

STRIP FOOTINGS - FOR SINGLES & SEMIS UP TO 2 STOREYS

8" OR 10" FOUNDATION WALLS WITH 2"x8" / 2"x10" FLOOR JOISTS
20"x6" CONCRETE STRIP FOOTINGS BELOW FOUNDATION WALLS.
24"x8" CONCRETE STRIP FOOTINGS BELOW PARTY WALLS.
FOUNDATION WALLS WITH ENGINEERED JOISTS OVER 16' SPANS
24"x8" CONCRETE STRIP FOOTINGS BELOW FOUNDATION WALLS.
FOOTINGS ON ENGINEERED FILL
24"x8" CONCRETE STRIP FOOTINGS WITH REINFORCING.
BELOW EXTERIOR WALLS.
30"x8" CONCRETE STRIP FOOTINGS WITH REINFORCING.
BELOW PARTY WALLS.
(REFER TO ENGINEER FILL FOOTING DETAIL)

ASSUME THE LARGER FOOTING SIZE WHEN TWO CONDITIONS APPLY

ASSUMED 120 KPa (18 p.s.i.) SOIL BEARING CAPACITY FOR SINGLES OR 90 KPa FOR ENGINEERED FILL, TO BE VERIFIED ON SITE.

PAD FOOTINGS

120 KPa NATIVE SOIL 90 KPa ENGINEERED FILL SOIL

F1 = 42"x42"x18" CONCRETE PAD F1 = 48"x48"x20" CONCRETE PAD
F2 = 36"x36"x16" CONCRETE PAD F2 = 40"x40"x16" CONCRETE PAD
F3 = 30"x30"x12" CONCRETE PAD F3 = 34"x34"x14" CONCRETE PAD
F4 = 24"x24"x12" CONCRETE PAD F4 = 28"x28"x12" CONCRETE PAD
F5 = 16"x16"x8" CONCRETE PAD F5 = 18"x18"x8" CONCRETE PAD
(REFER TO FLOOR PLAN FOR UNUSUAL SIZE PADS NOT ON CHART.)

VENEER CUT

WHEN VENEER CUT IS GREATER THAN 26", A 10" POURED CONCRETE FOUNDATION WALL IS REQUIRED.

EXPOSED CONCRETE (FLATWORK)

ALL GARAGE SLABS, PORCH SLABS, STAIRS (EXPOSED CONC. FLAT WORK) TO BE 32 MPa. WITH 5-8% AIR ENTRAINMENT.

BRICK VENEER LINTELS (WL)

WL1 = 3-1/2" x 3-1/2" x 1/4" (90x90x6.0L) + 2-2"x8" SPR. No.2
WL2 = 4" x 3-1/2" x 5/16" (100x90x8.0L) + 2-2"x8" SPR. No.2
WL3 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 2-2"x10" SPR. No.2
WL4 = 6" x 3-1/2" x 3/8" (150x90x10.0L) + 2-2"x12" SPR. No.2
WL5 = 6" x 4" x 3/8" (150x100x10.0L) + 2-2"x12" SPR. No.2
WL6 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 2-2"x12" SPR. No.2
WL7 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 3-2"x12" SPR. No.2
WL8 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 3-2"x10" SPR. No.2
WL9 = 6" x 4" x 3/8" (150x100x10.0L) + 3-2"x10" SPR. No.2

WOOD LINTELS AND BEAMS (WB)

WB1 = 2-2"x8" (2-38x184) SPR. No.2
WB2 = 3-2"x8" (3-38x184) SPR. No.2
WB3 = 2-2"x10" (2-38x235) SPR. No.2
WB4 = 3-2"x10" (3-38x235) SPR. No.2
WB5 = 2-2"x12" (2-38x286) SPR. No.2
WB6 = 3-2"x12" (3-38x286) SPR. No.2
WB7 = 5-2"x12" (5-38x286) SPR. No.2
WB11 = 4-2"x10" (4-38x235) SPR. No.2
WB12 = 4-2"x12" (4-38x286) SPR. No.2

LAMINATED VENEER LUMBER (LVL) BEAMS

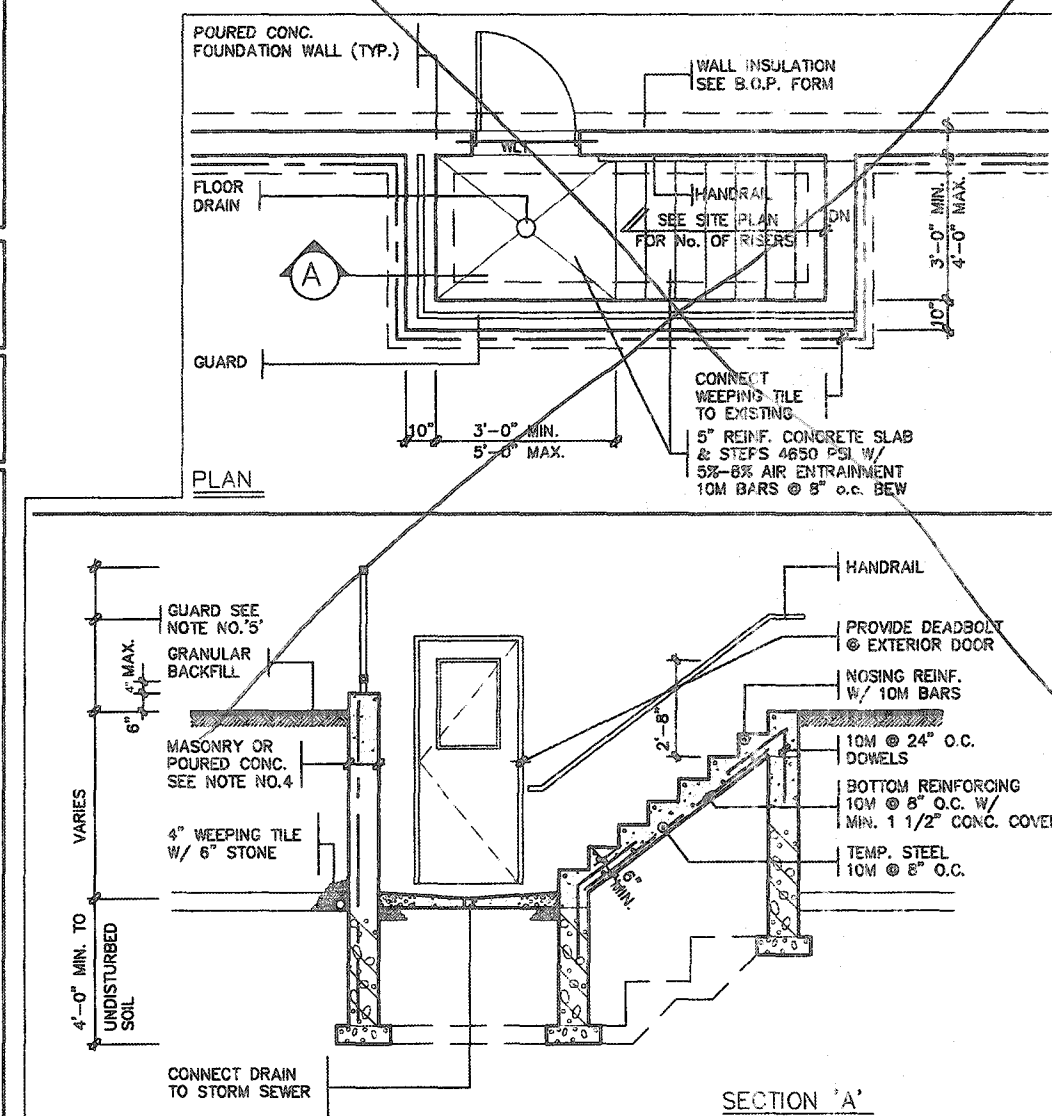
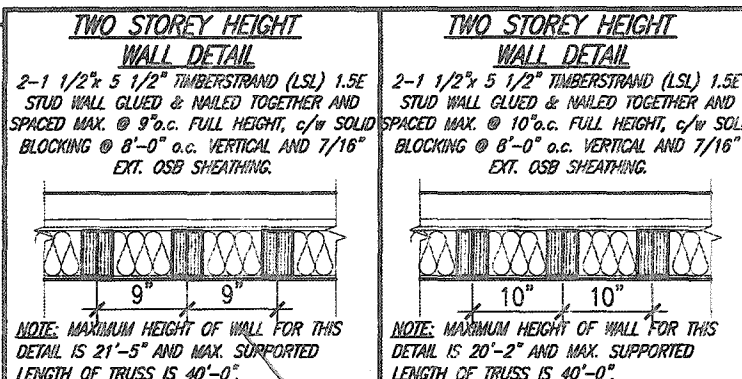
LVL1A = 1-1 3/4"x7 1/4" (1-45x184)
LVL1 = 2-1 3/4"x7 1/4" (2-45x184)
LVL2 = 3-1 3/4"x7 1/4" (3-45x184)
LVL3 = 4-1 3/4"x7 1/4" (4-45x184)
LVL4A = 1-1 3/4"x9 1/2" (1-45x240)
LVL4 = 2-1 3/4"x9 1/2" (2-45x240)
LVL5 = 3-1 3/4"x9 1/2" (3-45x240)
LVL5A = 4-1 3/4"x9 1/2" (4-45x240)
LVL6A = 1-1 3/4"x11 7/8" (1-45x300)
LVL6 = 2-1 3/4"x11 7/8" (2-45x300)
LVL7 = 3-1 3/4"x11 7/8" (3-45x300)
LVL8 = 2-1 3/4"x14" (2-45x356)
LVL9 = 3-1 3/4"x14" (3-45x356)

LOOSE STEEL LINTELS (L)

L1 = 3-1/2" x 3-1/2" x 1/4" (90x90x6.0L)
L2 = 4" x 3-1/2" x 5/16" (100x90x8.0L)
L3 = 5" x 3-1/2" x 5/16" (125x90x8.0L)
L4 = 6" x 3-1/2" x 3/8" (150x90x10.0L)
L5 = 6" x 4" x 3/8" (150x100x10.0L)
L6 = 7" x 4" x 3/8" (180x100x10.0L)

DOOR SCHEDULE

NOS.	WIDTH	HEIGHT 8'-9" CEILING	HEIGHT 10' OR MORE CEILING	TYPE
1	2'-10"	6'-8"	8'-0"	INSULATED ENTRANCE DOOR
1a	2'-8"	6'-8"	8'-0"	INSULATED FRONT DOORS
2	2'-8"	6'-8"	8'-0"	WOOD & GLASS DOOR
3	2'-8"	6'-8"	8'-0"	EXTERIOR SLAB DOOR
4	2'-8"	6'-8"	8'-0"	INTERIOR SLAB DOOR
5	2'-6"	6'-8"	8'-0"	INTERIOR SLAB DOOR
6	2'-2"	6'-8"	8'-0"	INTERIOR SLAB DOOR
7	1'-6"	6'-8"	8'-0"	INTERIOR SLAB DOOR



- ### GENERAL NOTES
- FOOTINGS**
16"x6" POURED CONCRETE FOOTING. ALL FOOTINGS SHALL REST ON NATURAL UNDISTURBED SOIL OR COMPACTED ENGINEERED FILL.
 - CONCRETE**
MINIMUM COMPRESSIVE STRENGTH OF (32MPa) 4650 PSI @ 28 DAYS W/ 5% TO 8% AIR ENTRAINMENT
 - EXTERIOR STAIRS**
7 7/8" RISE MAXIMUM 4 7/8" MINIMUM
8 1/4" RUN MINIMUM 14" MAXIMUM
9 1/4" TREAD MINIMUM 14" MAXIMUM
 - RETAINING WALL**
10" POURED CONCRETE W/ NO REINFORCING REQUIRED FOR WALL HEIGHTS TO A MAX. OF 4'-7". PROVIDE 15M VERTICAL REINFORCEMENT @ 16" O.C. & 15M HORIZONTAL REINFORCEMENT @ 24" O.C. FOR WALL HEIGHTS TO 7'-0". RETAINING WALL TO RESIST LATERAL DESIGN LOADS AS PER OBC DIVISION B SECTION 4.1.5.16.
 - GUARDS**
3'-6" HIGH WHERE DISTANCE FROM GRADE TO BOTTOM OF WALKOUT EXCEEDS 5'-11". 2'-11" FOR LESSER HEIGHTS. MAXIMUM 4" BETWEEN VERTICAL PICKETS

BASEMENT WALK-UP PLAN, SECTION & NOTES

SCALE: N.T.S.

no.	description	date	by	no.	description	date	by
18				9			
17				8			
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	GW
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20	GW
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	GB
13				4	STAIRWAY WIDTH CORRECTED.	AUG 05/20	GW
12				3	ISSUED FOR PERMIT.	MAR 27/20	GW
11				2	UPDATED PER ENG. & CLIENT COMMENTS.	MAR 24/20	GW
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20	GW
no.	description	date	by	no.	description	date	by

The undersigned has reviewed and takes responsibility for this design and has the qualifications and made the requirements set out in the Ontario Building Code to be a Designer.
signature *R Vink* 24488
name registration information
VA3 Design Inc. 42656
Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.

THE MINIMAL THERMAL PERFORMANCE OF BUILDING ENVELOPE AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING SB-12 COMPLIANCE PACKAGE AS PER OBC SUPPLEMENTARY STANDARD SB-12, SECTION 3.1.1.1.

USE SB-12 COMPLIANCE PACKAGE (A1):

COMPONENT	A1	Notes:
Ceiling with Attic Space	10.56 (R60)	R20 at inner face of exterior walls
Minimum RSI (R) value		
Ceiling without Attic Space	5.46 (R31)	BATT or SPRAY
Minimum RSI (R) value		
Exposed Floor	5.46 (R31)	BATT or SPRAY
Minimum RSI (R) value		
Walls Above Grade	3.87 (R22)	6" R22 BATT
Minimum RSI (R) value		
Basement Walls	3.52ci (R20ci)	OPTION TO USE R12+R10ci.
Minimum RSI (R) value		
Edge of Below Grade Slab ≤600mm below grade	1.76 (R10)	RIGID INSUL
Minimum RSI (R) value		
Windows & Sliding glass Doors	0.28	
Maximum U-value		
Skylights	0.49	
Maximum U-value		
Space Heating Equipment	96% Min.	NATURAL GAS
Minimum AFUE		
Hot Water Heater	0.8	NATURAL GAS
Minimum EF		
HRV	75%	
Minimum Efficiency		
Drain Water Heat Recovery Unit (DWHR)	Minimum 1 OR Maximum 2 Required. Dependent on number of showers installed. Refer to SB12-3.1.1.12 for information	

ci- Denotes Continuous Insulation without framing interrupton.

UNINSULATED OPENINGS (PER OBC. SB-12.3.1.1(7))

ELEVATION	WALL AREA S.F.	OPENING S.F.	PERCENTAGE
FRONT	852.40 S.F.	137.46 S.F.	16.13 %
LEFT SIDE	1254.61 S.F.	90.83 S.F.	7.24 %
RIGHT SIDE	1239.91 S.F.	52.33 S.F.	4.22 %
REAR	823.13 S.F.	171.67 S.F.	20.86 %
OPENINGS OMITTED AS PER SB-12 3.1.1.9(4) MAX 19.9 S.F. REFER TO ELEVATION FOR LOCATION		0.00 S.F.	
TOTAL SQ. FT.	4170.05 S.F.	452.29 S.F.	10.85 %
TOTAL SQ. M.	387.41 S.M.	42.02 S.M.	10.85 %

It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or working drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.
This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

REGISTERED PROFESSIONAL ENGINEER
B. MARINKOVIC
December 15, 2020
CITY OF HAMILTON

STRUDET INC.
FOR STRUCTURE ONLY

MOUNTAINASH 6-311 COMPLIANCE PACKAGE 'A1'

VA3 DESIGN
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
416.630.2255 / 416.630.4782
va3design.com

Greenpark.
project name
RUSSELL GARDENS PH. 3
HAMILTON, ONTARIO
date
JAN 2020
drawn by
BD.BIM
checked by
3/16" = 1'-0"

MOUNTAINASH 6
13.5m
project no.
19014
drawing no.
A0
GENERAL NOTES & CHARTS
19014-MOUNTAINASH-6-311
15-2023 - 13-41 M

3409 SF.

CERAMIC TILE FOR CONVENTIONAL LUMBER (OBC 9.30.6)

SPACE ALL CONVENTIONAL FLOOR JOISTS @ 12" O.C. BELOW ALL CERAMIC TILE AREAS.
PROVIDE 1 ROW BRIDGING FOR SPANS OF 5'-0"-7'-0".
2 ROWS FOR SPANS GREATER THAN 7'-0".

NOTE: ROOF FRAMING

REFER TO ROOF TRUSS SHOP DRAWINGS FOR ALL ROOF FRAMING INFORMATION UNLESS OTHERWISE NOTED.

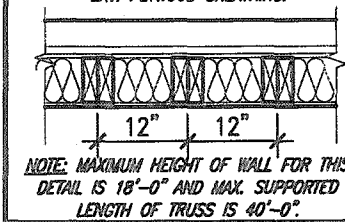
PLANS NOT DRAWN TO ACTUAL GRADE. REFER TO FINAL APPROVED GRADING PLAN.

NOTE: ENGINEERED FLOOR FRAMING

REFER TO ENGINEERED FLOOR LAYOUTS FOR ALL ENGINEERED FLOOR FRAMING INFORMATION AND DETAILS. UNLESS OTHERWISE NOTED.

TWO STOREY HEIGHT WALL DETAIL

2-2"x6" STUD WALL NAILED TOGETHER AND SPACED @ 12" O.C. FULL HEIGHT, c/w SOLID BLOCKING @ 4'-0" O.C. VERTICAL AND 7/16" EXT. PLYWOOD SHEATHING.



AREA CALCULATIONS ELEV '2' LOT 311

GROUND FLOOR AREA	1486 SF
SECOND FLOOR AREA	1909 SF
TOTAL FLOOR AREA	3395 SF (315.41 m2)
FIRST FLOOR OPEN AREA	0 SF
SECOND FLOOR OPEN AREA	8 SF
ADD TOTAL OPEN AREAS	+8 SF
ADD FINISHED BSMT AREA	+0 SF
GROSS FLOOR AREA	3403 SF (316.15 m2)
GROUND FLOOR COVERAGE	1493 SF
GARAGE COVERAGE/AREA	393 SF
PORCH COVERAGE/AREA	95 SF
COVERAGE W/ PORCH	1981 SF (184.04 m2)
COVERAGE W/O PORCH	1886 SF (175.22 m2)

STRIP FOOTINGS - FOR SINGLES & SEMIS UP TO 2 STOREYS

8" OR 10" FOUNDATION WALLS WITH 2"x8" / 2"x10" FLOOR JOISTS
20"x6" CONCRETE STRIP FOOTINGS BELOW FOUNDATION WALLS.
24"x8" CONCRETE STRIP FOOTINGS BELOW PARTY WALLS.
FOUNDATION WALLS WITH ENGINEERED JOISTS OVER 16' SPANS
24"x8" CONCRETE STRIP FOOTINGS BELOW FOUNDATION WALLS.

FOOTINGS ON ENGINEERED FILL

24"x8" CONCRETE STRIP FOOTINGS WITH REINFORCING.
BELOW EXTERIOR WALLS.
30"x8" CONCRETE STRIP FOOTINGS WITH REINFORCING.
BELOW PARTY WALLS.
(REFER TO ENGINEER FILL FOOTING DETAIL)

ASSUME THE LARGER FOOTING SIZE WHEN TWO CONDITIONS APPLY

ASSUMED 120 KPa (18 p.s.i.) SOIL BEARING CAPACITY FOR SINGLES OR 90 KPa FOR ENGINEERED FILL, TO BE VERIFIED ON SITE.

PAD FOOTINGS

120 KPa, NATIVE SOIL 80 KPa, ENGINEERED FILL SOIL

F1 = 42"x42"x18" CONCRETE PAD F1 = 48"x48"x20" CONCRETE PAD
F2 = 36"x36"x16" CONCRETE PAD F2 = 40"x40"x16" CONCRETE PAD
F3 = 30"x30"x12" CONCRETE PAD F3 = 34"x34"x14" CONCRETE PAD
F4 = 24"x24"x12" CONCRETE PAD F4 = 28"x28"x12" CONCRETE PAD
F5 = 16"x16"x8" CONCRETE PAD F5 = 18"x18"x8" CONCRETE PAD

(REFER TO FLOOR PLAN FOR UNUSUAL SIZE PADS NOT ON CHART.)

VENEER CUT

WHEN VENEER CUT IS GREATER THAN 26", A 10" POURED CONCRETE FOUNDATION WALL IS REQUIRED.

EXPOSED CONCRETE (FLATWORK)

ALL GARAGE SLABS, PORCH SLABS, STAIRS (EXPOSED CONC. FLAT WORK) TO BE 32 MPa WITH 5-8% AIR ENTRAINMENT.

BRICK VENEER LINTELS (WL)

WL1 = 3-1/2" x 3-1/2" x 1/4" (90x90x6.0L) + 2-2"x8" SPR. No.2
WL2 = 4" x 3-1/2" x 5/16" (100x90x8.0L) + 2-2"x8" SPR. No.2
WL3 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 2-2"x10" SPR. No.2
WL4 = 6" x 3-1/2" x 3/8" (150x90x10.0L) + 2-2"x12" SPR. No.2
WL5 = 6" x 4" x 3/8" (150x100x10.0L) + 2-2"x12" SPR. No.2
WL6 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 2-2"x12" SPR. No.2
WL7 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 3-2"x12" SPR. No.2
WL8 = 5" x 3-1/2" x 5/16" (125x90x8.0L) + 3-2"x10" SPR. No.2
WL9 = 6" x 4" x 3/8" (150x100x10.0L) + 3-2"x10" SPR. No.2

WOOD LINTELS AND BEAMS (WB)

WB1 = 2-2"x8" (2-38x184) SPR. No.2
WB2 = 3-2"x8" (3-38x184) SPR. No.2
WB3 = 2-2"x10" (2-38x235) SPR. No.2
WB4 = 3-2"x10" (3-38x235) SPR. No.2
WB5 = 2-2"x12" (2-38x286) SPR. No.2
WB6 = 3-2"x12" (3-38x286) SPR. No.2
WB7 = 5-2"x12" (5-38x286) SPR. No.2
WB11 = 4-2"x10" (4-38x235) SPR. No.2
WB12 = 4-2"x12" (4-38x286) SPR. No.2

LAMINATED VENEER LUMBER (LVL) BEAMS

LVL1A = 1-1 3/4"x7 1/4" (1-45x184)
LVL1 = 2-1 3/4"x7 1/4" (2-45x184)
LVL2 = 3-1 3/4"x7 1/4" (3-45x184)
LVL3 = 4-1 3/4"x7 1/4" (4-45x184)
LVL4A = 1-1 3/4"x9 1/2" (1-45x240)
LVL4 = 2-1 3/4"x9 1/2" (2-45x240)
LVL5 = 3-1 3/4"x9 1/2" (3-45x240)
LVL5A = 4-1 3/4"x9 1/2" (4-45x240)
LVL6A = 1-1 3/4"x11 7/8" (1-45x300)
LVL6 = 2-1 3/4"x11 7/8" (2-45x300)
LVL7 = 3-1 3/4"x11 7/8" (3-45x300)
LVL8 = 2-1 3/4"x14" (2-45x356)
LVL9 = 3-1 3/4"x14" (3-45x356)

LOOSE STEEL LINTELS (L)

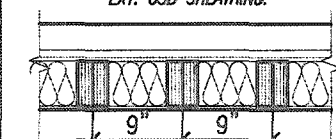
L1 = 3-1/2" x 3-1/2" x 1/4" (90x90x6.0L)
L2 = 4" x 3-1/2" x 5/16" (100x90x8.0L)
L3 = 5" x 3-1/2" x 5/16" (125x90x8.0L)
L4 = 6" x 3-1/2" x 3/8" (150x90x10.0L)
L5 = 6" x 4" x 3/8" (150x100x10.0L)
L6 = 7" x 4" x 3/8" (180x100x10.0L)

DOOR SCHEDULE

NOS.	WIDTH	HEIGHT 8'-0" CEILING	HEIGHT 10' OR MORE CEILING	TYPE
1	2'-10"	6'-8"	8'-0"	INSULATED ENTRANCE DOOR
1a	2'-8"	6'-8"	8'-0"	INSULATED FRONT DOORS
2	2'-8"	6'-8"	8'-0"	WOOD & GLASS DOOR
3	2'-8"	6'-8"	8'-0"	EXTERIOR SLAB DOOR
4	2'-8"	6'-8"	8'-0"	INTERIOR SLAB DOOR
5	2'-6"	6'-8"	8'-0"	INTERIOR SLAB DOOR
6	2'-2"	6'-8"	8'-0"	INTERIOR SLAB DOOR
7	1'-6"	6'-8"	8'-0"	INTERIOR SLAB DOOR

TWO STOREY HEIGHT WALL DETAIL

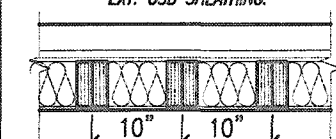
2-1 1/2" x 5 1/2" TIMBERSTRAND (LSL) 1.5E
STUD WALL GLUED & NAILED TOGETHER AND
SPACED MAX. @ 9" o.c. FULL HEIGHT, c/w SOLID
BLOCKING @ 8'-0" o.c. VERTICAL AND 7/16"
EXT. OSB SHEATHING.



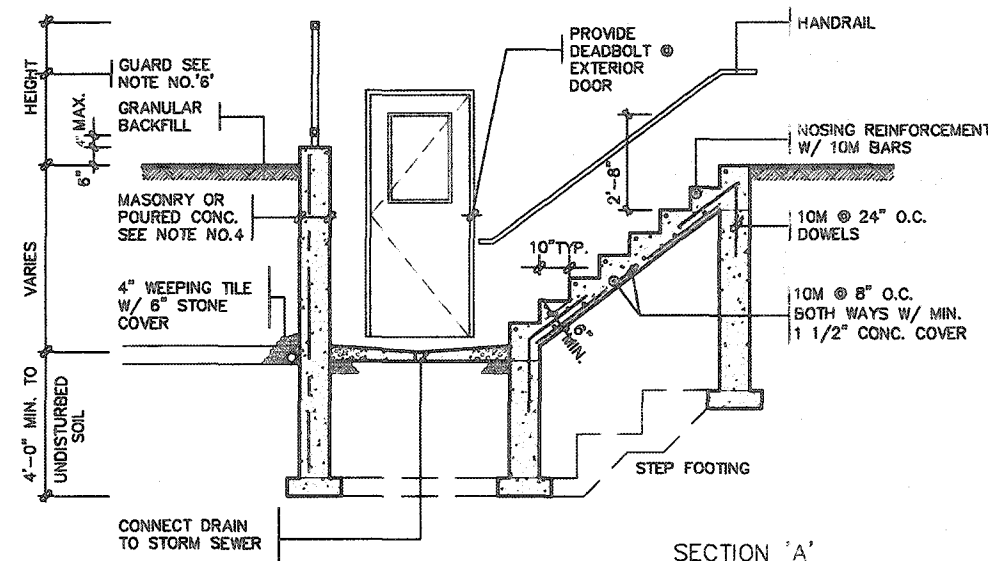
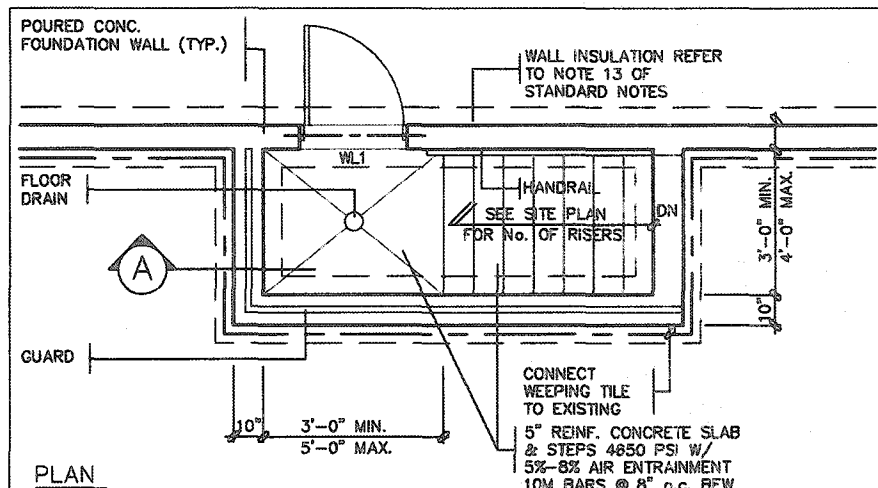
NOTE: MAXIMUM HEIGHT OF WALL FOR THIS DETAIL IS 21'-5" AND MAX. SUPPORTED LENGTH OF TRUSS IS 40'-0".

TWO STOREY HEIGHT WALL DETAIL

2-1 1/2" x 5 1/2" TIMBERSTRAND (LSL) 1.5E
STUD WALL GLUED & NAILED TOGETHER AND
SPACED MAX. @ 10" o.c. FULL HEIGHT, c/w SOLID
BLOCKING @ 8'-0" o.c. VERTICAL AND 7/16"
EXT. OSB SHEATHING.



NOTE: MAXIMUM HEIGHT OF WALL FOR THIS DETAIL IS 20'-2" AND MAX. SUPPORTED LENGTH OF TRUSS IS 40'-0".



GENERAL NOTES

1. FOOTINGS

24"x8" POURED CONCRETE FOOTING.
ALL FOOTINGS SHALL REST ON
NATURAL UNDISTURBED SOIL OR
COMPACTED ENGINEERED FILL.

2. CONCRETE

MINIMUM COMPRESSIVE STRENGTH OF
(32MPa) 4650 PSI @ 28 DAYS W/
5% TO 8% AIR ENTRAINMENT

3. EXTERIOR STAIRS

7 7/8" RISE MAXIMUM 4 7/8" MINIMUM
8 1/4" RUN MINIMUM 14" MAXIMUM
9 1/4" TREAD MINIMUM 14" MAXIMUM

4. INSULATION

FOR INSULATION VALUE & VAPOUR BARRIER LOCATION,
REFER TO NOTE 13 OF STANDARD NOTES.

5. RETAINING WALL

10" POURED CONCRETE W/ NO REINFORCING REQUIRED FOR
WALL HEIGHTS TO A MAX. OF 4'-7". PROVIDE 15M VERTICAL
REINFORCEMENT @ 16" o.c. FOR WALL HEIGHTS FROM 4'-8"
TO 7'-0". 15M HORIZONTAL EACH FACE @ 16" o.c. & 15M
VERTICAL EACH FACE @ 12" o.c. FOR WALL HEIGHTS FROM
7'-0" TO 8'-6". WALL TO RESIST LATERAL DESIGN LOADS
AS PER OBC DIVISION B SECTION 4.1.5.16.

6. GUARDS

3'-6" HIGH WHERE DISTANCE FROM GRADE TO BOTTOM
OF WALKOUT EXCEEDS 5'-11"; 2'-11" FOR LESSER
HEIGHTS. MAXIMUM 4" BETWEEN VERTICAL PICKETS

BASEMENT WALK-UP

PLAN, SECTION & NOTES

SCALE: N.T.S.

18				9					
17				8					
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	GW		
15				6	REAR UPGRADE REVISED PER A.C.	OCT 05/20	GW		
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	DB		
13				4	STAIRWAY WIDTH CORRECTED.	AUG. 05/20	GW		
12				3	ISSUED FOR PERMIT.	MAR 27/20	GW		
11				2	UPDATED PER ENG & CLIENT COMMENTS.	MAR 24/20	GW		
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20	GW		
no.	description	date	by	no.	description	date	by		

THE MINIMAL THERMAL PERFORMANCE OF BUILDING ENVELOPE AND EQUIPMENT SHALL CONFORM TO THE FOLLOWING SB-12 COMPLIANCE PACKAGE AS PER OBC SUPPLEMENTARY STANDARD SB-12, SECTION 3.1.1.1.

USE SB-12 COMPLIANCE PACKAGE (A1):

COMPONENT	A1	Notes:
Ceiling with Attic Space	10.56 (R60)	R20 at inner face of exterior walls
Minimum RSI (R) value		
Ceiling without Attic Space	5.46 (R31)	BATT or SPRAY
Minimum RSI (R) value		
Exposed Floor	5.46 (R31)	BATT or SPRAY
Minimum RSI (R) value		
Walls Above Grade	3.87 (R22)	6" R22 BATT
Minimum RSI (R) value		
Basement Walls	3.52ci (R20ci)	OPTION TO USE R12+R10ci.
Minimum RSI (R) value		
Edge of Below Grade Slab <600mm below grade	1.76 (R10)	RIGID INSUL
Minimum RSI (R) value		
Windows & Sliding glass Doors	0.28	
Maximum U-value		
Skylights	0.49	
Maximum U-value		
Space Heating Equipment	96% Min.	NATURAL GAS
Minimum AFUE		
Hot Water Heater	0.8	NATURAL GAS
Minimum EF		
HRV	75%	
Minimum Efficiency		
Drain Water Heat Recovery Unit (DWHR)	Minimum 1 OR Maximum 2 Required. Dependent on number of showers installed. Refer to SB12-3.1.1.12 for information	

ci- Denotes Continuous Insulation without framing interruption.

UNINSULATED OPENINGS (PER OBC, SB-12.3.1.1(7))

MOUNTAINASH 6 ELEV. 2 LOT 311	ENERGY EFFICIENCY - OBC SB12
ELEVATION	WALL AREA S.F. OPENING S.F. PERCENTAGE
FRONT	852.40 S.F. 137.46 S.F. 16.13 %
LEFT SIDE	1254.61 S.F. 90.83 S.F. 7.24 %
RIGHT SIDE	1239.91 S.F. 52.33 S.F. 4.22 %
REAR	823.13 S.F. 171.67 S.F. 20.86 %
* OPENINGS OMITTED AS PER SB-12 3.1.1.9(4) MAX 19.9 S.F. REFER TO ELEVATION FOR LOCATION	
	0.00 S.F.
TOTAL SQ. FT.	4170.05 S.F. 452.29 S.F. 10.85 %
TOTAL SQ. M.	387.41 S.M. 42.02 S.M. 10.85 %

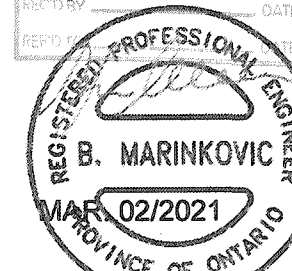
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This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

BUILDING DIVISION
Planning & Development Department

MAR 23 2021

STRUDET INC.



FOR STRUCTURE ONLY

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

3409 SF.

CERAMIC TILE FOR CONVENTIONAL LUMBER (OBC 9.30.6)

SPACE ALL CONVENTIONAL FLOOR JOISTS @ 12" o.c. BELOW ALL CERAMIC TILE AREAS.
PROVIDE 1 ROW BRIDGING FOR SPANS OF 5'0"-7'0", 2 ROWS FOR SPANS GREATER THAN 7'0".

NOTE: ROOF FRAMING

REFER TO ROOF TRUSS SHOP DRAWINGS FOR ALL ROOF FRAMING INFORMATION UNLESS OTHERWISE NOTED.

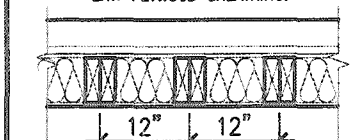
PLANS NOT DRAWN TO ACTUAL GRADE. REFER TO FINAL APPROVED GRADING PLAN.

NOTE: ENGINEERED FLOOR FRAMING

REFER TO ENGINEERED FLOOR LAYOUTS FOR ALL ENGINEERED FLOOR FRAMING INFORMATION AND DETAILS. UNLESS OTHERWISE NOTED.

TWO STOREY HEIGHT WALL DETAIL

2-2"x6" STUD WALL NAILED TOGETHER AND SPACED @ 12" o.c. FULL HEIGHT, c/w SOLID BLOCKING @ 4'-0" o.c. VERTICAL AND 7/16" EXT. PLYWOOD SHEATHING.



NOTE: MAXIMUM HEIGHT OF WALL FOR THIS DETAIL IS 18'-0" AND MAX. SUPPORTED LENGTH OF TRUSS IS 40'-0".

AREA CALCULATIONS ELEV '2' LOT 311

GROUND FLOOR AREA	1486 SF
SECOND FLOOR AREA	1909 SF
TOTAL FLOOR AREA	3395 SF (315.41 m2)
FIRST FLOOR OPEN AREA	0 SF
SECOND FLOOR OPEN AREA	8 SF
ADD TOTAL OPEN AREAS	+8 SF
ADD FINISHED BSMT AREA	+0 SF
GROSS FLOOR AREA	3403 SF (316.15 m2)
GROUND FLOOR COVERAGE	1493 SF
GARAGE COVERAGE/AREA	393 SF
PORCH COVERAGE/AREA	95 SF
COVERAGE W/ PORCH	1881 SF (184.04 m2)
COVERAGE W/O PORCH	1886 SF (175.22 m2)

CITY OF HAMILTON
Building Division

Permit No. 107183

THESE STAMPED DRAWINGS SHALL BE AVAILABLE ON SITE

THE OWNER AND/OR CONTRACTOR SHALL COMPLY WITH THE CITY OF HAMILTON BUILDING CODE AND ALL OTHER APPLICABLE LAWS

ALL DIMENSIONS AND/OR SPECIFICATIONS HAVE BEEN REVIEWED

VA3
DESIGN

255 Consumers Rd Suite 120
Toronto ON M2J 1R4
416.630.2255 / 416.630.4782
va3design.com

Greenpark.

project name
RUSSELL GARDENS PH. 3
date
JAN 2020
drawn by
BD.BIM
checked by
scale
3/16" = 1'-0"

MOUNTAINASH 6
13.5m

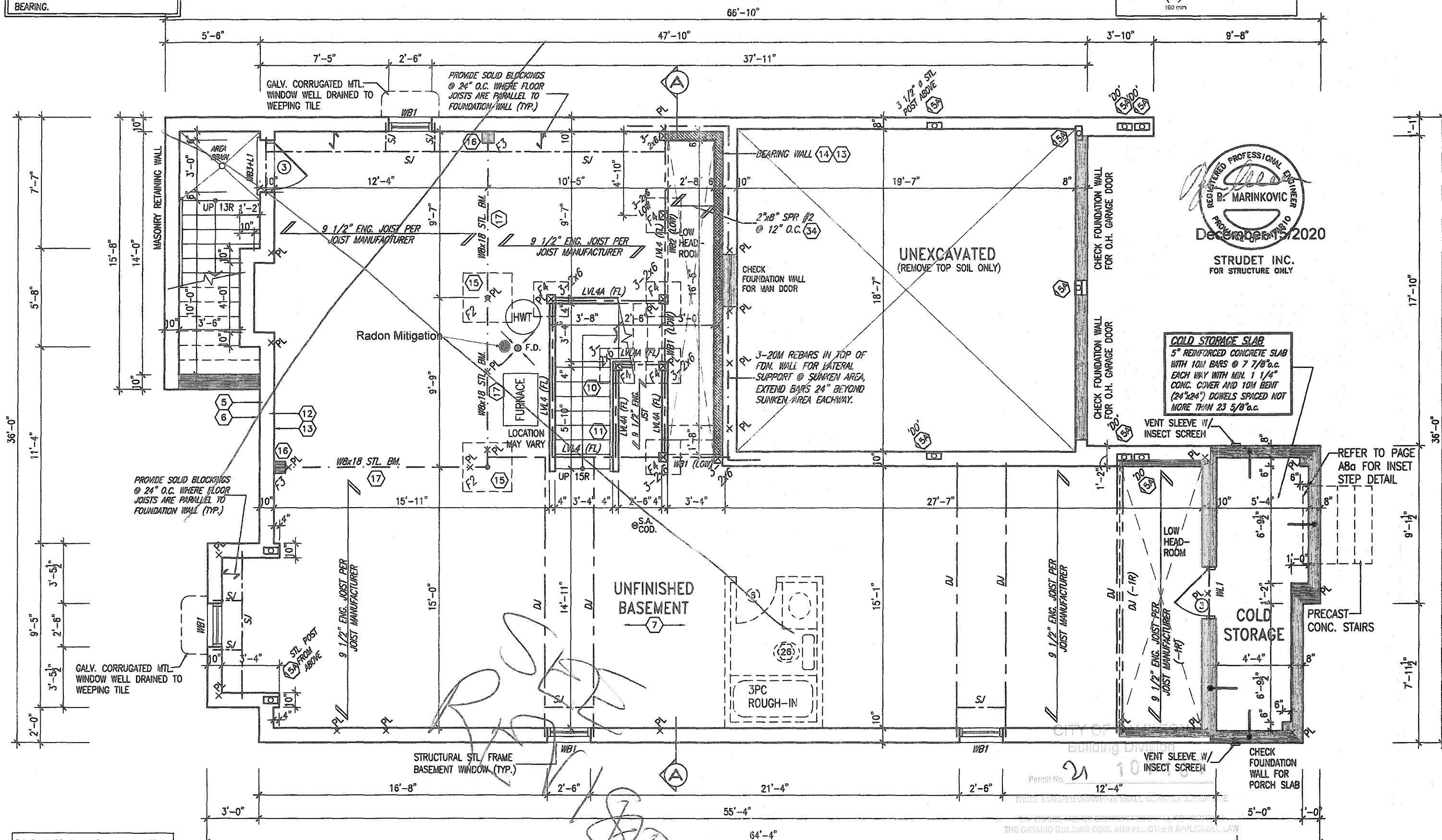
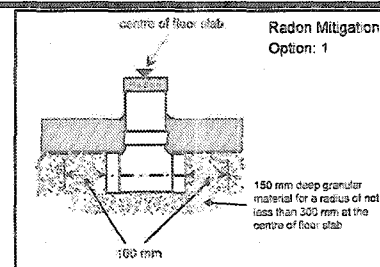
GENERAL NOTES & CHARTS

19014-MOUNTAINASH-6-311

project no.
19014
drawing no.
A0

BASEMENT WALL INSULATION
(TYP) 13
-6" (R20) CONTINUOUS BLANKET
INSULATION. INSULATION
UNINTERRUPTED BY FRAMING

3409 SF.



This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

APPROVED BY [Signature]
DATE JAN 28, 2011
This stamp certifies compliance with the applicable
Design Guidelines only and bears no further
professional responsibility.

BASEMENT PLAN - ELEV. '2'

These drawings and/or specifications have been reviewed by
 SM May 14/2
 FOR EACH BUILDING OFFICIAL DATE

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

 **Greenpark.**

MOUNTAINASH 6
13.5m

project name
RUSSELL GARDENS PH. 3

HAMILTON, ONTARIO

BASEMENT PLAN - ELEV. '2'

project no.
19014

A10

18				9		
17				8		
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20 Y
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20 G
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20 D
13				4	STAIRWAY WIDTH CORRECTED.	AUG 05/20 G
12				3	ISSUED FOR PERMIT.	APR 13/20 G
11				2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20 G
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20 G
no.	description	date	by	no.	description	date

PT	The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.	
OB	qualification information	
SW	Richard Vink	2448
OB	home registration information	BC
SW	V3 Design Inc.	4265
OB	Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are statements of service and the property of the Designer which must be returned at the completion of the work.	

VA3 DESIGN

DESIGN
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.478
va3design.com

date	JAN 2020		BASE
drawn by	checked by	scale	
RD.BIM	-	3/16" = 1'-0"	

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BASEMENT INSULATION AT
STAIR/SUNKEN AREAS
-2" (R10) CONTINUOUS INSULATION
(RIGID OR SPRAY FOAM).
-2"x4" @ 16"o.c. w/ R12 BATT
INSULATION & 1/2" DRYWALL FINISH
-EXTEND EXTERIOR WALL FOOTING TO
SUPPORT 2"x4" WALL WHERE LOAD
BEARING.

[illegible]

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This is to certify that these plans comply
with the applicable Architectural Design
Guidelines approved by the City of
HAMILTON

3

CITY OF HAMILTON
BUILDING DIVISION
Planning & Development Department

MAR 23 2021

RECEIVED _____ DATE _____
RECEIVED _____ DATE _____

MOUNTAINASH 6
13.5m

Subject no.
9014

ନିମ୍ନ

A1a1

18				9				The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
17				8	UPDATED WALKUP STAIR.	MAR. 01/21	GW	 signature
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	WT	
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20	GW	
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	DB	
13				4	STAIRWAY WIDTH CORRECTED.	AUG. 05/20	GW	
12				3	ISSUED FOR PERMIT.	APR 13/20	GW	2448 60 4255
11				2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20	GW	
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20	GW	
no.	description		date	by	no.	description	date	by

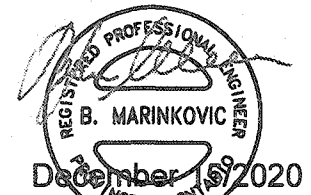
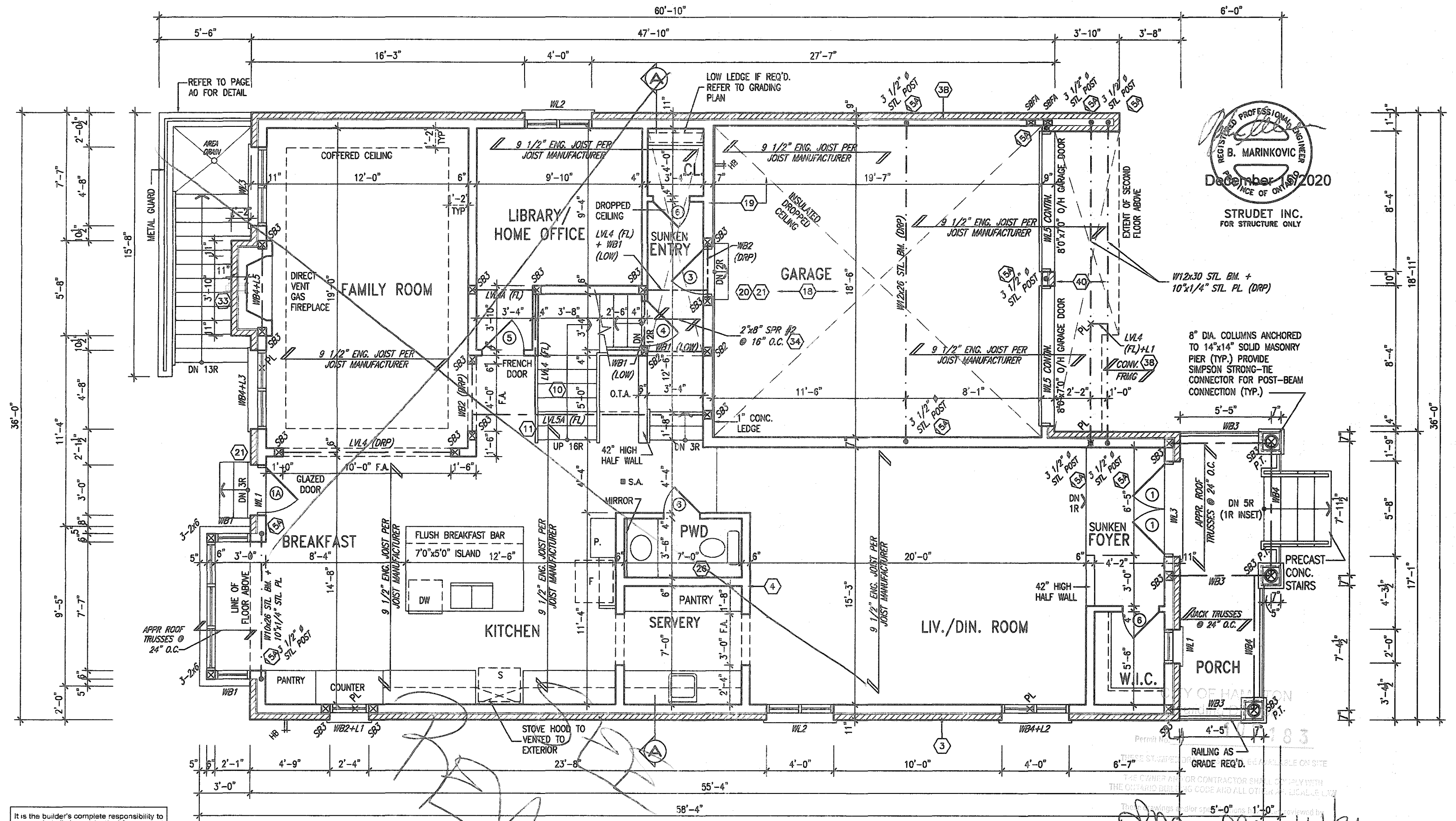
The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.	
qualification information	
Richard Vink	2448
name	signature
registration information	803
VA3 Design Inc.	4255
Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.	

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DESIGN**
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.478
va3design.com

 Greenpark™		MOUNTAINASH 6 13.5m	
project name RUSSELL GARDENS PH. 3		municipality HAMILTON, ONTARIO	
date JAN 2020		project no. 19014	
drawn by BD.BM		checked by -	
scale 3/16" = 1'-0"		title name BASEMENT PLAN - ELEV. '2'	
drawing no. 19014-MOUNTAINASH-6-311		A1a	

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3409 SF.



STRUDET INC.
FOR STRUCTURE ONLY

W12x30 STL. BM. +
10'x1/4" STL. PL. (DRP)

8" DIA. COLUMNS ANCHORED
TO 14"x14" SOLID MASONRY
PIER (TYP.) PROVIDE
SIMPSON STRONG-TIE
CONNECTOR FOR POST-BEAM
CONNECTION (TYP.)

GROUND FLOOR PLAN - ELEV. '2'

OUTDOOR AIR INTAKE SEPARATION
ALL OUTDOOR AIR INTAKE VENTS TO BE SEPARATED A
MINIMUM DISTANCE FROM SOURCES OF CONTAMINATION
PER OBC, DIV. B - TABLE 6.2.3.12.
• KITCHEN EXHAUST 3.0m
• DRIVEWAY, PARKING SPACE, ROAD 1.5m
• SOLID FUEL APPLIANCE EXHAUST 3.0m
KIT-EX-NOTE-2020.dwg

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

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This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

JOHN G. WILLIAMS LTD., ARCHITECT
ARCHITECTURAL CONTROL REVIEW
AND APPROVAL
APPROVED BY: [Signature]
DATE: JAN 28, 2021
This stamp certifies compliance with the applicable Design Guidelines only and bears no further professional responsibility.

18			9		
17			8		
16			7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20 WT
15			6	REAR UPGRADE REVISED PER A.C.	OCT 06/20 GW
14			5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20 DB
13			4	STAIRWAY WIDTH CORRECTED.	AUG. 05/20 GW
12			3	ISSUED FOR PERMIT.	APR 13/20 GW
11			2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20 GW
10			1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20 GW
no.	description	date	by	no.	description

The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
qualification information
Richard Vink 24488 BCN
signature
VA3 Design Inc. 42658
Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.

VA3 DESIGN
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.4782
va3design.com

project name	RUSSELL GARDENS PH. 3	municipality	HAMILTON, ONTARIO	project no.	19014
date	JAN 2020	checked by	scale 3/16" = 1'-0"	drawing no.	A2a
drawn by	BD-BHM	checked by	scale 3/16" = 1'-0"	file name	18014-MOUNTAINASH-6-311
drawn by	BD-BHM	checked by	scale 3/16" = 1'-0"	file name	18014-MOUNTAINASH-6-311

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STUD WALL REINFORCEMENT FOR FUTURE GRAB BARS IN MAIN BATHROOM
REINFORCEMENT OF STUD WALLS SHALL BE INSTALLED ADJACENT TO WATER CLOSETS AND SHOWER OR BATHTUB IN MAIN BATHROOM PER OBC, DIV. B-9.5.2.3. REFER TO FOLLOWING SECTIONS FOR THE FIXTURES LISTED. WATER CLOSET: 3.8.3.8.(3)/(a) & 3.8.3.8.(3)/(c). SHOWER 3.8.3.13.(2)/(g). BATHTUB 3.8.3.13.(4)/(a). FREE STANDING BATHTUB EXCLUDED. SEE DETAILS PROVIDED. 06-NOT-2020.dwg



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This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

JOHN C. WILLIAMS LTD., ARCHITECT
ARCHITECTURAL CONTROL REVIEW
AND APPROVALS

APPROVED BY: [Signature]
DATE: JAN 28, 2021

This stamp certifies compliance with the applicable
Design Guidelines only and bears no further
professional responsibility.

SECOND FLOOR PLAN - ELEV. '2'

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

Greenpark.

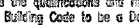
MOUNTAINASH 6
13.5m

HAMILTON, ONTARIO

SECOND FLOOR PLAN - ELEV. '2'

வாங்கிய நং.

A3a

18				9				The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.  signature 2448 4263
17				8				
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	WT	
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20	GW	
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	DB	
13				4	STAIRWAY WIDTH CORRECTED.	AUG. 05/20	GW	
12				3	ISSUED FOR PERMIT.	APR 13/20	GW	
11				2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20	GW	
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20	GW	
no.	description		date	no.	description	date	by	

**VA3
DESIGN**
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.4787
va3design.com

 Greenpark.		MOUNTAINASH 13.5m	
project name RUSSELL GARDENS PH. 3		municipality HAMILTON, ONTARIO	
date JAN 2020		project 19014	
drawn by BD.BIM		drawing no. SECOND FLOOR PLAN - ELEV. '2'	
checked by -		title name 19014-MOUNTAINASH-6-311	
scale 3/16" = 1'-0"		drawing no. A3a	

[illegible]

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

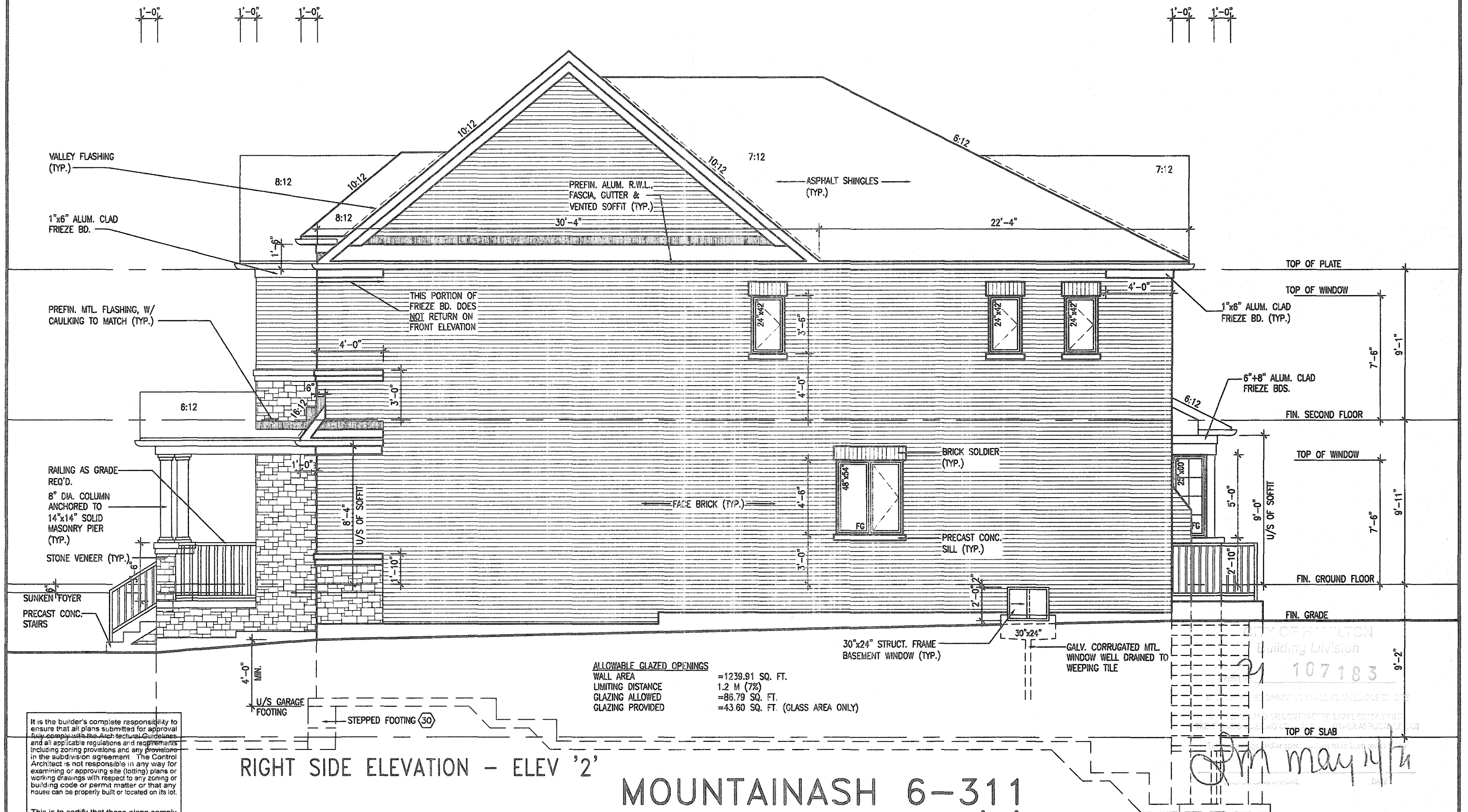
 Greenpark.		MOUNTAINASH 6 13.5m	
project name RUSSELL GARDENS PH. 3		municipality HAMILTON, ONTARIO	
date JAN 2020		project no. 19014	
drawn by BD.BIM		drawing no. 19014-MOUNTAINASH-6-311	
checked by -		scale 3/16" = 1'-0"	
title name 19014-MOUNTAINASH-6-311		A4a	

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3409 SF.



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JOHN G. WILLIAMS LTD., ARCHITECT
ARCHITECTURAL CONCEPT REVIEW
AND APPROVAL

APPROVED BY [Signature]
DATE JAN 28, 2021

This stamp certifies compliance with the applicable
Design Guidelines only and does not constitute
professional responsibility.

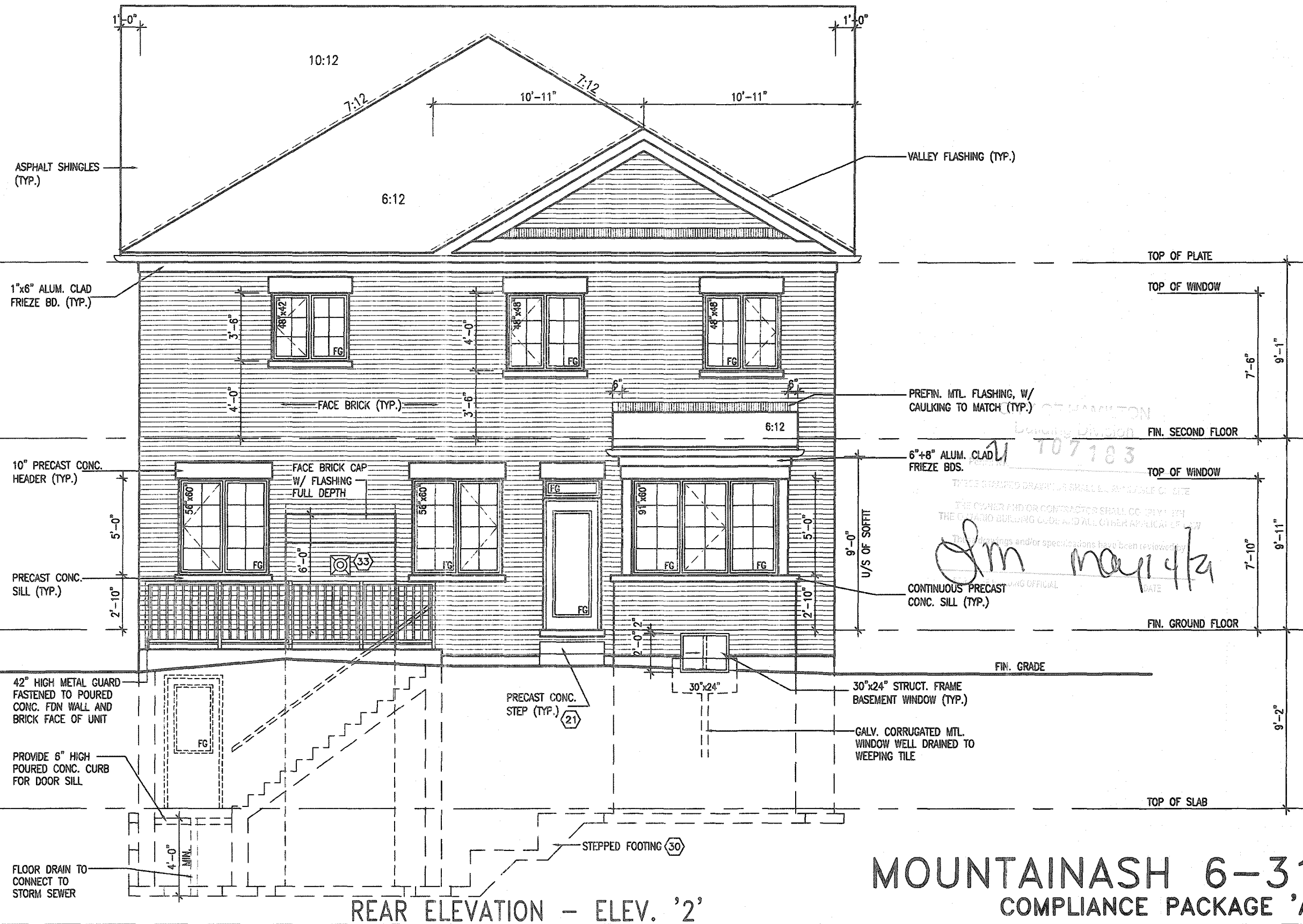
18				9	.	.	The undersigned has reviewed and taken responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.	
17				8	.	.		
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	WT	
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20	GW	Richard Vink 2448
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	DB	name signature BC
13				4	STARWAY WIDTH CORRECTED.	AUG. 05/20	GW	VAS Design Inc. 265
12				3	ISSUED FOR PERMIT.	APR 13/20	GW	
11				2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20	GW	Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are sent to be checked.
10	description	date	hw	no.	description	date	hw	
				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 28/20	GW	

The undersigned has released and takes responsibility for this design and has no further qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.		
qualification information	<i>R Vink</i>	
Richard Vink		2448
name	signature	EC
registration information		
VAS Design Inc.		4285
Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be copied.		

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255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.478
va3design.com

 Greenpark.		MOUNTAINASH 6 13.5m	
project name RUSSELL GARDENS PH. 3		project no. 19014	
date JAN 2020		drawing no. 19014-MOUNTAINASH-6-311	
drawn by BD.RIM		title name RIGHT SIDE ELEVATION - ELEV '2' STD	
checked by -		scale 3/16" = 1'-0"	
notes 19014-MOUNTAINASH-6-311		A6a	

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This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of Hamilton.

JOHN C. WILLIAMS LTD., ARCHITECT
ARCHITECTURAL CONTROL REVIEW
AND APPROVAL
APPROVED BY: [Signature]
DATE: JAN 28, 2022
This stamp certifies compliance with the applicable Design Guidelines only and does not constitute professional responsibility.

18			9		
17			8		
16			7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20 WT
15			6	REAR UPGRADE REVISED PER A.C.	OCT 06/20 GW
14			5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20 DB
13			4	STAIRWAY WIDTH CORRECTED.	AUG 05/20 GW
12			3	ISSUED FOR PERMIT.	APR 13/20 GW
11			2	UPDATED PER ENG & CLIENT COMMENTS.	MAR 24/20 GW
10			1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN 28/20 GW
no.	description	date	no.	description	date

The undersigned has reviewed and takes responsibility for the design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.
Richard Vink
signature
24488
BCH
VA3 Design Inc.
42658
Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.

VA3 DESIGN
255 Consumers Rd Suite 120
Toronto ON M2J 1R4
t 416.630.2255 f 416.630.4782
va3design.com

Greenpark.

project name
RUSSELL GARDENS PH. 3

date
JAN 2020

drawn by
BD.BIM

checked by
3/16" = 1'-0"

scale

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

project no.
19014

drawing no.
A7a

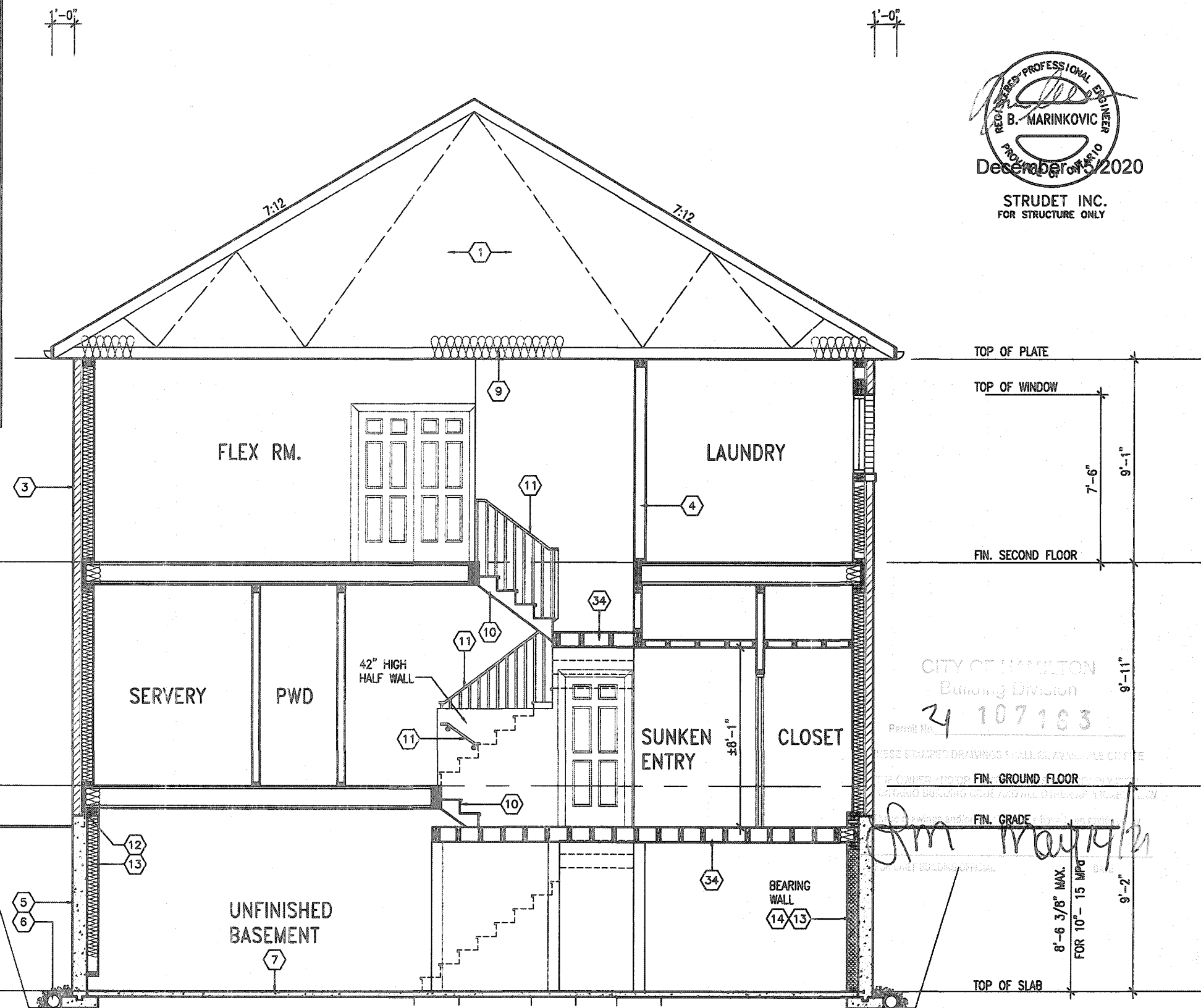
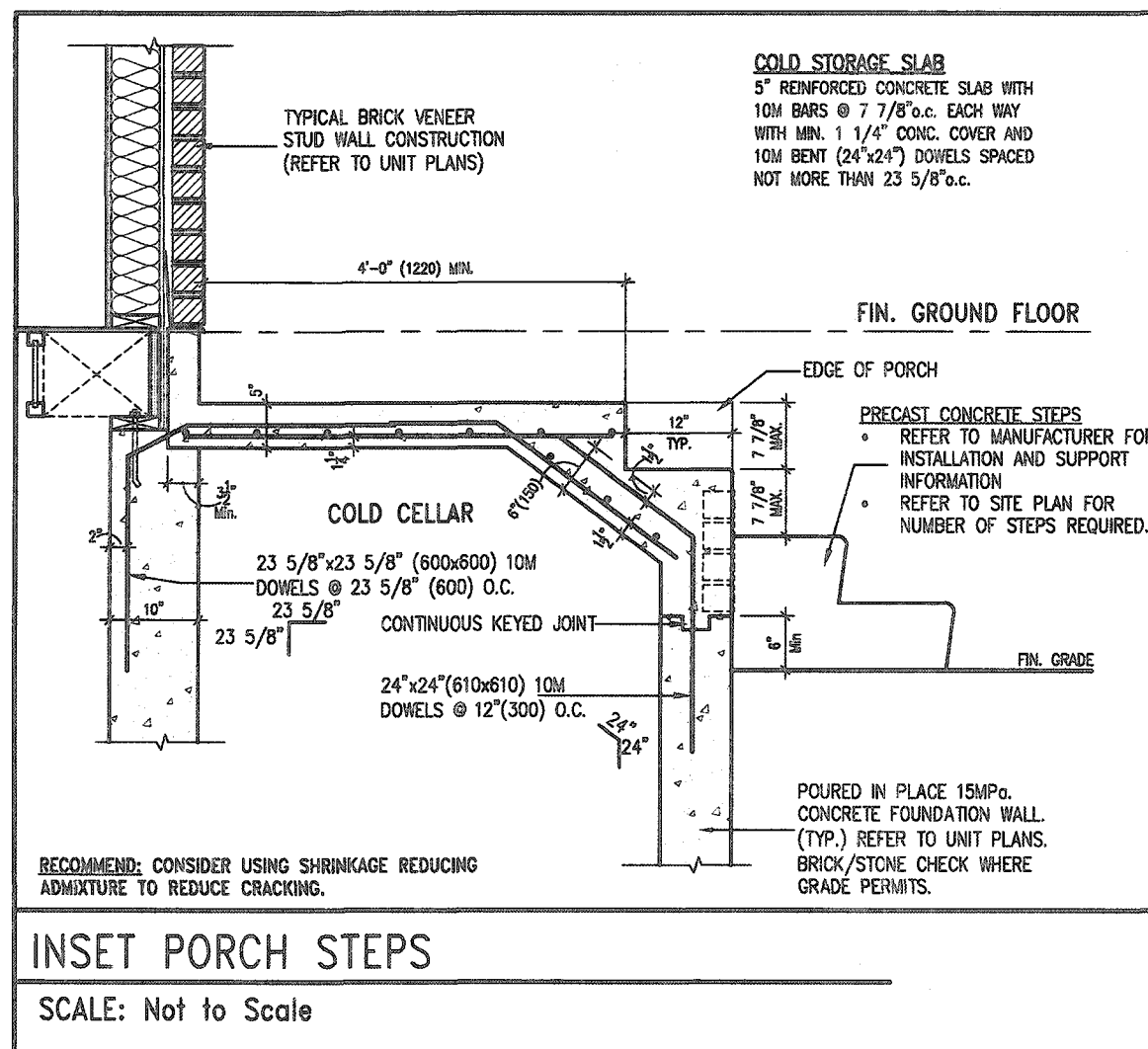
MOUNTAINASH 6
13.5m

HAMILTON, ONTARIO

REAR ELEVATION - ELEV '2' STD

19014-MOUNTAINASH-6-311

3409 SF.



CROSS SECTION 'A-A'
(ELEV. '2')

MOUNTAINASH 6-311
COMPLIANCE PACKAGE 'A1'

It is the builder's complete responsibility to ensure that all plans submitted for approval fully comply with the Architectural Guidelines and all applicable regulations and requirements including zoning provisions and any provisions in the subdivision agreement. The Control Architect is not responsible in any way for examining or approving site (lotting) plans or working drawings with respect to any zoning or building code or permit matter or that any house can be properly built or located on its lot.

This is to certify that these plans comply with the applicable Architectural Design Guidelines approved by the City of HAMILTON

no.	description	date	by	no.	description	date	by
18				9			
17				8			
16				7	REVISED REAR BOX BAY PER CLIENT.	DEC. 15/20	WT
15				6	REAR UPGRADE REVISED PER A.C.	OCT 06/20	GW
14				5	CUSTOM DRAWING FOR PURCHASER REQUEST.	AUG 27/20	DB
13				4	STAIRWAY WIDTH CORRECTED.	AUG. 05/20	GW
12				3	ISSUED FOR PERMIT.	APR 13/20	GW
11				2	UPDATED PER ENG & CLIENT COMMENTS	MAR 24/20	GW
10				1	PRELIMINARY. ISSUED FOR CLIENT REVIEW.	JAN. 26/20	GW
no.	description	date	by	no.	description	date	by

The undersigned has reviewed and takes responsibility for this design and has the qualifications and meets the requirements set out in the Ontario Building Code to be a Designer.

qualification information
Richard Mink
signature
24488
BOC
42658

Contractor must verify all dimensions on the job and report any discrepancy to the Designer before proceeding with the work. All drawings and specifications are instruments of service and the property of the Designer which must be returned at the completion of the work. Drawings are not to be scaled.

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Greenpark.

MOUNTAINASH 6
13.5m

project name RUSSELL GARDENS PH. 3	municipality HAMILTON, ONTARIO	project no. 19014
date JAN 2020	checked by BD.BIM	scale 3/16" = 1'-0"
CROSS SECTION 'A-A'		
19014-MOUNTAINASH-6-311		

A8a

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