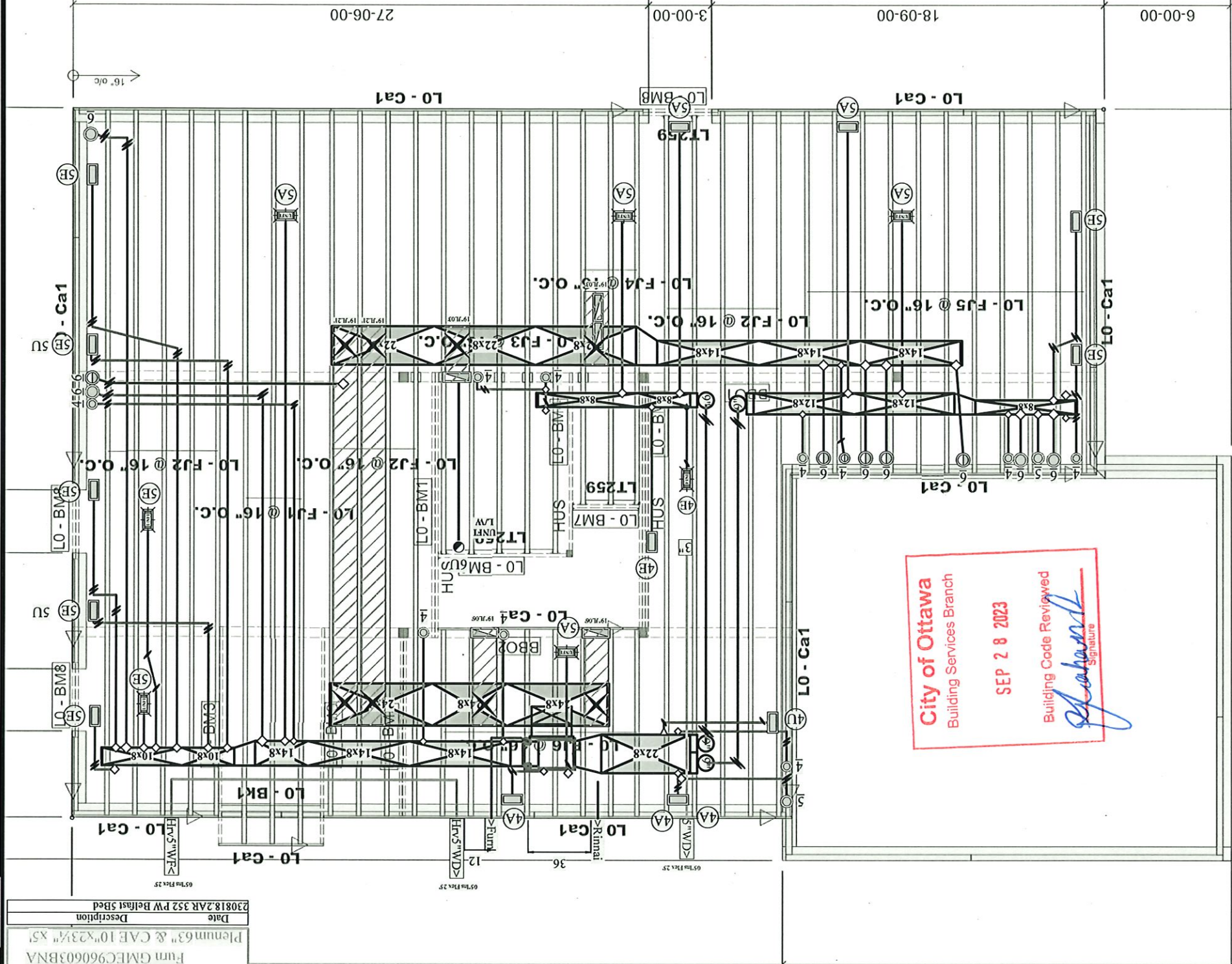
Furn GMEC960603BNA

Pleum63" & CAB10"x23 3/4" x51

230818.2AR 352 PW Belfast 5Bed

Date

Description



City of Ottawa
Building Services Branch
SEP 28 2023
Building Code Reviewed
Signature

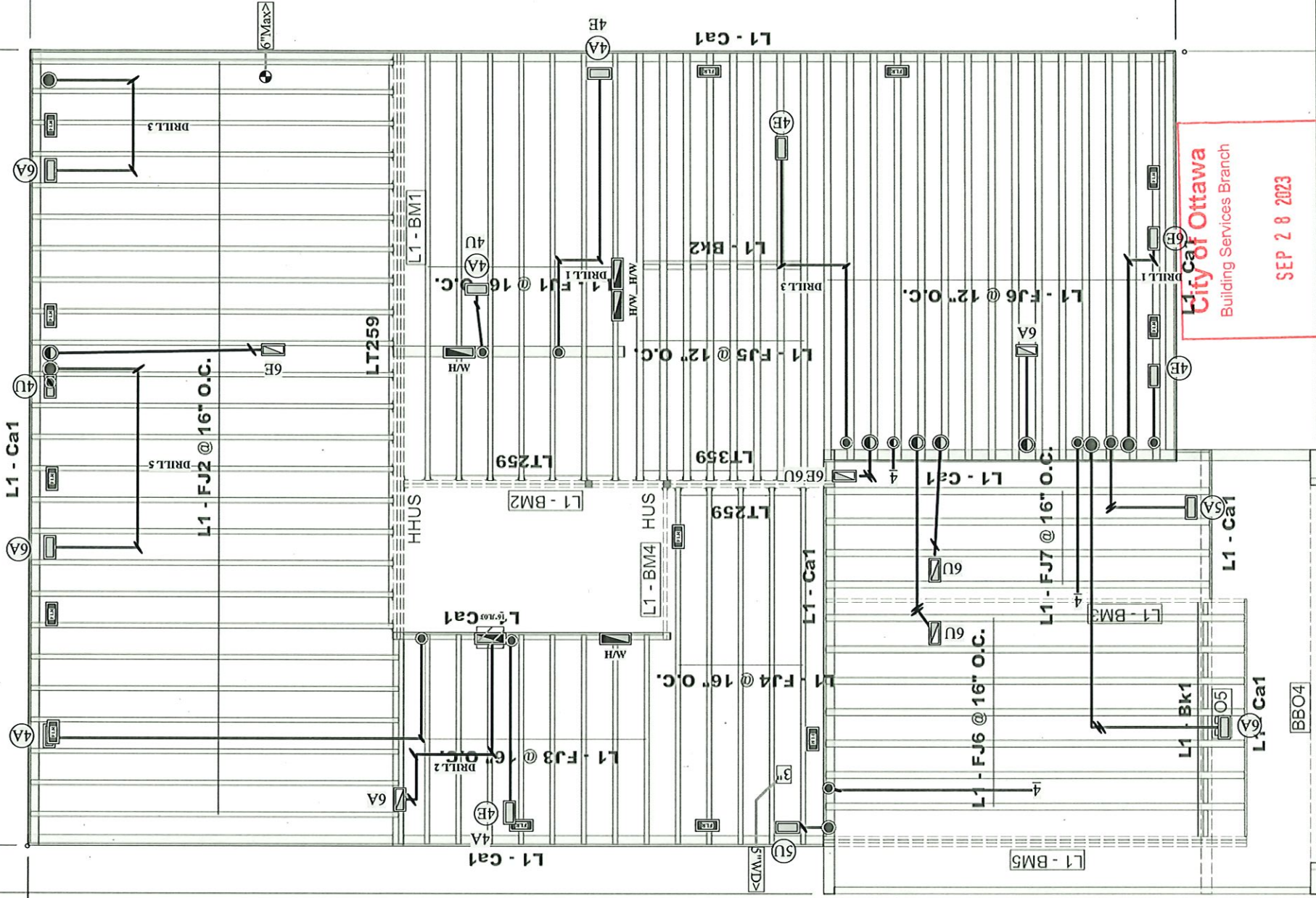
Room Name		Htg	Clg	Htg
		cm	cm	blu
2-BEDROOM 3	46	75	1930	
2-BEDROOM 4	59	91	2467	
2-BEDROOM 5	50	63	2081	
2-HALL	6	16	231	
2-LOFT	32	39	1335	
BASEMENT	274	71	11458	
BATH	22	29	901	
BEDROOM 2	64	73	2683	
ENSUITE	32	34	1355	
FOYER	48	41	2001	
GREATROOM	163	210	6844	
KITCHEN	82	94	3414	
LIV/DININGROOM	100	117	4187	
MASTERBEDROOM	87	90	3622	
MUD	31	22	1285	
OFFICE	29	52	1199	
PANTRY	1	11	0	
PDRM	21	20	875	
STAIRS	4	14	326	
W.C.	8	14	326	
W.C. 2	5	13	214	
	1164	1189	48569	

1.64" = 1"

24379

1.64" = 1"

Date	Description
230818.2AR 352 PW Belfast 5Bed	



City of Ottawa
Building Services Branch
SEP 28 2023
Building Code Reviewed
Signature

Room Name		Htg	Cfg	Htg
Heat Loss		cfm	btu	
2-BEDROOM 3		46	75	1930
2-BEDROOM 4		59	91	2467
2-BEDROOM 5		50	63	2081
2-HALL		6	16	231
2-LOFT		32	39	1335
BASEMENT		274	71	11458
BATH		22	29	901
BEDROOM 2		64	73	2683
ENSUITE		32	34	1355
FOYER		48	41	2001
GREATROOM		163	210	6844
KITCHEN		82	94	3414
LIV/DININGROOM		100	117	4187
MASTERBEDROOM		87	90	3622
MUD		31	22	1285
OFFICE		29	52	1199
PANTRY		1	11	0
PDRM		21	20	875
STAIRS		4	14	326
W.C.		8	14	326
W.C. 2		5	13	214
		1164	1189	48565