

# 38-10 Beech

# Drawing List:

- Α0 TITLE SHEET
- Α1 BASEMENT FLOOR PLAN ELEV. 'A'
- A2 GROUND FLOOR PLAN ELEV. 'A'
- Α3 SECOND FLOOR PLAN ELEV. 'A'
- Α4 BASEMENT FLOOR PLAN ELEV. 'B'
- GROUND FLOOR PLAN ELEV. 'B' Α5
- SECOND FLOOR PLAN ELEV. 'B' Α6
- BASEMENT FLOOR PLAN ELEV. 'C' Α7
- Α8 GROUND FLOOR PLAN ELEV. 'C'
- Α9 SECOND FLOOR PLAN ELEV. 'C'
- A10 FRONT ELEVATION 'A'
  - ROOF PLAN ELEV 'A'
- RIGHT SIDE ELEVATION 'A' A11
- A12 REAR ELEVATION 'A', 'B' & 'C'
- LEFT SIDE ELEVATION 'A'
- A14 FRONT ELEVATION 'B' ROOF PLAN ELEV 'B'
- A15 RIGHT SIDE ELEVATION 'B'
- A16 LEFT SIDE ELEVATION 'B'
- A17 FRONT ELEVATION 'C' ROOF PLAN ELEV 'C'
- A18 RIGHT SIDE ELEVATION 'C'
- LEFT SIDE ELEVATION 'C'
- A20 PARTIAL GROUND FLOOR ELEV 'A', 'B' & 'C' OPT. WALK UP BASEMENT CONDITION PARTIAL OPT. FINISHED & OPT. WALK UP BASEMENT FLOOR ELEV 'A', 'B' & 'C'
- A21 REAR ELEVATION 'A', 'B' & 'C' WALK UP BASEMENT CONDITION
- CONSTRUCTION NOTES D1
- D2 CONSTRUCTION NOTES
- D3 CONSTRUCTION NOTES

# Areas:

|                             | ELEVAT | ION 'A' |        | ELEVATION 'A' - OPT. FIN<br>BASEMENT CONDITION |        | ELEVATION 'B' |        | ELEVATION 'B' - OPT, FIN<br>BASEMENT CONDITION |        | ELEVATION 'C' |        | C'-OPT, FIN<br>CONDITION |
|-----------------------------|--------|---------|--------|--|--------|---------------|--------|--|--------|---------------|--------|--------------------------|
|                             | SF     | SM      |        |  | SF     | SM            |        |  | SF     | SM            |        |                          |
| OPT. FINISHED BASEMENT PLAN | 0      | 0       | 802.8  | 74.6   | 0      | 0             | 802.8  | 74.6   | 0      | 0             | 802.8  | 74.6                     |
| GROUND FLOOR PLAN           | 1106.7 | 102.8   | 1106.7 | 102.8  | 1115.0 | 103.6         | 1115.0 | 103.6  | 1115.0 | 103.6         | 1115.0 | 103.6                    |
| SECOND FLOOR PLAN           | 1445   | 134.2   | 1445   | 134.2  | 1439.1 | 133.7         | 1439.1 | 133.7  | 1454.3 | 135.1         | 1454.3 | 135.1                    |
| SECOND FLOOR PLAN OTB       | (11.1) | (1.0)   | (11.1) | (1.0)  | (11.1) | (1.0)         | (11.1) | (1.0)  | (11.1) | (1.0)         | (11.1) | (1.0)                    |
| TOTAL AREA                  | 2539.9 | 236     | 3342.7 | 310.6  | 2543   | 236.3         | 3345.8 | 310.9  | 2558.2 | 237.7         | 3361   | 312.3                    |
| COVERAGE INC PORCH          | 1558.8 | 144.8   | 1558.8 | 144.8  | 1588.0 | 147.5         | 1588.0 | 147.5  | 1572.1 | 146.0         | 1572.1 | 146.0                    |
| COVERAGE NOT INC PORCH      | 1515.5 | 140.8   | 1515.5 | 140.8  | 1523.8 | 141.6         | 1523.8 | 141.6  | 1523.8 | 141.6         | 1523.8 | 141.6                    |



Royal Pine Homes Ltd.

Centrefield, Ph. 2



2021-06-04

D. FERRARI

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DATE:

SIGNATURE:

JUNE 3, 2021

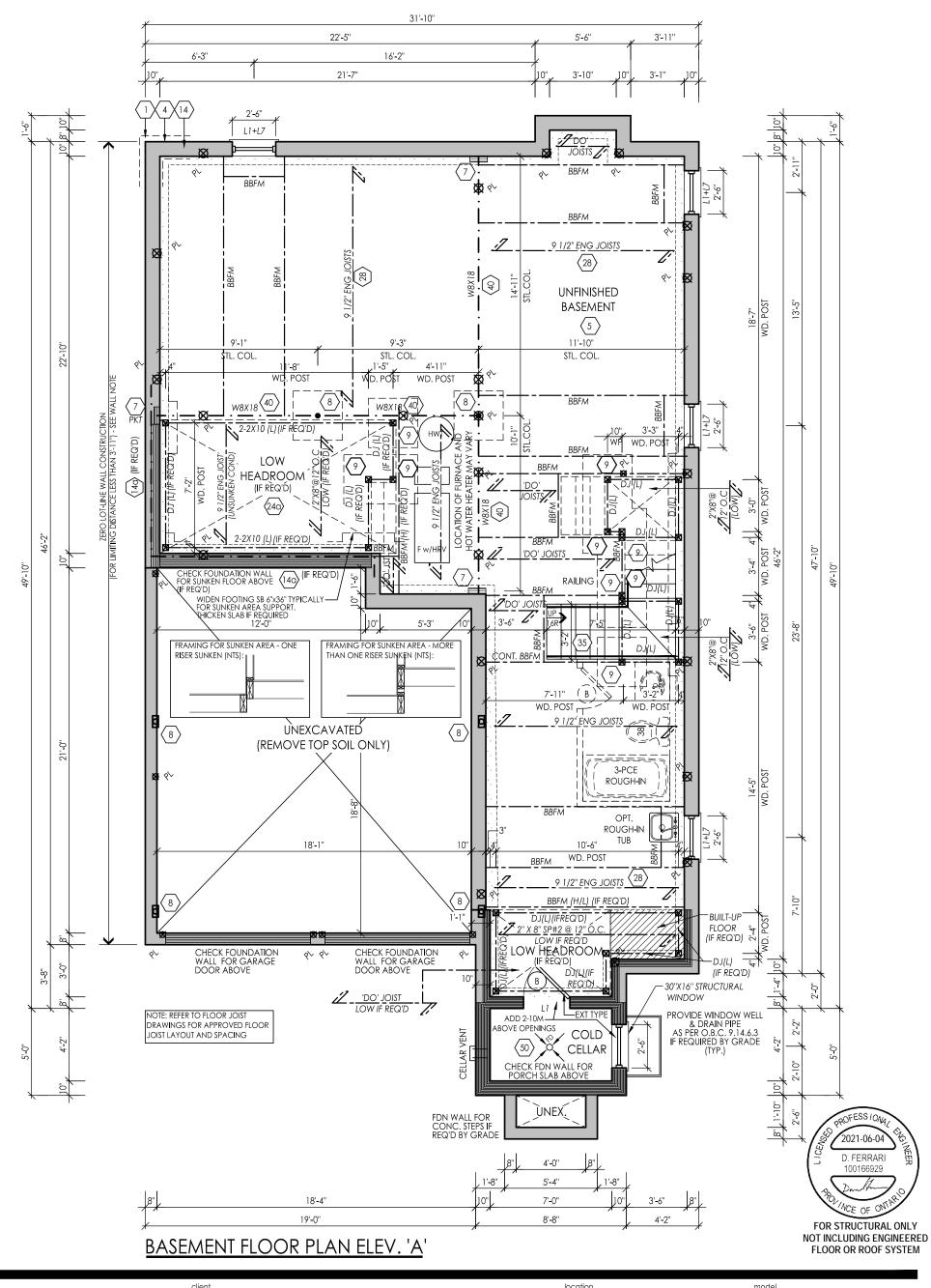
Royal Pine Homes Ltd. Richmond Hill marketing name Centrefield, Ph. 2

| # | revisions                   | date      | dwn | chk | #  | revisions   | date      | dwn | chk |
|---|-----------------------------|-----------|-----|-----|----|---|-----------|-----|-----|
| 3 | ISSUED FOR CLIENT REVIEW    | 17-03-20  | HZ  | MSA | 7  | REV PER ENG COMMENTS                              | 28-Apr-21 | MD  | СМ  |
| 4 | ISSUED FOR CLIENT REVIEW    | 23-4-20   | AD  | MSA | 8  | REVISED PER FLOOR/TRUSS COORD                     | 6-May-21  | MD  | СМ  |
| 5 | ISSUED FOR CLIENT REVIEW    | 20-AUG-20 | KC  | MSA | 9  | ISSUED FOR CLIENT REVIEW                          | 14-May-21 | МD  | СМ  |
| 6 | REVISED PER CLIENT COMMENTS | 17-MAR-21 | MD  | СМ  | 10 | REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT | 3-Jun-21  | МD  | СМ  |



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38-10 project # 3/16" = 1'0" 20005 page



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SIGNATURE:

103017 26995 JUNE 3, 2021

ISSUED FOR CLIENT REVIEW

REVISED PER CLIENT COMMENTS

### Royal Pine Homes Ltd. Richmond Hill project marketing name Centrefield, Ph. 2 date dwn chk # revisions revisions date dwn chk 17-03-20 HZ MSA 7 REV PER ENG COMMENTS ISSUED FOR CLIENT REVIEW 28-Apr-21 MD CM ISSUED FOR CLIENT REVIEW AD MSA 8 REVISED PER FLOOR/TRUSS COORD MD CM 6-May-21

20-AUG-20 KC MSA 9 ISSUED FOR CLIENT REVIEW

17-MAR-21 MD CM 10 REVISED PER ENGINEER COM ISSUED FOR PERMIT

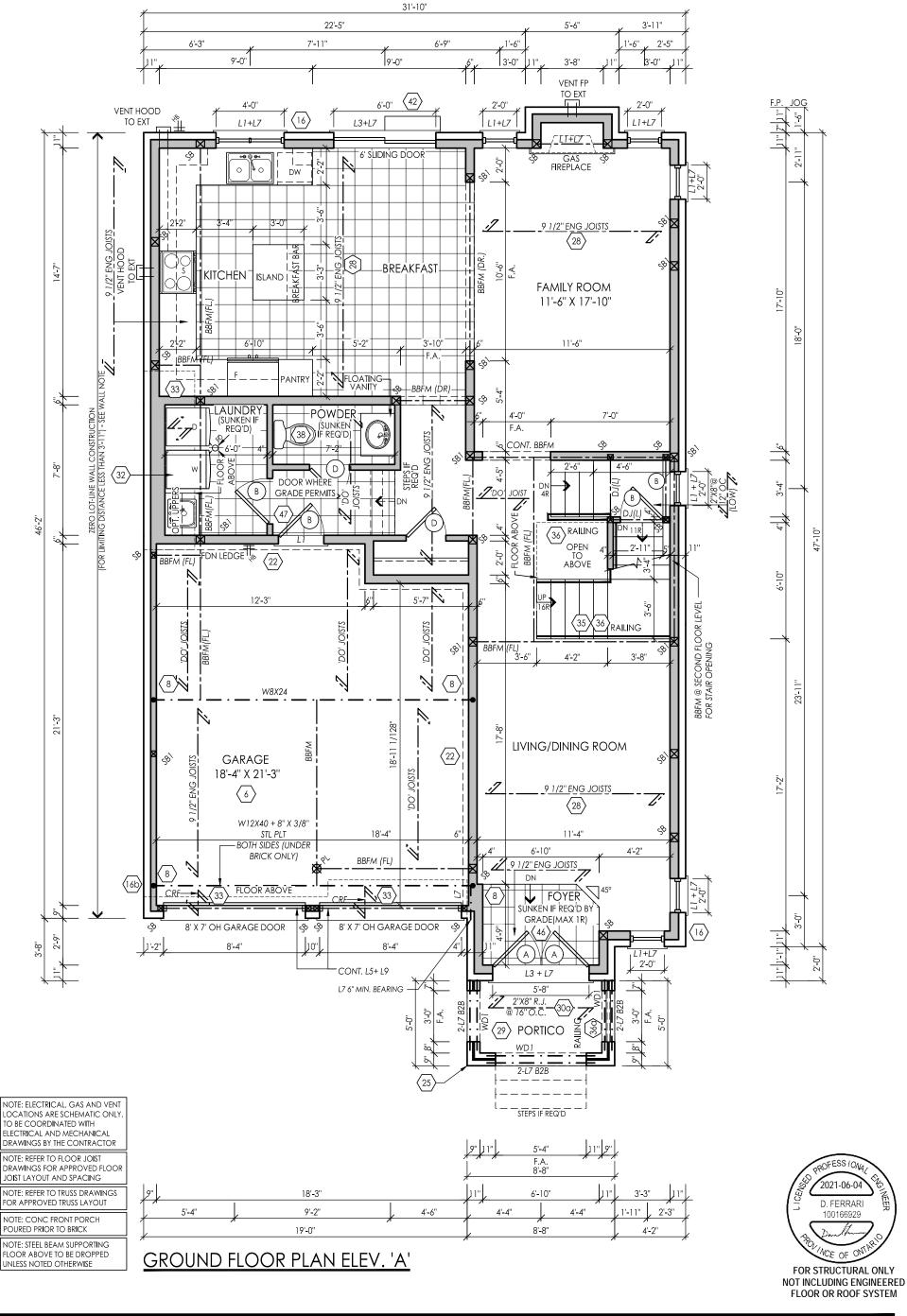


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4-May-21 MD CM

MD CM

|                           | FLOOR OF   | ROOF SYSTEM        |
|---------------------------|------------|--------------------|
| <sup>model</sup><br>38-10 |            |                    |
| scale<br>3/16" = 1'0      | 11         | project #<br>20005 |
| page                      | <br>Д 1    |                    |
| <b>,</b>                  | <b>7</b> I |                    |



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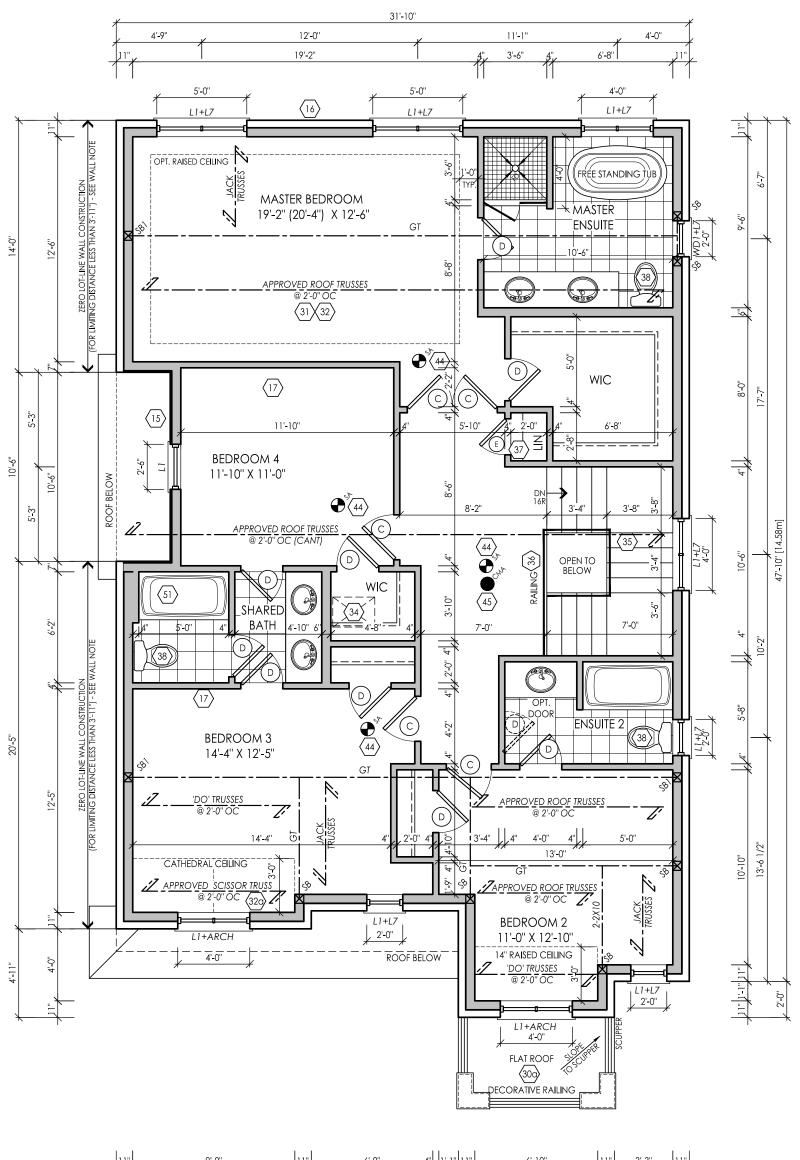
# Royal Pine Homes Ltd. Richmond Hill marketing name Centrefield Ph 2

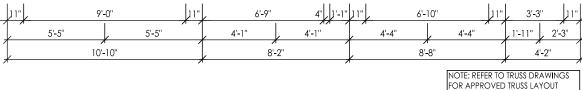
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|                       | FLOOR OR F | ROOF SYSTE         |
|-----------------------|------------|--------------------|
| model<br>38-10        |            |                    |
| scale<br>3/16'' = 1'0 | 11         | project #<br>20005 |
| page                  | <br>42     |                    |





# SECOND FLOOR PLAN ELEV. 'A'

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| l | proje           | yal Pine Homes Lt | d.   |                  |                   |   | F                              | Richmor<br>marketi | nd        |     |
|---|-----------------|-------------------|------|------------------|-------------------|---|--------------------------------|--------------------|-----------|-----|
| ı | Ce              | ntrefield, Ph. 2  |      |                  |                   |   |                                |                    |           |     |
|   | $\frac{Ce}{\#}$ | revisions         | date | dwn              | chk               | # | revisions                      | date               | dwn       | chk |
|   |                 | <u> </u>          | date | dwn<br><i>HZ</i> | chk<br><i>MSA</i> |   | revisions REV PER ENG COMMENTS | date<br>28-Apr-21  | dwn<br>MD | сhk |

20-AUG-20 KC MSA 9 ISSUED FOR CLIENT REVIEW

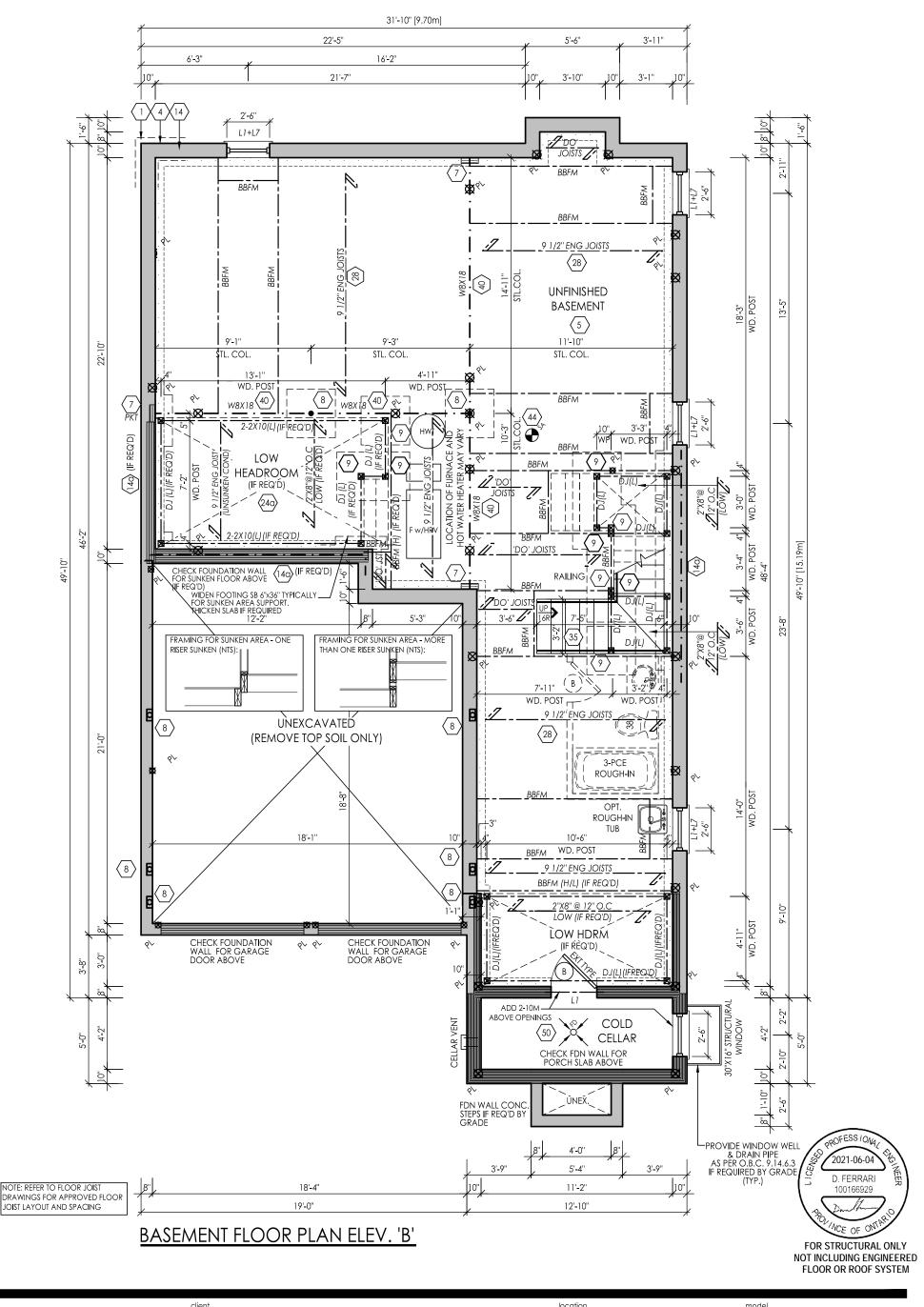
CM 10 REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT



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4-May-21 MD CM

|   |                       | FLOOR OR F | ROOF SYSTEM        |
|---|-----------------------|------------|--------------------|
| I | model<br>38-10        |            |                    |
|   | scale<br>3/16'' = 1'0 | )''        | project #<br>20005 |
|   | page                  | 43         |                    |



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FIRM BCIN:
DATE:

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Royal Pine Homes Ltd. Richmond Hill project marketing name Centrefield, Ph. 2 revisions date dwn chk # revisions date dwn chk ISSUED FOR CLIENT REVIEW 20-AUG-20 KC MSA 9 ISSUED FOR CLIENT REVIEW 14-May-21 MD CM MD CM 10 REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT MD СМ REVISED PER CLIENT COMMENTS 7-MAR-21 3-Jun-21 REV PER ENG COMMENTS MD CM

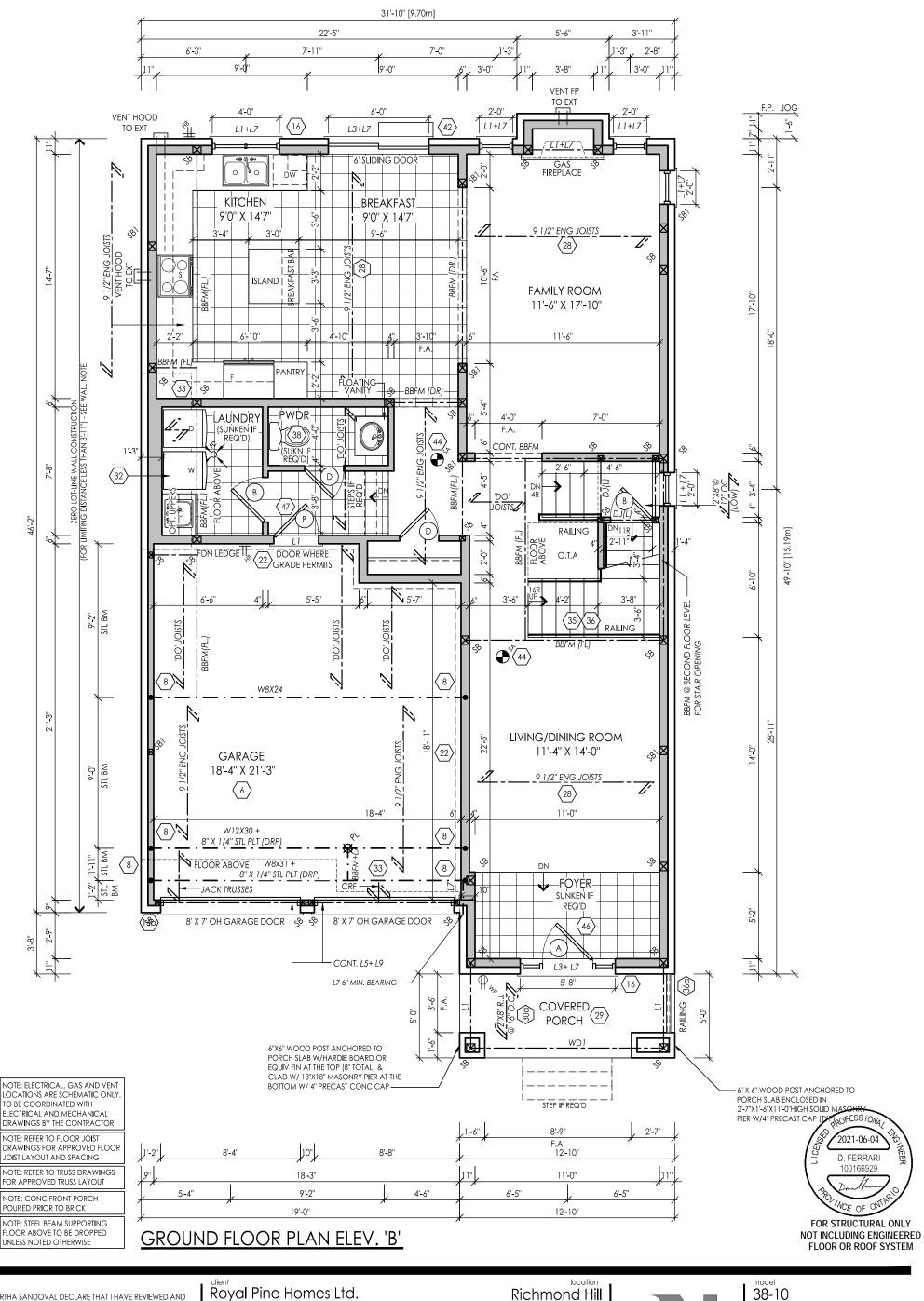
MD CM



38-10
scale project # 20005

page

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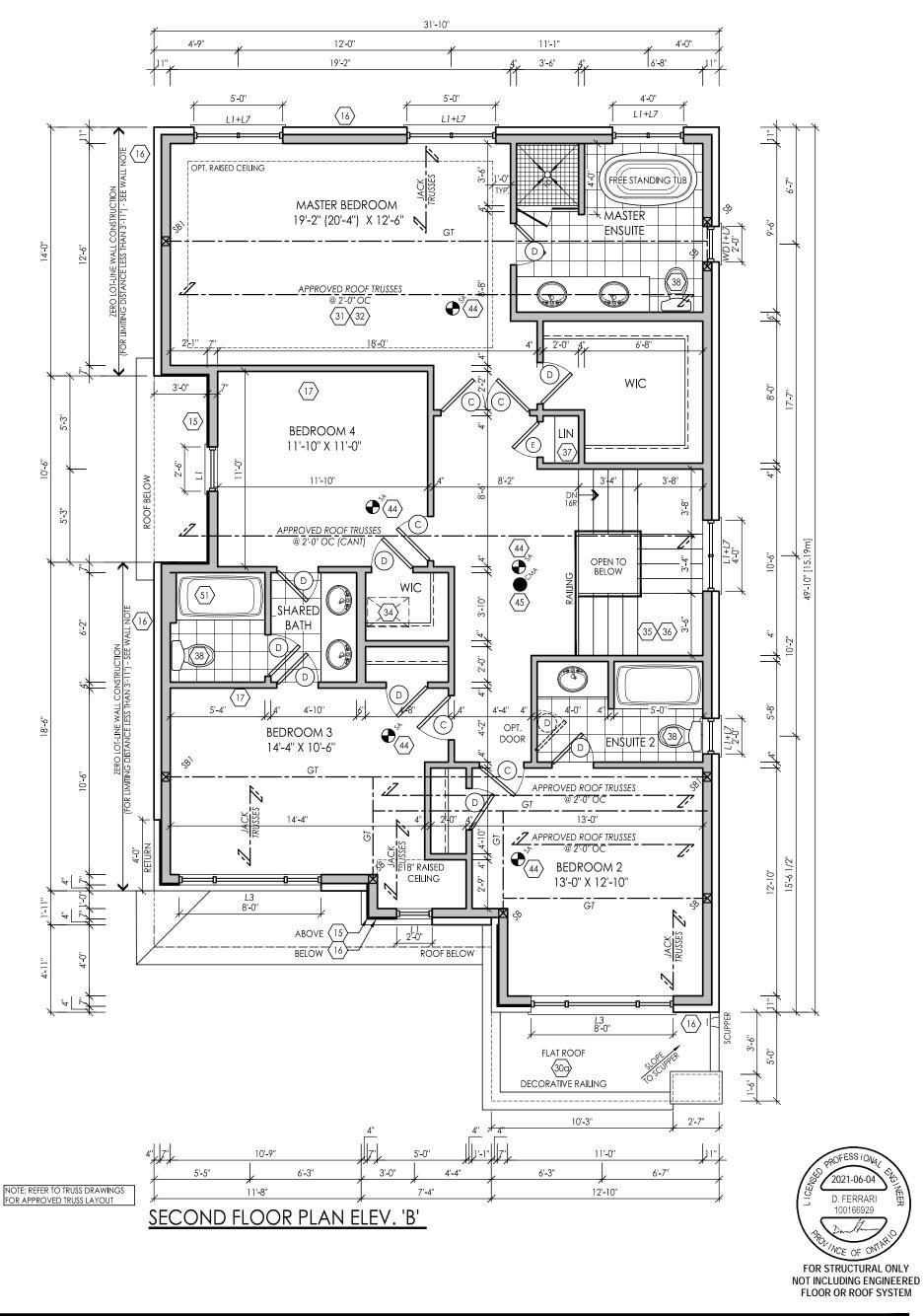
# Richmond Hill marketing name Centrefield, Ph. 2

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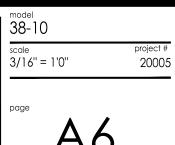
| Royal Pine Homes Ltd. |                             |                        |     |     |    |   | hmor                  |     | ation<br>Hill |
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| Centrefield, Ph. 2    |                             |                        |     |     |    |   | ng no                 | ame |               |
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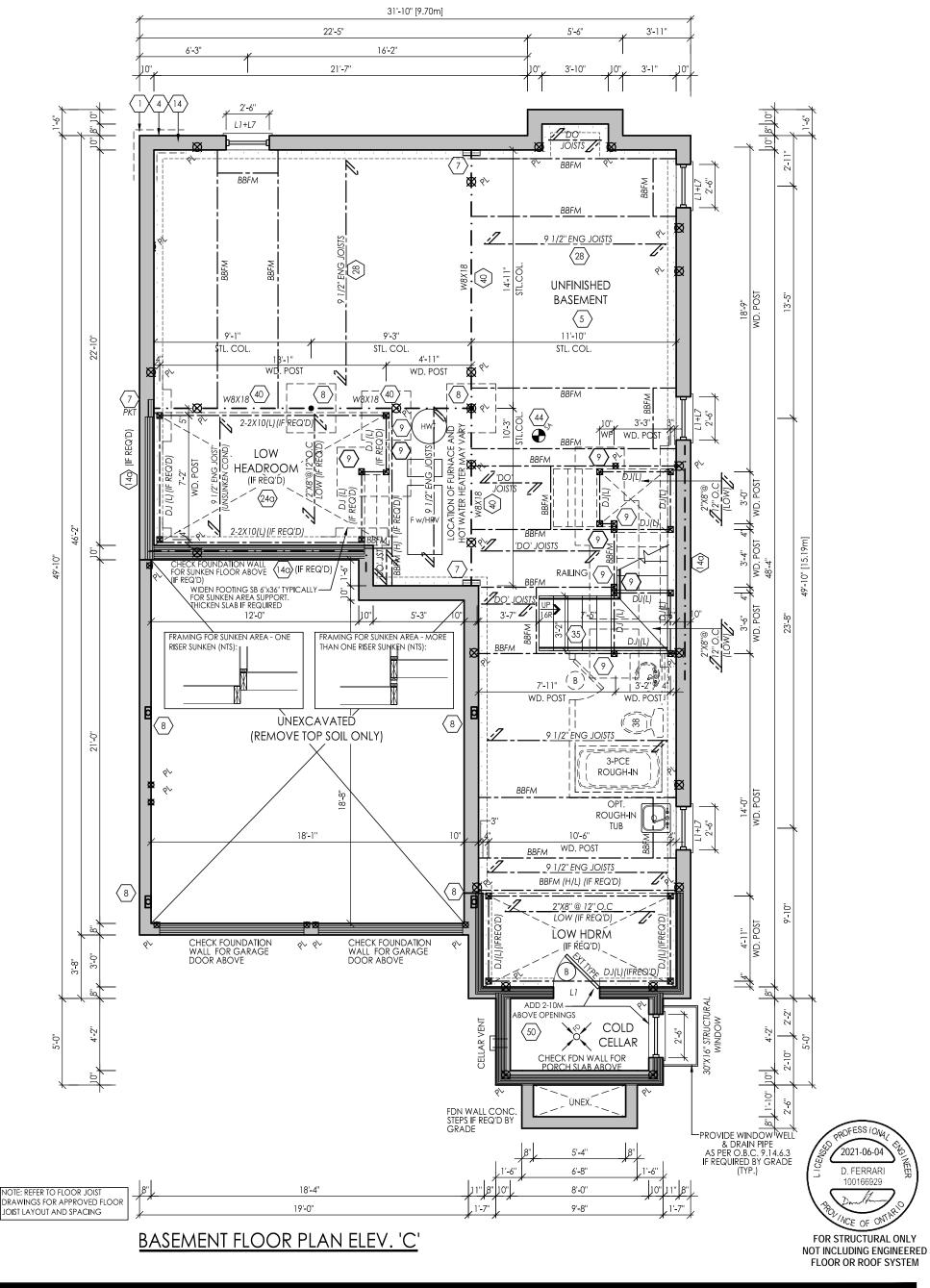
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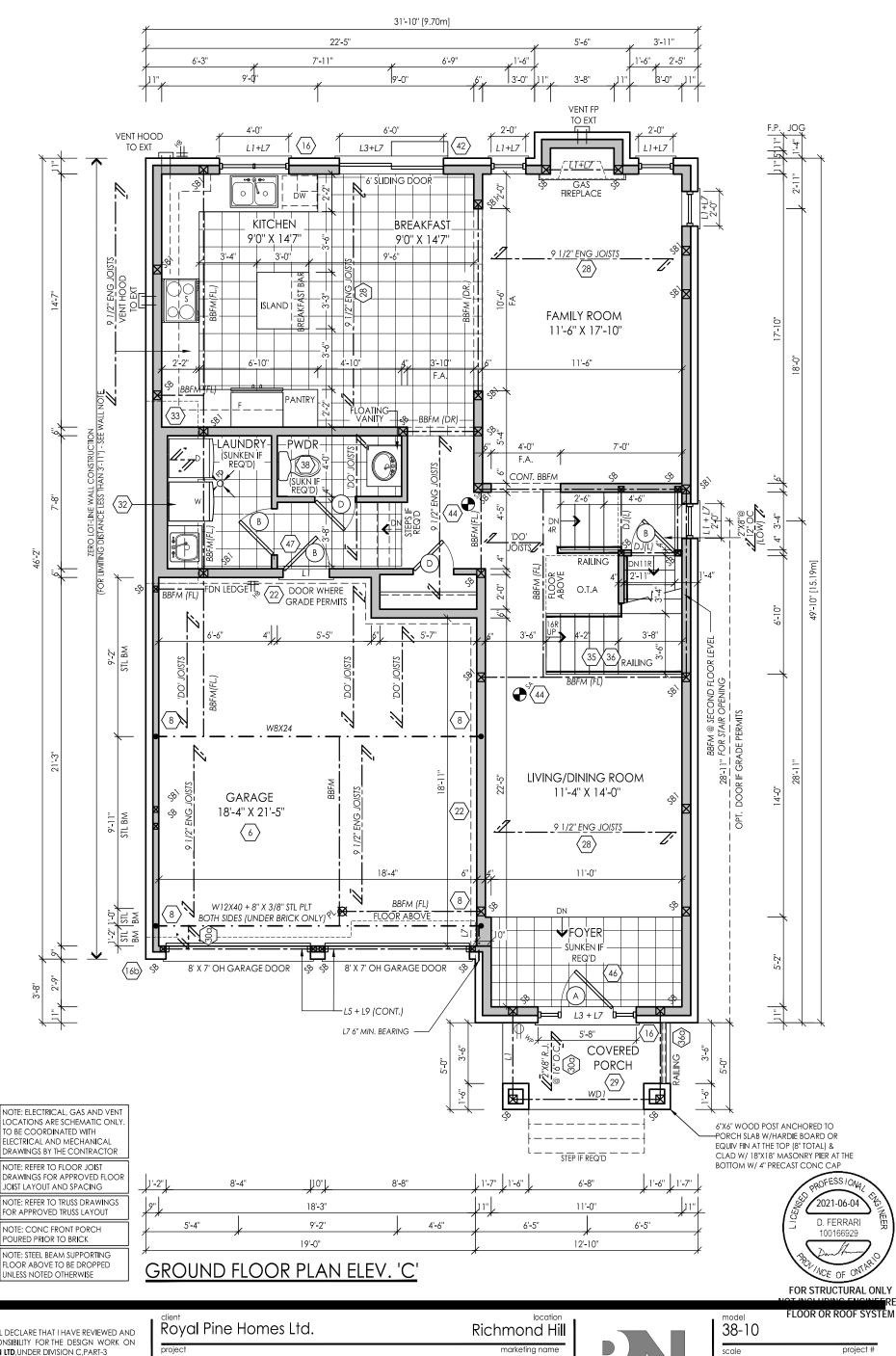
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| 38-10                 |                    |
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| scale<br>3/16" = 1'0" | project #<br>20005 |
|                       |                    |
| page                  |                    |
| A/                    |                    |



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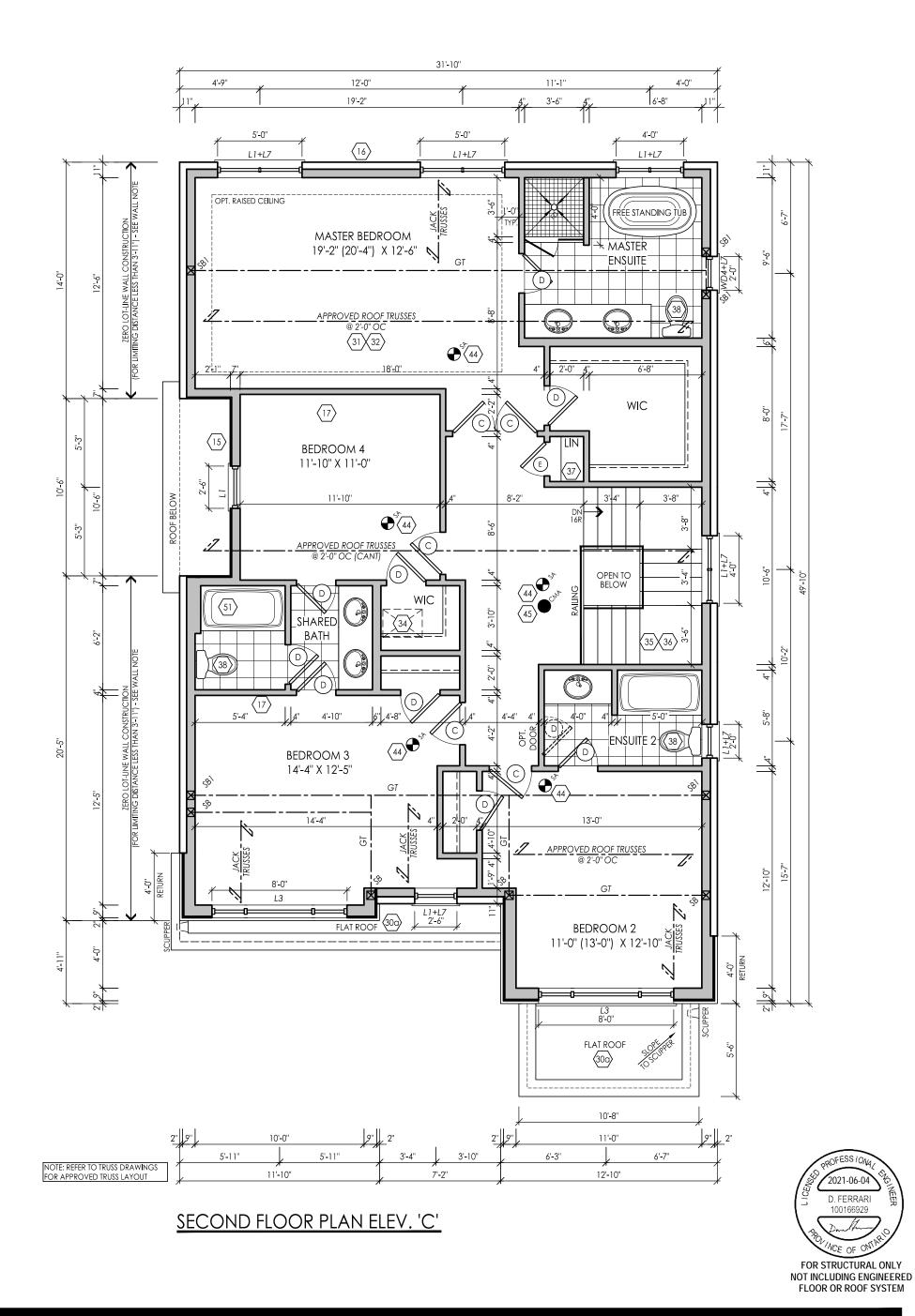
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Centrefield, Ph. 2

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scale project # 3/16" = 1'0" 20005 page



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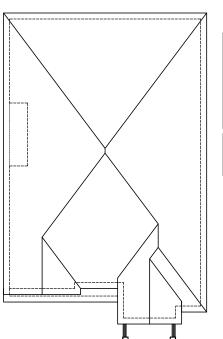


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38-10

scale
3/16" = 1'0"

page



NOTE: ALL CONVENTIONAL ROOF FRAMING TO

TOP OF SLAB

FRONT ELEVATION 'A'





# GROSS GLAZING AREA-ELEV A-STD

| TOTAL PERIPHERAL WAL   | L AREA | 3443.27 SF | 319.89 m² |
|------------------------|--------|------------|-----------|
| FRONT GLAZING AREA     |        | 110.73sf   | 10.29 m²  |
| LEFT SIDE GLAZING ARE. | A      | 10.83 sf   | 1.01 m²   |
| RIGHT SIDE GLAZING AF  | REA    | 80.00 sf   | 7.43 m²   |
| REAR GLAZING AREA      |        | 157.00 sf  | 14.59 m²  |
| TOTAL GLAZING AREA     |        | 358.56 sf  | 33.31 m²  |

TOTAL GLAZING PERCENTAGE

TOP OF SLAB

10.41 %

38-10 scale 3/16" = 1

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Hq. Homes

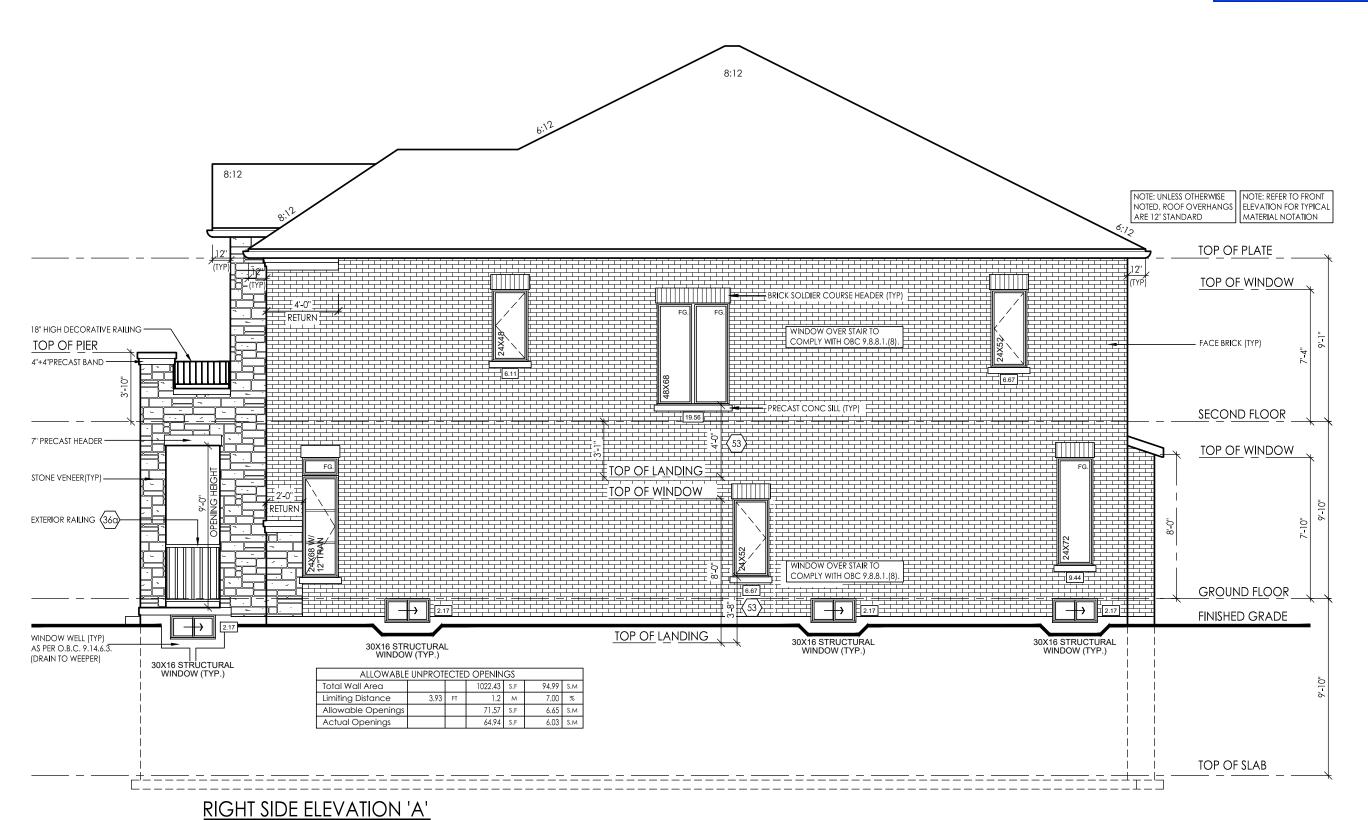
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project
Centrefield, Ph. 2

3/16" = 1'0"

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INSION C.PART-3
5 CODE. I AM QUALIFED
E APPROPRIATE CLASSES /



# REAR ELEVATION 'A', 'B' & 'C'

NOTE: UNLESS OTHERWISE NOTED, ROOF OVERHANGS ARE 12" STANDARD

NOTE: REFER TO FRONT ELEVATION FOR TYPICAL MATERIAL NOTATION

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Richmond Hill

G S S

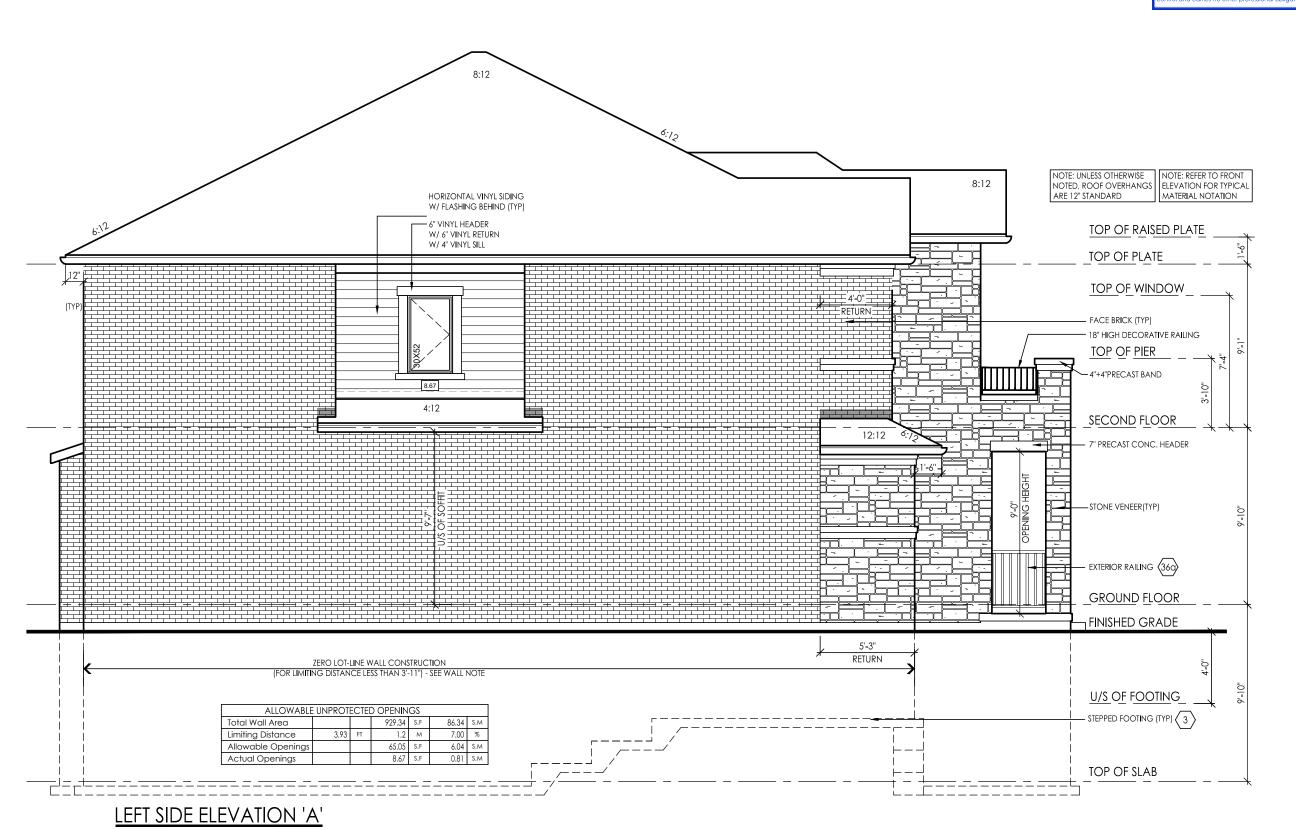
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3/16" = 1'0"

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FIRM BCIN: 28995



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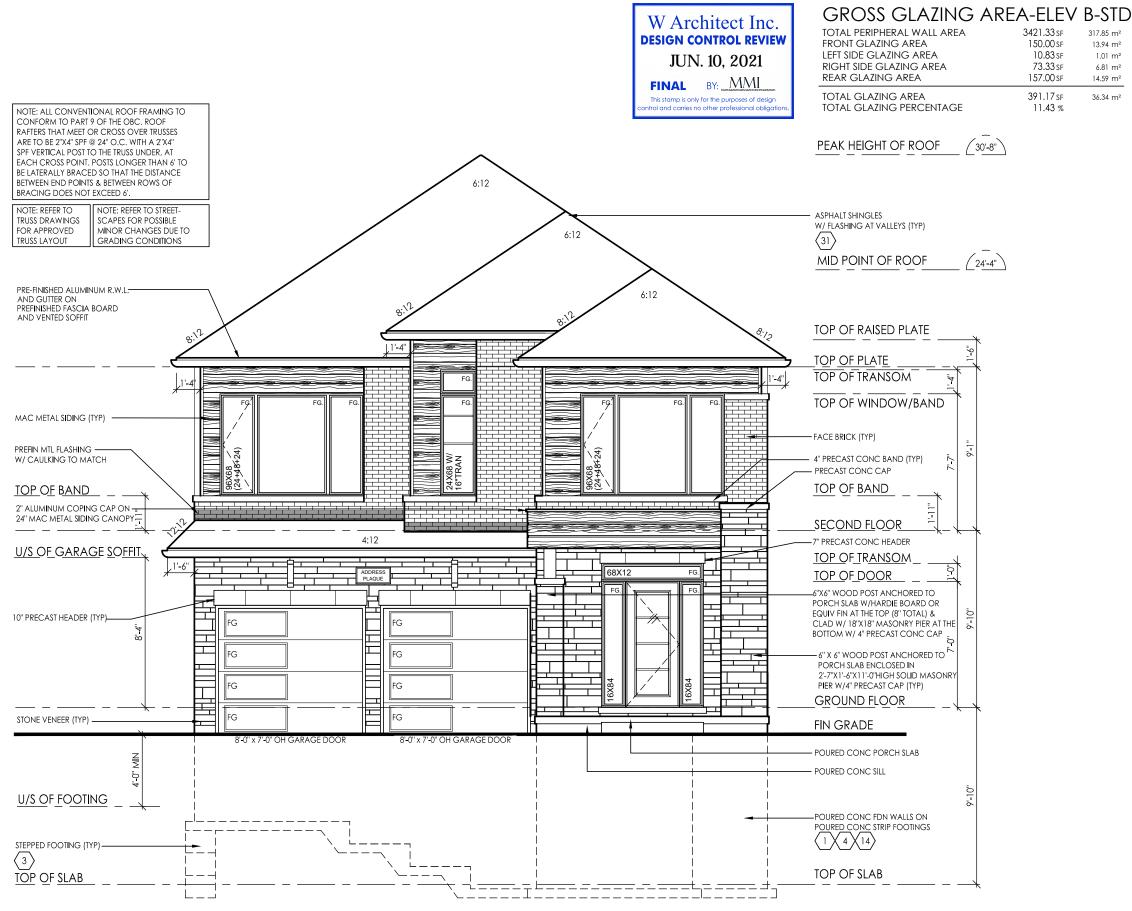
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38-10 scale 3/16" = 1 ك S 

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Richmond

13.94 m²

1.01 m<sup>2</sup>

6.81 m<sup>2</sup>

14.59 m²

36.34 m²

10.83 sf

73.33 sf

11.43 %

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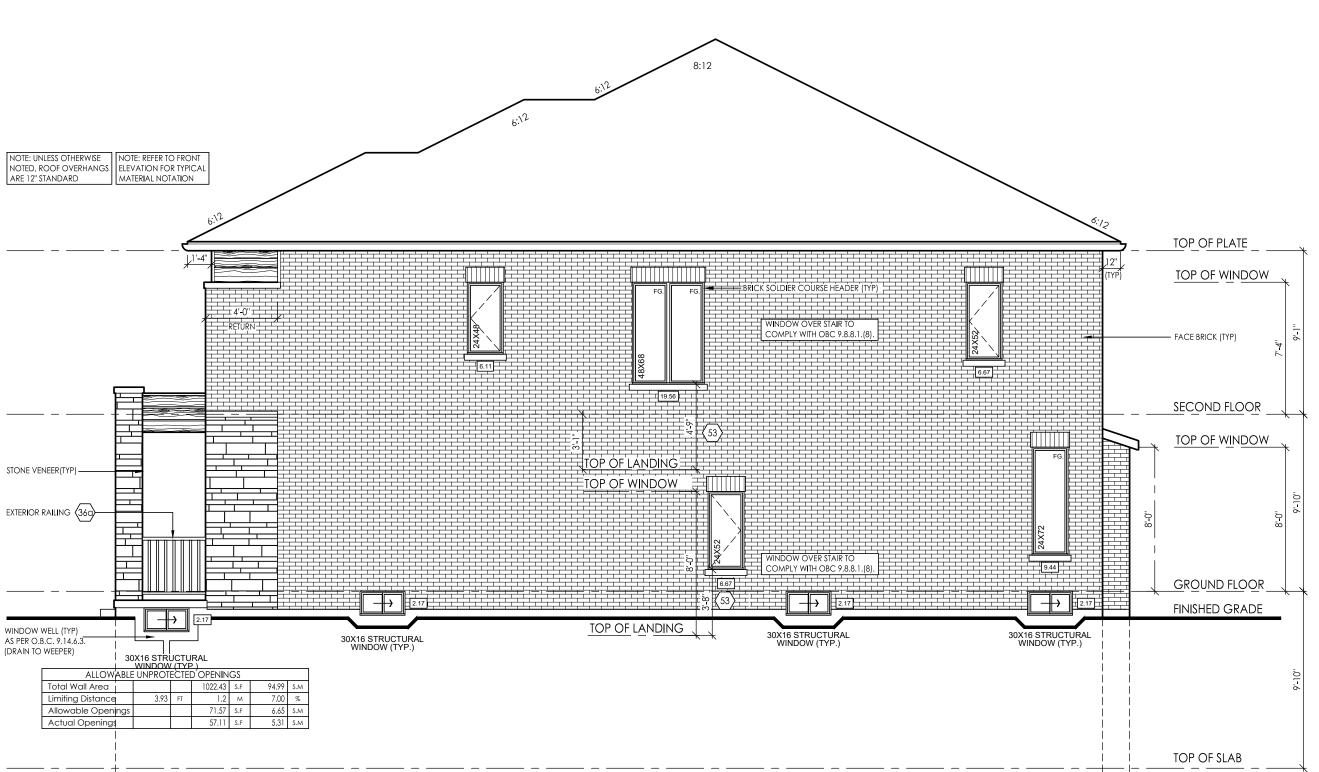
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MARTHA SANDOVAL DECLA AKEN DESIGN RESPONSIBILIT HALF OF RN **DESIGN ITD.**UN UBSECTION-3.2.4 OF THE BUI ND THE FIRM IS REGISTERE ATGORIES. VALIHED DESIGNER BCIN:

FRONT ELEVATION 'B'

**ROOF PLAN ELEV 'B'** 





RIGHT SIDE ELEVATION 'B'



20005

3/16" = 1'0"

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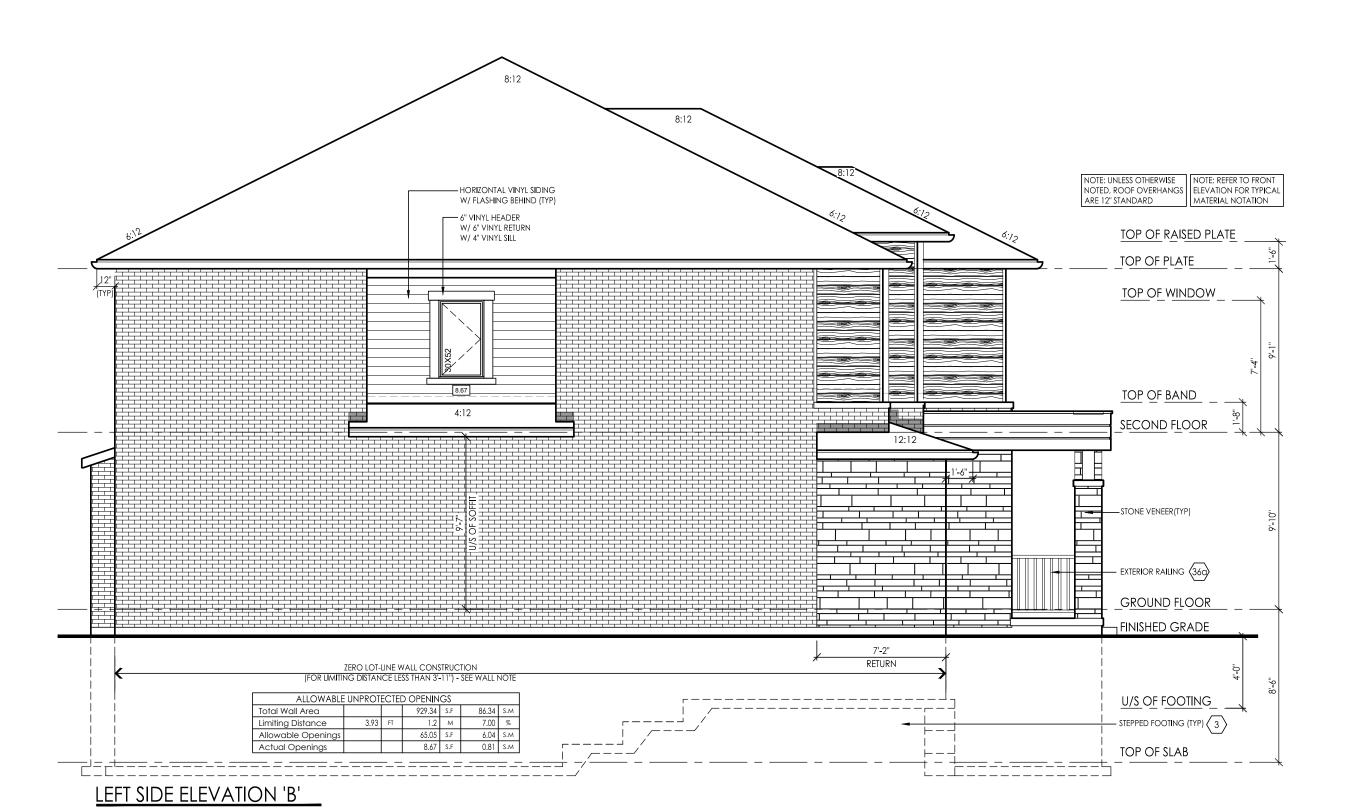
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3/16" = 1'0"

I. MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LID.** UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

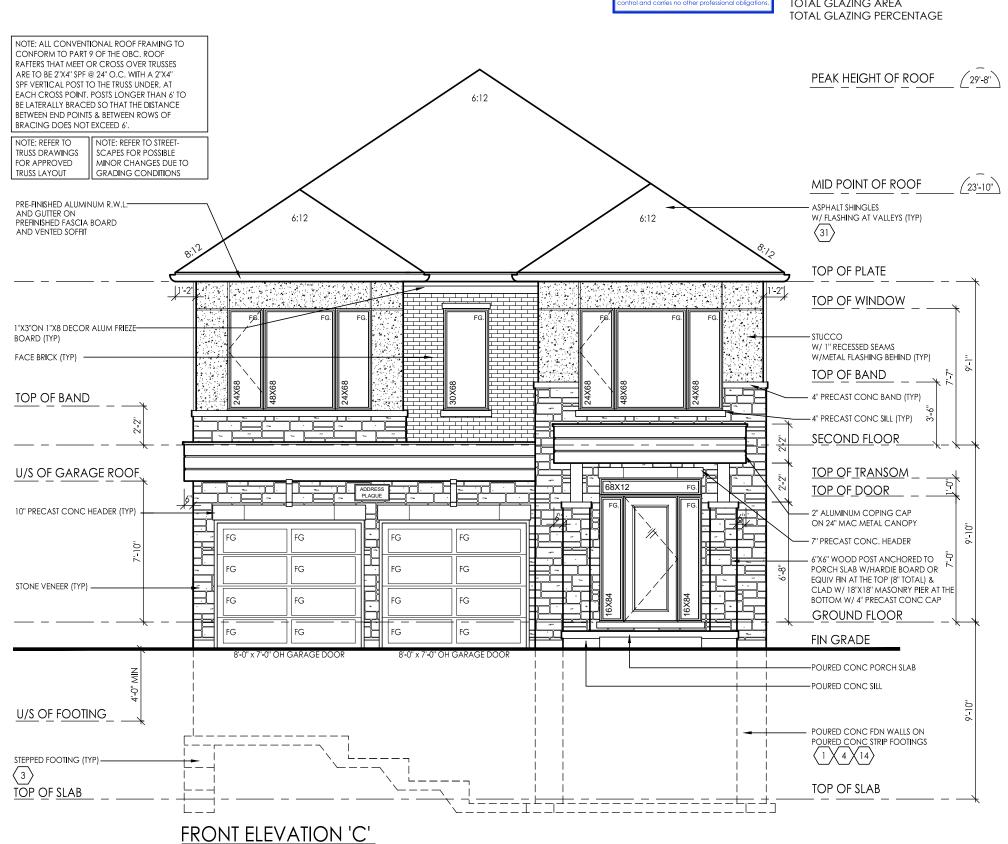


# GROSS GLAZING AREA-ELEV C-STD

|                            | ——— .      |           |
|----------------------------|------------|-----------|
| TOTAL PERIPHERAL WALL AREA | 3443.26 SF | 319.89 m² |
| FRONT GLAZING AREA         | 180.11 sf  | 16.73 m²  |
| LEFT SIDE GLAZING AREA     | 10.83 sf   | 1.01 m²   |
| RIGHT SIDE GLAZING AREA    | 73.33 sf   | 6.81 m²   |
| REAR GLAZING AREA          | 157.00 sf  | 14.59 m²  |
| TOTAL GLAZING AREA         | 421.28 SF  | 39.14 m²  |

12.23 %

ROOF PLAN ELEV 'C'



Hq. Homes | Royal Pine Ho Project Centrefield, I

38-10 scale 3/16" = 1

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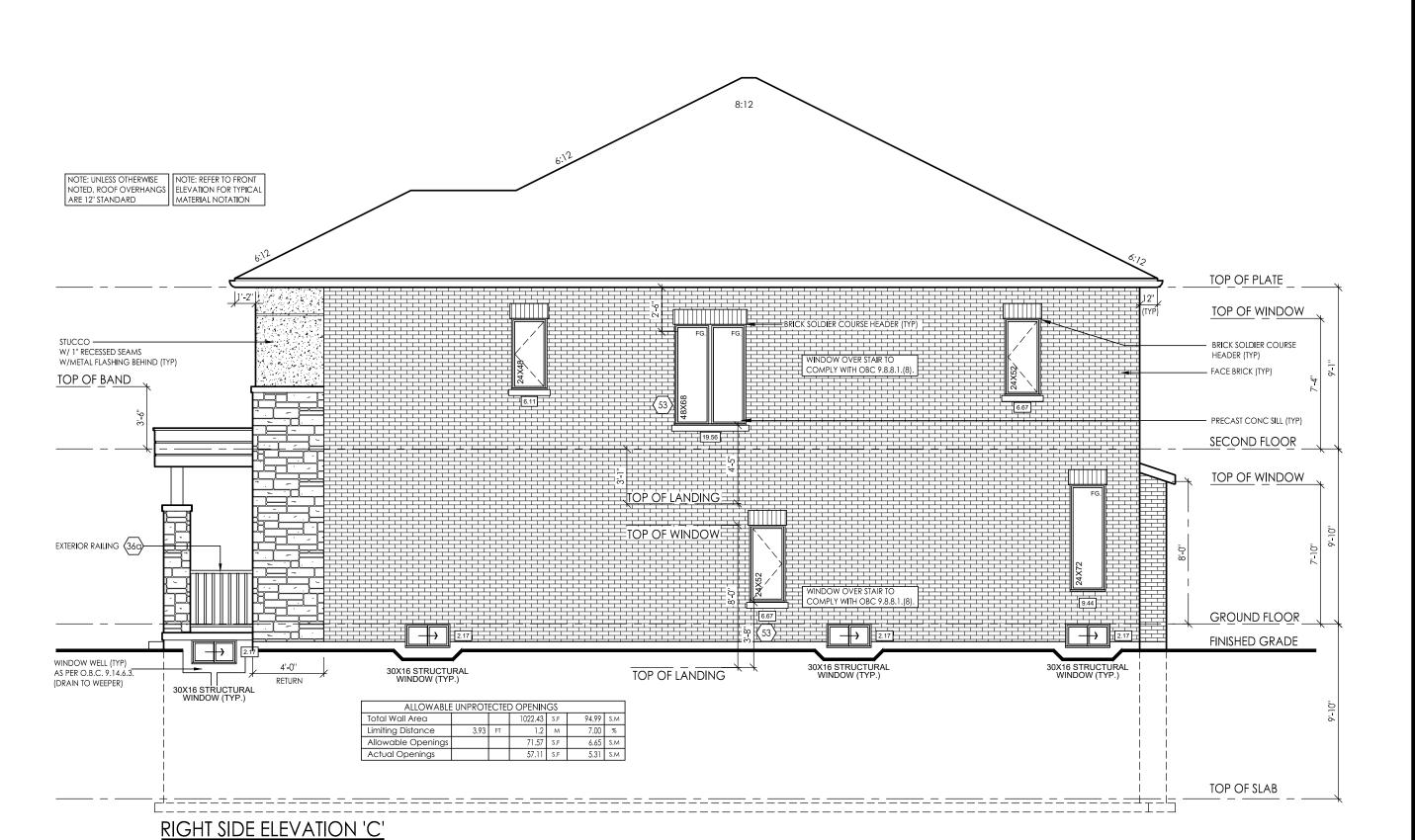
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REVIEWED AND IGN WORK ON PART-3 I AM QUALIFIED PRIATE CLASSES /





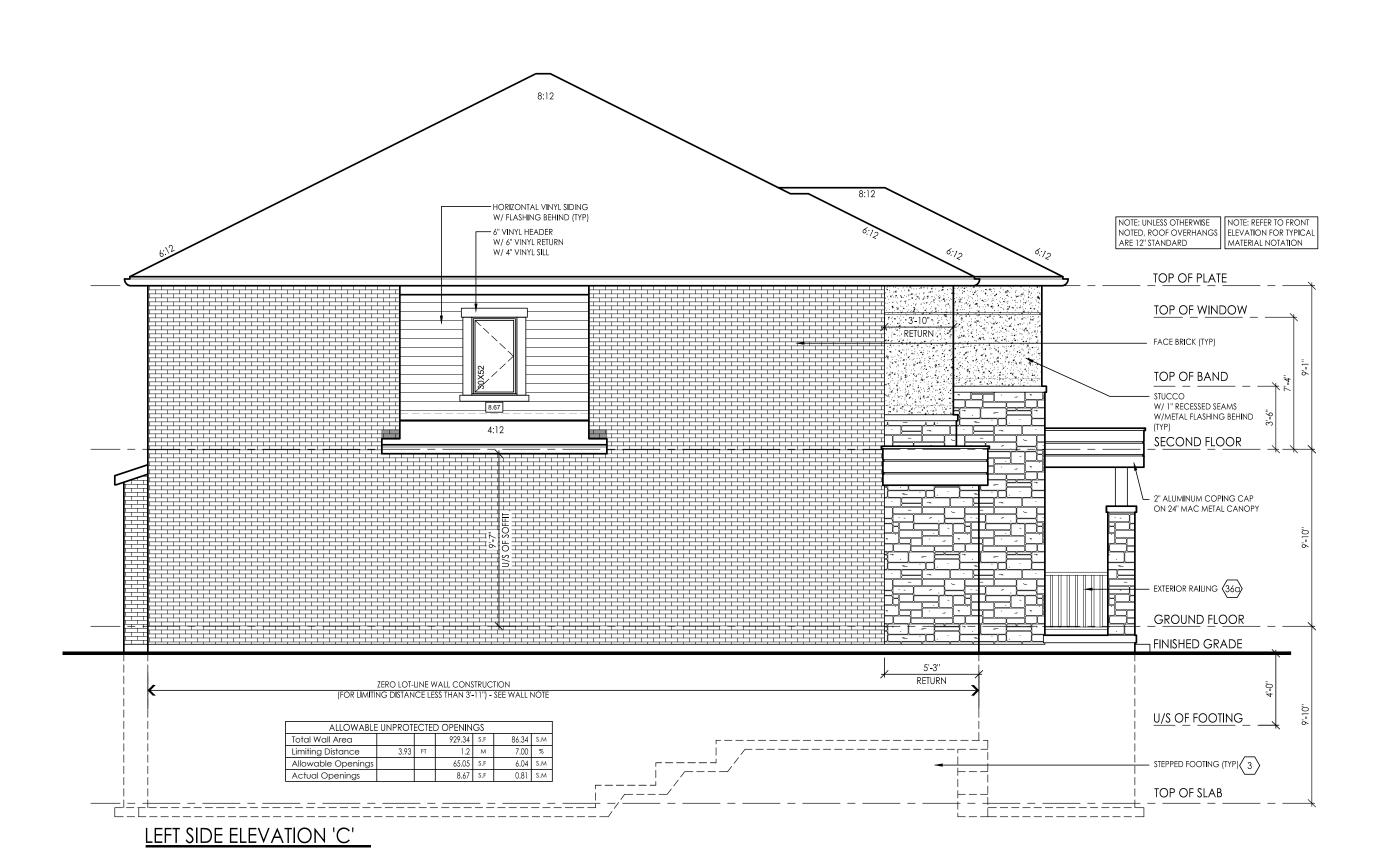
Richmond Hill Royal Pine Homes Ltd.

project
Centrefield, Ph. 2

3/16" = 1'0"

20005

MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND AKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON EHALF OF RN DESIGN LTD. UNDER DIVISION C. PART-3 USSCTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED IN THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / SATEGORIES.



Richmond Hill

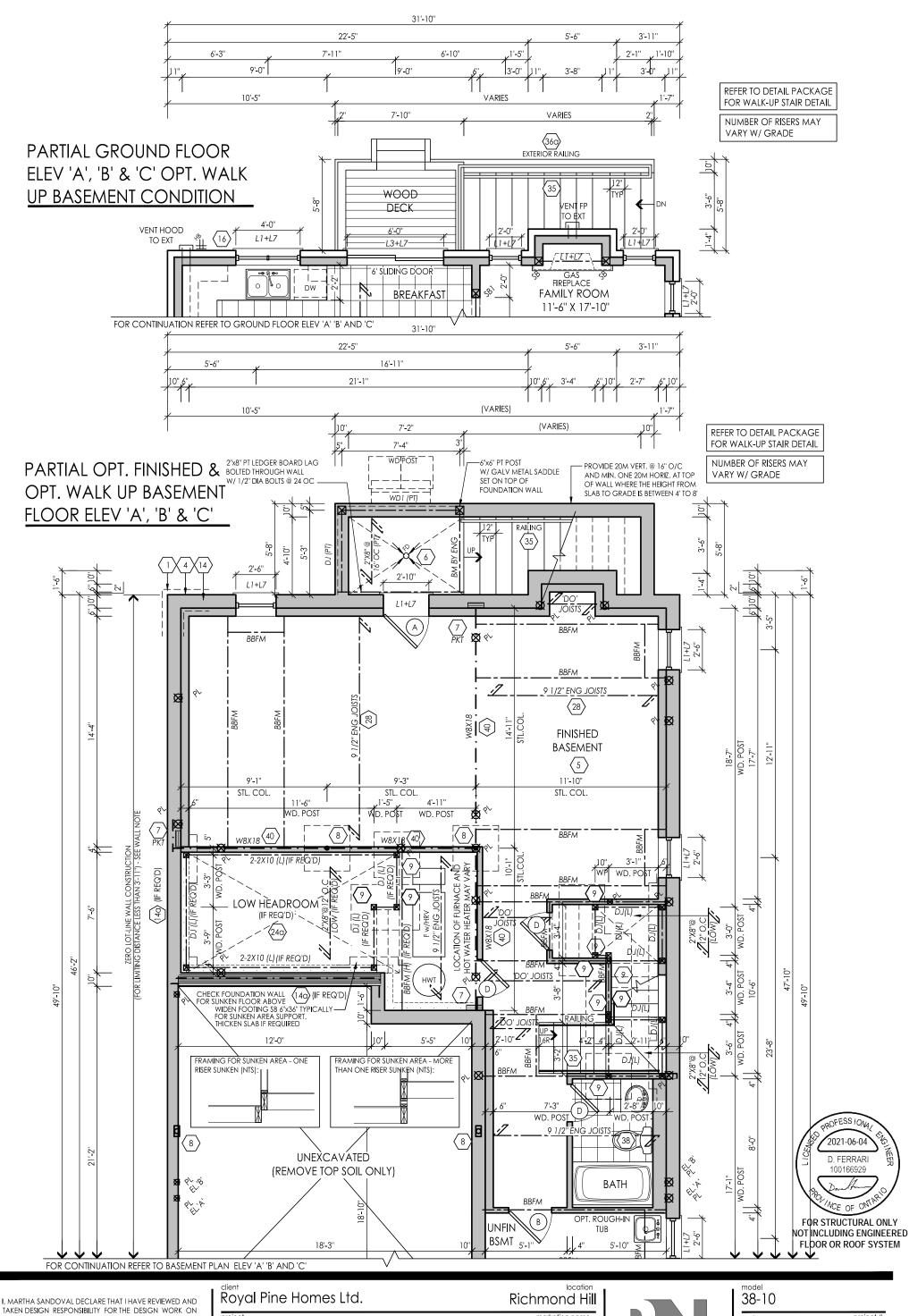
20005

3/16" = 1'0"

Royal Pine Homes Ltd.

project
Centrefield, Ph. 2

MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND AREN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON EHALF OF RN DESIGN LTD. UNDER DIVISION C. PART-3 UBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / AREGORIES.



TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD, UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES.

QUALIFIED DESIGNER BCIN:

JUNE 3, 2021

ISSUED FOR CLIENT REVIEW

DATE:

SIGNATURE:

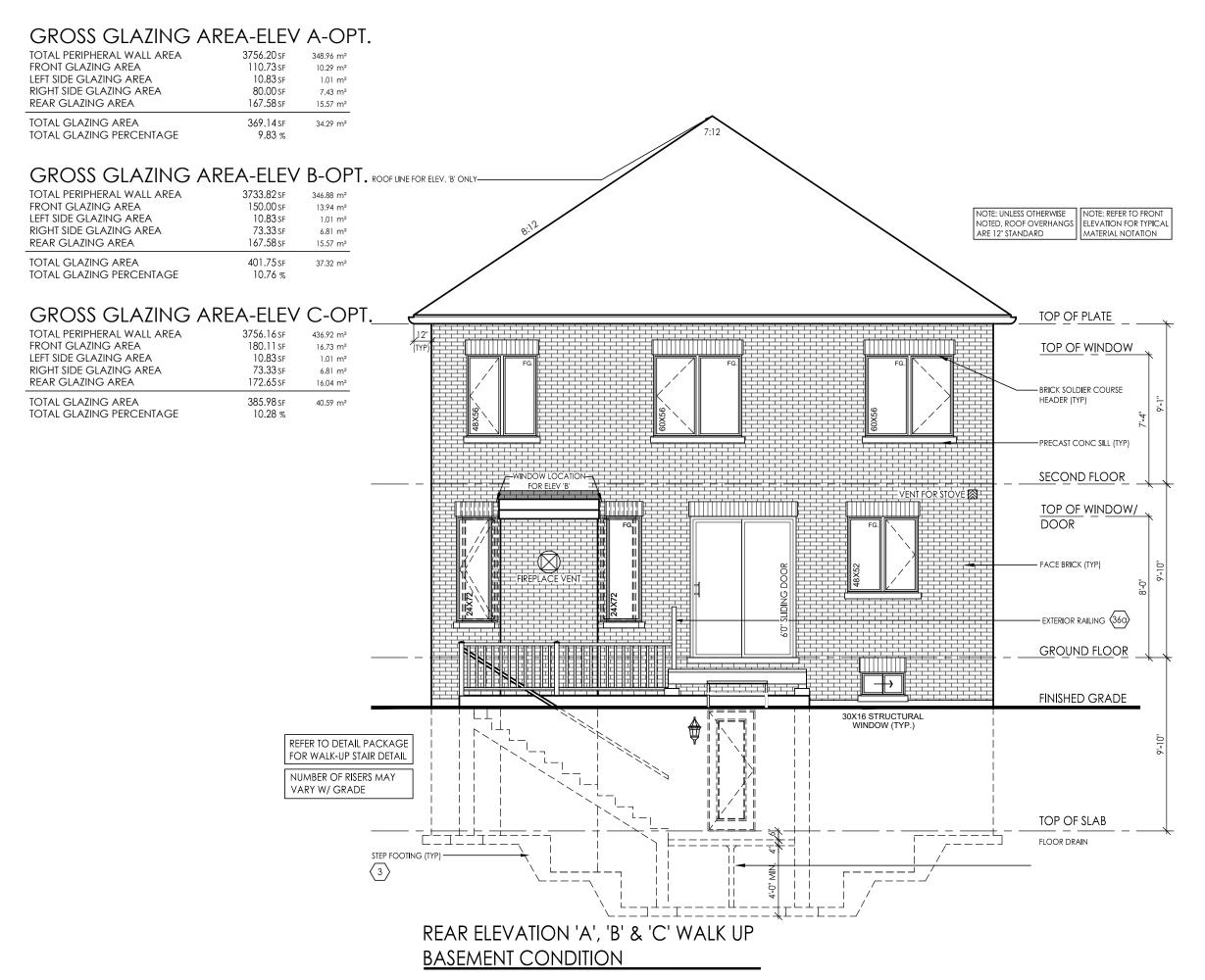
marketing name Centrefield, Ph. 2 date dwn chk # revisions revisions date dwn chk 20-AUG-20 KC MSA 10 REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT ISSUED FOR CLIENT REVIEW 3-Jun-21 MD CM MD CM REVISED PER CLIENT COMMENTS 7-MAR-21

MD CM

MD CM

www.rndesign.com Tel: 905-738-3177 WWW.THEPLUSGROUP.CA

project # 3/16" = 1'0" 20005





|                | 0            | WWW.RNDESIGN.COM<br>Tel: 905-738-3177 |  |  |  |
|----------------|--------------|---------------------------------------|--|--|--|
| me             | chk          | OM<br>O                               |  |  |  |
| marketing name | dwn          | MD                                    |  |  |  |
|                | date dwn chk | 3-Jun-21 MD CM                        |  |  |  |
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38-10 scale 3/16" = 1

| 2              | Royal Pine Homes Ltd.         | ö.              |    |     |    | Rich  | Richmond Hill  | Б     | 壹   |
|----------------|-------------------------------|-----------------|----|-----|----|---|----------------|-------|-----|
| project<br>Cer | oroject<br>Centrefield, Ph. 2 |                 |    |     |    |   | marketing name | ing n | ame |
| #              | revisions                     | date dwn chk #  | ۲  | 양   | #  | revisions   | date dwn chk   | ₽     | chk |
|                | 7 ISSUED FOR CLIENT REVIEW    | 20-AUG-20       | KC | MSA | 10 | 20-AUG-20 KC MSA 10 REVISED FOR ENGINEER COMMENTS & | 3-Jun-21 MD CM | MD    | S   |
| 9              | 6 REVISED PER CLIENT COMMENTS | 17-MAR-21 MD CM | МД | CM  |    |   |                |       |     |
| 7              | 7 REV PER ENG COMMENTS        | 28-4pr-21 MD CM | ИD | CM  |    |   |                |       |     |
| ٥              | 9 ISSUED FOR CLIENT REVIEW    | 14:MOY-21 MD CM | MD | CM  |    |   |                |       |     |

### PERFORMANCE PACKAGE - OBC 2012 - 2017 ENACTMENT (9) WOOD COLUMN:

(UNLESS OTHERWISE NOTFO)

-ALL CONSTRUCTION TO CONFORM TO THE ONTARIO Building code (0.8.C.) and all other codes and local authorities having jurisdiction.

-ALL DIMENSIONS GIVEN FIRST IN IMPERIAL FOLLOWED BY METRIC.

-THERMAL RESISTANCE VALUES BASED ON ZONE 1

### **FOOTINGS / SLABS:**

**TYPICAL STRIP FOOTING:** 

O.B.C. 9.15.3.

-BASED ON 16'-1"(4.9m) MAX, SUPPORTED JOIST LENGTH -MIN. 2200psi (15MPa) CONCRETE AFTER 28 DAYS -SHALL REST ON UNDISTURBED SOIL, ROCK OR COMPACTED GRANULAR FILL W/ MIN. 10.9psi (75kPa) BEARING CAPACITY
-FTG. TO HAVE CONTINUOUS KEY

-FTG. SIZES MAY BE REDUCED FOR SOILS W/ GREATER BEARING CAPACITY (AS PER SOILS ENGINEERING REPORT)
-REFER TO WORKING DRAWINGS FOR SPECIFIC SIZES THAT MAY SUPERSEDE

NOTES #1 & #2 FOR FOOTING SIZES

1 TYPICAL STRIP FOOTING: (EXTERIOR WALLS)

-FTG. TO EXTEND MIN. 4'-0" (1200mm) BELOW GRADE -1 STOREY - 13" X 4" -2 STOREY - 19" X 6" (330mm X 100mm) (485mm X 155mm) BRICK VENEER

-3 STOREY - 26" X 9" (660mm X 230mm) SIDING--1 STOREY - 10" X 4"

(255mm X 100mm) -2 STOREY - 14" X 4" -3 STOREY - 18" X 5" (360mm X 100mm) (460mm X 130mm)

2) TYPICAL STRIP FOOTING: (INTERIOR BEARING WALLS)

O.B.C. 9.15.3.6. -1 STOREY MASONRY (410mm X 100mm) -1 STOREY STUD -2 STOREY MASONRY - 12" X 4" - 26" X 9" (305mm X 100mm) (650mmX 230mm) -2 STOREY STUD - 18" X 5" (450mm X 130mm) -3 STOREY MASONRY - 36" X 14" (900mm X 360mm) -3 STOREY STUD - 24" X 8" (600mm X 200mm)

 $\sqrt{3}$  STEP FOOTING: O.B.C. 9.15.3.9.

-23 5/8" (600mm) MAX. VERTICAL RISE & 23 5/8" (600mm) MIN. HORIZONTAL RUN.

DRAINAGE TILE OR PIPE: O.B.C. 9.14.3.

-4" (100mm) MIN. DIA. LAID ON UNDISTURBED OR WELL COMPACTED SOIL W/ TOP OF TILE OR PIPE TO BE BELOW BOTTOM OF FLR. SLAB.
-COVER TOP & SIDES OF TILE OR PIPE W/ 5 7/8" (150mm) OF CRUSHED STONE OR OTHER COURSE CLEAN GRANULAR MATERIAL.
-TILE SHALL DRAIN TO A SEWER, DRAINAGE DITCH, OR DRY WELL.

5 BASEMENT SLAB:

O.B.C. 9.13. & 9.16. -3" (75mm) CONCRETE SLAB

-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5.

-220093 (13/M u) ATTEX 20 DATS - 0.05.C. 7/10.4.0. -DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.

-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS -4" (100mm) OF COURSE GRANULAR MATERIAL

O.B.C. 9.13.3.

-R10 (RSI 1.76) INSULATION AT PERIMETER OF SLAB WHERE GRADE IS WITHIN 23-1/2" (600mm) OF BASEMENT SLAB EDGE. INSULATION TO EXTEND TO NOT LESS THAN 23-1/2" (600mm) BELOW EXTERIOR GRADE LEVEL (OBC SB-12 -

3.1.1.7 (5))
- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

# SLAB ON GROUND:

-3" (75mm) CONCRETE SLAB - O.B.C. 9.16.4.3.

-2200psi (15MPa) AFTER 28 DAYS - O.B.C. 9.16.4.5. -DAMPPROOF BELOW SLAB W/ MIN. 0.006" (0.15mm) POLYETHYLENE OR TYPE 'S' ROLL ROOFING W/ 4" (100mm) LAPPED JOINTS.

-DAMPPROOFING MAY BE OMITTED IF CONCRETE HAS MIN. 3600psi(25MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS -R10 (RSI 1.76) INSULATION UNDER ENTIRE SLAB WHERE THE ENTIRE SLAB IS

WITHIN 23-1/2" (600mm) OF GRADE. (OBC SB-12 3.1.1.7.(6))
-4" (100mm) OF COURSE GRANULAR MATERIAL

-PROVIDE BOND BREAKING MATERIAL BETWEEN SLAB & FTG. -WHERE SLAB IS REQUIRED TO BE WATERPROOFED IT SHALL CONFORM TO

O.B.C. 9.13.3.

- FLOOR DRAIN PER O.B.C.9.31.4.4.

- UNLESS IT CAN BE DEMONSTRATED THAT SOIL GAS DOES NOT CONSTITUTE A PROBLEM, SOIL GAS CONTROL SHALL CONFORM TO SUPPLEMENTARY STANDARD (O.B.C. SB-9)

AGRAGE SLAB / EXTERIOR SLAB:

-4"(100mm) CONCRETE SLAB

-4650psi (32MPa) COMPRESSIVE STRENGTH AFTER 28 DAYS FOR UNREINFORCED CONC. & W, 5-8% AIR ENTRAINMENT - O.B.C. 9.3.1.6.

-6" X &" (W2.9 X W 2.9) WIRE MESH LOCATED NEAR MID-DEPTH OF SLAB

-4" (100mm) OF COURSE GRANULAR MATERIAL -ANY FILL PLACED UNDER SLAB , OTHER THAN COURSE CLEAN GRANULAR MATERIAL, SHALL BE COMPACTED. ♦ -POURED 12" WIDE x 8" DEEP POURED CON, GRADE BEAM BELOW SLAB

7 PILASTERS:

O.B.C. 9.15.5.3.

PILASTER
-CONCRETE NIB - 4" X 12" (100mm X 300mm)
-BLOCK NIB - 4" X 12" (100mm X 300mm) BONDED & TIED TO WALL AS PER O.B.C. 9.20.11.2. TOP 7 7/8" (200mm) SOLID.

BEAM POCKET
-4" (100mm) INTO FDN. WALL W/ WIDTH TO MATCH BEAM SIZE. -1/2" (13mm) SPACE AROUND WOOD BEAMS (O.B.C. 9.23.2.2.)

STRUCTURAL COLUMNS -SIZES BASED ON COLUMN SUPPORTING BEAMS CARRYING LOADS FROM -3/LES BASED ON COLUMN SOFFORTING BEAMS CARK TIME LOADS FROM NOT MORE THAN 2 WOOD FRAME FLOORS, WHERE THE LENGTHS OF JOISTS CARRIED BY SUCH BEAMS DO NOT EXCEED 16'-1" (4.9m) AND THE LIVE LOAD ON ANY FLOOR DOES NOT EXCEED 50psf (2.4kPa).

8 STEEL PIPE COLUMN:
O.B.C. 9.15.3.4. & 9.17.3.

-MIN. 3 1/2" (90mm) DIA. W/ 1/4" (6.35mm) WALL THICKNESS -FOR STEEL BEAMS, CLIPS @ TOP & MIN. 6" X 4" X 1/2" (152mmX 100mmx 6.35mm) STEEL BTM PLATE

-FOR WOOD BEAMS, MIN. 4"X4"X1/4" (100mmX 100mm X 6.35mm) STEEL TOP & BTM. PLATES, OR TOP PLATE TO EXTEND MIN. WIDTH OF BEAM -ADJUSTABLE COLUMNS TO CONFORM TO CAN//CGSB-7.2-M WHERE IMPOSED LOAD DOES NOT EXCEED 36 KN (O.B.C. 9.17.3.4

-POURED CONC. ON NATURAL UNDISTRUBED SOIL WITH MIN. SERVICE BEARING CAPACITY OF 100kPa FTG SIZE:

COL. SPACING:

2 STOREY

-MAX. 9'-10" (2997mm) - 34" X 34" X 16" - (860mmX 860mmX 400mm)

-MAX. 16'-0" (4880mm)

3 STOREY -MAX. 9'-10" (2997mm)

1/2 Y "NN Y "NN

I, MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**, UNDER DIVISION C, PART-3

SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES /

-MAX. 16'-0" (4880mm)

- (1120mmX 1120mmX 530mm)

40" X 40" X 19" - (1010mmX 1010mmX 480mm)

- 51" X 51" X 24" - (1295mmX 1295mmX 610mm) -WHERE COL. SITS ON FDN. WALL, USE 4" X 8" X 5/8" (100mmX 200mmX

16mm) STEEL PLATE WITH 2-5/8" (16mm) ANCHOR BOLTS

◆ CLIENT SPECIFIC REVISIONS

AMMENDMENT O. REG. 139/17 JAN 1. 2018

OBC 9.17.4.1, 9.17.4.2, & 9.17.4.3

 $^{-5}\,\!\!\!/_2" \times 5\,\!\!\!/_2"$  (140mm x 140mm) SOLID WOOD COLUMN - OR  $^{-3-2"}x6"$  (38mm x 140mm) BUILT UP COLUMN NAILED TOGETHER W/ 3" (76mm) NAILS SPACED NOT MORE THAN 12" (300mm) APART OR BOLTED TOGETHER W/ 3/8"(9.52mm) DIA BOLTS SPACED AT 18" (450mm) O.C. -WRAP COLUMN BASE W/ 6 MIL POLY

-COLUMN TO SIT DIRECTLY ON CONC PAD (NOT ON CONC SLAB) -25"x25"x12" (640mm x 640mm x 300mm) CONC PAD (1 FLOOR SUPPORTED W/9'-10" COL SPACING)

-34"x34"x14" [860mm x 860mm x 360mm) CONC PAD (2 FLOORS SUPPORTED W/9'-10" COL SPACING)

10 BLOCK PARTY WALL BEAM END BEARING: (WOOD BEAM / GIRDER TRUSSES)

-2"X8"X12" LEDGER BOARD FASTENED W/ 2/ 1/2" ANCHOR BOLTS @ 4" O.C. BETWEEN ADJACENT BEAMS

### BLOCK PARTY WALL BEAM END BEARING: (STEEL BEAM)

-12"X11"X 5/8" STL. PLATE ON TOP OF SOLID CONCRETE BLOCK WITH 2- 1/2"Ø x8" ANCHOR BOLTS

### **WALL ASSEMBLIES:**

14 FOUNDATION WALL:

-FOR WALLS NOT EXCEEDING 8'-2" (2500mm) IN LATERALLY SUPPORTED HEIGHT.

-8" (200mm) SOLID 2200psi (15Mpa) CONCRETE
-MAX. UNSUPPORTED HEIGHT OF 3'-11" (1200mm) & MAX. SUPPORTED HEIGHT -FOR WALLS NOT EXCEEDING 9'-0" (2750mm) IN LATERALLY SUPPORTED HEIGHT.

-10" (250mm) SOLID 2200psi (15MPa) CONCRETE -MAX. UNSUPPORTED HEIGHT OF 4"-7" (1400mm) & MAX. SUPPORTED HEIGHT OF 8"-6" (2600mm) MEASURED FROM GRADE TO FINISHED BASEMENT FLOOR. -LATERAL SUPPORT PROVIDED BY ANCHORED SILL PLATE TO JOISTS.

-FOR CONDITIONS EXCEEDING THESE MAXIMUMS AN ALTERNATIVE IN CONFORMANCE TO O.B.C.-T.9.15.4.2.A SHALL BE USED OR IT SHALL BE DESIGNED UNDER O.B.C. - PART 4
-WALL SHALL EXTEND A MIN. 5 7/8" (150mm) ABOVE GRADE

-INSULATE W/ R20 (RSI 3.52) CONTINUOUS INSULATION FROM UNDERSIDE OF SUBFLOOR TO NOT MORE THAN 8" (200mm) ABOVE FINISHED FLOOR OF BASEMENT (ZONE 1 OBC SB-12 T.3.1.1.2.A.) - ALTERNATE INSULATION METHOD: 2" (51mm) R10 (RSI 1.76)RIGID INSULATION W/ 2"x4"(38mm X 89mm) WOOD STUD W/ R12 (RSI 2.11) BATT INSULATION

-BACK FILL W/ NON-FROST SUSCEPTIBLE SOIL REDUCTION OF THICKNESS:

O.B.C. 9.15.4.7.

-WHERE THE TOP OF THE FOUNDATION WALL IS REDUCED IN THICKNESS TO ALLOW MASONRY FACING. THE MIN. REDUCED THICKNESS SHALL NOT BE LESS THAN 3-1/2" (90mm) THICK.

-TIE TO FACING MATERIAL WITH METAL TIES SPACED MAX. @ 7 7/8" (200mm) -11E 10 FACING MATERIAL WITH METAL TIES SPACED MAX. @ / VERTICALLY O.C. & 2'-11" (900mm) HORIZONTALLY. -FILL SPACE BETWEEN WALL AND FACING SOLID W/ MORTAR

-WHERE WALL IS REDUCED FOR JOISTS, THE REDUCED THICKNESS SHALL BE MAX. 13-3/4" (350mm) HIGH & MIN. 3-1/2" (90mm) THICK

### DAMPPROOFING & WATERPROOFING:

-DAMPPROOF THE EXTERIOR FACE OF WALL BELOW GRADE AS PER O.B.C

-WHERE INSULATION EXTENDS TO MORE THAN 2'-11" (900mm) BELOW GRADE, A FDN. WALL DRAINAGE LAYER SHALL BE PROVIDED IN CONFORMANCE TO O.B.C. 9.14.2.1.(2) (3) (4)

-FINISHED BASEMENTS SHALL HAVE INTERIOR DAMPPROOFING EXTENDING FROM SLAB TO GRADE LEVEL & SHALL CONFORM TO O.B.C. 9.13.
-WHERE HYDROSTATIC PRESSURE OCCURS, FDN. WALLS SHALL BE WATERPROOFED AS PER O B C 9 13 3 WALLS THAT ARE WATERPROOFED DO NOT REQUIRE DAMPPROOFING.

FOUNDATION WALLS @ UNSUPPORTED OPENINGS:

-2-20M BARS IN TOP PORTION OF WALL (UP TO 8'-0" OPENING) -3-20M BARS IN TOP PORTION OF WALL (8'-0" TO 10'-0" OPENING) -4-20M BARS IN TOP PORTION OF WALL (10'-0"TO 15'-0" OPENING)
-BARS STACKED VERTICALLY AT INTERIOR FACE APPROX 4" TO 6" APART. -BARS TO HAVE MIN. 2" (50mm) CONCRETE COVER -BARS TO EXTEND 2'-0" (600mm) BEYOND BOTH SIDES OF OPENING.

# 15 FRAME WALL CONSTRUCTION:

O.B.C. 9.23.

BE SPACED @ 12" (300mm) O.C.

-SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)

GRADE (U.B.C. 7.28.1.4. 6.7.27.1)

-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.
-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16.
-2" X 6" (38mm X 140mm) WOOD STUDS @ 16" (400mm) O.C.
-MIN. R22 (RSI 3.87) @ 16 O.C. +1.5ci INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/WAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4.

-1/2" (12.7mm) GYPSUM BOARD NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. = -FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO

# REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN) FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE THE FOLLOWING MATERIALS:

-REPLACE R22 (RSI 3.87) @ 16 O.C.+1.5ci INSULATION WITH R22 (RSI 3.87) @ 16 O.C.+1.5ci ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m. -REPLACE 1/2" (12.7mm) INTERIOR GYPSUM BOARD WITH 1/2" (12.7mm) TYPE  $\overset{\circ}{\rm X}$  GYPSUM BOARD.

# REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

-REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND ADD/REPLACE THE FOLLOWING: NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).

-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

ALTERNATE FRAME WALL CONSTRUCTION:

O.B.C. 9.23. -SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4, & 9.27.)

-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)

-BRACE W/ CONT. 16 GAUGE STEEL T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY 45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL.

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS. -R14 (RSI 2.46) INSULATION

-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. &

-1/2" (12.7mm) GYPSUM BOARD.

REQUIRED TO BE SPACED @ 12" (300mm) O.C

NOTE - SUPPORT FOR 2+3 FLOORS ABOVE - O.B.C. T.9.23.10.1. = FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C. FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE

# REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN) FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:

-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/sq.m

### $\underline{\sf REQ.}$ FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

REFER TO REQUIREMENTS FOR LESS THAN 4'-0" LIMITING DISTANCE AND

ADD/REPLACE THE FOLLOWING: -NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO

MANUFACTURER'S SPECIFICATIONS).

-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING ON EXTERIOR SIDE OF RIGID INSULATION

# FRAME WALL CONSTRUCTION @ GARAGE:

O.B.C. 9.23. -SIDING OR STUCCO AS PER ELEVATIONS, MIN. 7 7/8" (200mm) FROM FINISHED GRADE (O.B.C. 9.28.1.4. & 9.27.)
-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.

-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C.

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C.

-1/2" (12.7mm) GYPSUM BOARD NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. -FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE

REQUIRED TO BE SPACED @ 12" (300mm) O.C.

-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE

REQUIRED TO BE SPACED @ 12" (300mm) O.C. REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE): O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN)
FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD

THE FOLLOWING MATERIALS: -ADD ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m. -REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD. REQ. FOR FIRE RATING (LESS THAN 2'-0" LIMITING DISTANCE):

-refer to requirements for less than 4'-0" limiting distance and ADD/REPLACE THE FOLLOWING:
-NON-COMBUSTABLE SIDING OR STUCCO AS PER ELEVATIONS (REFER TO MANUFACTURER'S SPECIFICATIONS).

-VINYL SIDING IS PERMITTED PER O.B.C. 9.10.15.5.(3). OVER SHEATHING PAPER OVER 1/2" (12.7mm) GYPSUM EXTERIOR SHEATHING WHICH REPLACES EXTERIOR PLYWOOD OR EQUIV.

BRICK VENEER CONSTRUCTION:

O.B.C. 9.23. -3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX.

-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL SPACING

PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER **OPENINGS** 

-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE (O.B.C. 9.20.13.6.(2) )

-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER -1" (25mm) AIR SPACE

-WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2. 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. -2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C

→ -MIN. R22 (RSI 3.87) © 16 O.C.+1.5ci INSULATION (ZONE 1. OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. &

ALTERNATE BRICK VENEER CONSTRUCTION:

O.B.C. 9.23.

-1/2" (12.7mm) GYPSUM BOARD NOTE - SUPPORT FOR 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. = FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

### REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN) FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS: -REPLACE R22 (RSI 3.87) @ 16 O.C.+1.5ci INSULATION WITH R22 (RSI 3.87)@ 16

O.C.+1.5ci ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 4.8 kg/ sq.m. -REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

-3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX. -MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS

-PROVIDE WEEP HOLES @ 2'-7" (800mm)O.C. @ BTM. COURSE & OVER

@ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C. VERTICAL

-BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING MEMBRANE

(O.B.C. 9.20.13.6.(2) ) -BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UNDER -1" (25mm) AIR SPACE

-1 1/2" (38mm) R8 (RSI 1.41) RIGID INSULATION W/ TAPED JOINTS (O.B.C. 9.27.3.4.)

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. @ 12" (300mm) O.C. ON BOTTOM FLR. WHEN 3 STOREYS
-BRACE W/ CONT. 16 GAUGE STEEL 'T' BRACES FROM TOP PLATE TO BTM. PLATE FOR THE FULL LENGTH OF WALL, OR
-CONT. 2" X 4" (38mmX 89mm) SOLID WOOD BLOCKING @ APPROXIMATELY

45 DEG. FROM TOP PLATE TO BTM. PLATE FOR FULL LENGTH OF WALL -R14 (RSI 2.46) INSULATION -CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. &

1/2" (12.7mm) GYPSUM BOARD NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. = -FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

# -FOR 3 FLOORS SUPPORTED ABOVE, 2" X &" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED @ 12" (300mm) O.C.

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE): O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN) FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD

THE FOLLOWING MATERIALS:
-ADD 1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT AS PER O.B.C. 9.23.16. BETWEEN RIGID INSULATION AND WOOD STUD.
-REPLACE R14 (RSI 2.46) INSULATION WITH R14 (RSI 2.46) ABSORPTIVE INSULATING MATERIAL WITH A MASS OF AT LEAST 2.8 kg/ sq.m.

# -REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD. BRICK VENEER CONSTRUCTION @ GARAGE:

O.B.C. 9.23. -3-1/2" (90mm) FACE BRICK OR 4" (100mm) STONE @ 36'-1" (11m) MAX.

-MIN. 0.03" (0.76mm) THICK, 7/8" (22mm) WIDE CORROSION RESISTANT STRAPS @ MAX. 15 3/4" (400mm) O.C. HORIZONTAL & 23 5/8" (600mm) O.C.

-PROVIDE WEEP HOLES @ 2'-7" (800mm)O C @ RTM COLIRSE & OVER -BASE FLASHING UP TO 5 7/8" (150mm) BEHIND WALL SHEATHING

MEMBRANE (O.B.C. 9.20.13.6.(2) )
-BRICK OR STONE SILLS UNDER OPENINGS, FLASHING UND -1" (25mm) AIR SPACE -WALL SHEATHING MEMBRANE AS PER O.B.C. 9.27.3.2.

-1/4" (6mm) PLYWOOD (EXTERIOR TYPE) OR EQUIVALENT -2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.

-1/2" (12.7mm) GYPSUM BOARD NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23 -FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) ST

IS ARE OF ON REQUIRED TO BE SPACED @ 12" (300mm) O.C.
-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) TOTAL STRUCTURAL ONLY REQUIRED TO BE SPACED @ 12" (300mm) O.C. NOT INCLUDING ENGINEERED

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIAN OF WORD ENGINEERS
VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK.
ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD. Royal Pine Homes Ltd. Richmond Hill 38-10

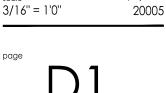
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project #

ASPER OB. EERRARI

JUNE 3, 2021

ISSUED FOR CLIENT REVIEW ISSUED FOR PERMIT

revisions date dwn chk # revisions PM MSA 8 ISSUED FOR CLIENT REVIEW 22-Oct-19 20-AUG-20 KC MS 7 REV PER ENG COMMENTS 28-Apr-21 МD ISSUED FOR CLIENT REVIEW JD MSA 9 ISSUED FOR CLIENT REVIEW MD 4-May-21 HZ MSA 10 REVISED PER ENGINEER COMMENTS & ISSUED FOR PERMIT ISSUED FOR CLIENT REVIEW MD CM

DATE: SIGNATURE:

QUALIFIED DESIGNER BCIN:

REQ. FOR FIRE RATING (LESS THAN 4'-0" LIMITING DISTANCE):

O.B.C. SB-3 WALL = EW1b (STC = N/A, FIRE = 45 MIN) FOR 45 MINUTE FIRE RATED WALL REQUIREMENTS SUBSTITUTE AND/OR ADD THE FOLLOWING MATERIALS:

-ADD R15 (RSI 2.64) ABSORPTIVE MATERIAL WITH A MASS OF AT LEAST 2.8 kg/

-REPLACE 1/2"(12.7mm) GYPSUM BD. W/ 1/2" (12.7mm) TYPE 'X' GYPSUM BD.

# 17 INTERIOR STUD WALLS:

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR -2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/ - DOUBLE 2" X 4" OR 2" X 6" TOP PLATES AND SINGLE BOTTOM PLATE -1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.

# $\langle \overline{18} \rangle$ BEARING STUD WALL (BASEMENT):

-2" X 4" (38mmX 89mm) WOOD STUDS @ 16" (400mm) O.C. OR -2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. W/ - DBL. 2" X 4" OR 2" X 6" TOP PLATE. -2" X 4" OR 2" X 6" BOTTOM PLATE ON DAMPPROOFING MATERIAL.

-1/2" (12.7mm) GYPSUM BOARD BOTH SIDES.

-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7-10" (2400mm) O.C. -FOOTING AS PER GENERAL NOTE #2 W/4" CONC. CURB

# 19 PARTY WALL - BLOCK:

O.B.C. SB-3 WALL = B6e (STC = 57, FIRE = 2 HR)
-MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS

TO THE U/S OF ROOF DECK -SPACE BETWEEN TOP OF WALL & ROOF DECK SHALL BE TIGHTLY FILLED W/ MINERAL WOOL OR NONCOMBUSTIBLE MATERIAL & CAULKED TO PREVENT SMOKE PASSAGE

-1/2" (12.7mm) GYPSUM BOARD W/ TAPED JOINTS BOTH SIDES -2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. BOTH

-ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF 90% OF THE

-7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE) -STAGGER JOISTS & BEAMS MIN. 3 1/2" (90mm) @ PARTY WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1. SB-2 -ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1)

PARTY WALL - BLOCK (AGAINST GARAGE): O.B.C. SB-3 WALL = B5c (STC = 51, FIRE = 2 HR) -MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS -1/2" (12.7mm) GYPSUM BOARD

-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. -CUNINGUOS AIR/ VAFOUR BARRIER IN CONTRIBUTE 17, 5.5. -2" X 6" (38mmX 140mm) WOOD STRAPPING @ 16" (400mm) O.C.

-R22 (RSI 3.52) RIGID INSULATION -7 1/2" (190mm) HOLLOW BLOCK (NORMAL WEIGHT AGGREGATE)

-1/2" (12.7mm) GYPSUM BOARD @ WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE -TAPE AND SEAL ALL JOINTS GAS TIGHT

# (19b) FIREWALL:

O.B.C. 9.10.11. & 3.1.10. & SB-3 WALL = B6e (STC = 57, FIRE = 2 HR) - ONE FIREWALL IS REQUIRED FOR EVERY 6460 S.F. (600 SQ.M) OF BUILDING AREA, O.B.C. T.3.2.2.47.

-1/2" (12.7mm) GYPSUM BOARD W/TAPED JOINTS -2" X 2" (38mmX 38mm) WOOD STRAPPING @ 24" (600mm) O.C. ON BOTH SIDES OF WALL

-SOUND ABSORPTIVE MATERIAL EACH SIDE FILLING 90% OF THE CAVITY -7 1/2" (190mm) CONC. BLOCK, MIN. 2 HR. FIRE-RESISTANT RATING -EVERY FIREWALL SHALL BE CONTINUOUS THROUGH ALL BUILDING STOREYS -STAGGER JOISTS & BEAMS MIN. 5" (130mm) @ FIRE WALLS AS PER O.B.C. 9.10.9.9.(1) & TABLE 2.1.1 SB-2

O.B.C., 7.10.9.7.(1) & TABLE 2.1.1 3B-2 -ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1) -PROTRUDE PAST FASCIA @ EAVES W/ BRICK CORBELLING -EXTEND 5 7/8" (150mm) ABOVE ROOF SURFACES & HAVE ALUMINUM CAP W/THROUGH WALL FLASHING PER O.B.C. 3.1.10.4.(1)
-WHERE THE DIFFERENCE IN HEIGHT BETWEEN ADJACENT ROOFS IS GREATER

THAN 9'10" (3m), WALL NEED NOT EXTEND PAST UPPER ROOF SURFACE PER O.B.C. 3.1.10.4.(2)

# 20 PARTY WALL - FOUNDATION:

O.B.C. 9.15.4.2.

-7 7/8" (200mm) SOLID CONC. FOUNDATION WALL @ 2200psi (15MPa)
COMPRESSIVE STRENGTH AFTER 28 DAYS -FOUNDATION WALL TO REST ON FOOTING PER GENERAL NOTE #2

21) PARTY WALL - WOOD STUD:
O.B.C. SB-3 WALL = W13a (STC = 57, FIRE = 1 HR) -MIN. 1HR FIRE-RESISTANCE RATING CONTINUOUS FROM TOP OF FOOTINGS TO THE U/S OF ROOF DECK

-2 ROWS 2"X4" (38mmX 89mm) STIDS @ 16" (400mm) O.C. W/ SEPARATE 2" X 4" (38mmX 89mm) BOTTOM PLATE & SEPARATE DOUBLE 2" X 4" (38mmX 89mm) TOP PLATES -SOUND ABSORPTIVE MATERIAL ON BOTH SIDES FILLING A MINIMUM OF

-5/8" (16mm) TYPE 'X' GYPSUM BOARD BOTH SIDES W/ JOINTS TAPED &

-ACOUSTICAL SEALANT AS PER O.B.C. SB-3 (NOTE (2) TO TABLE 1) NOTE - SUPPORT FOR 2 + 3 FLOORS ABOVE - O.B.C. T.9.23.10.1. = -FOR 2 FLOORS SUPPORTED ABOVE, 2" X 4" (38mmX 89mm) STUDS ARE

REQUIRED TO BE SPACED © 12" (300mm) O.C.

-FOR 3 FLOORS SUPPORTED ABOVE, 2" X 6" (38mmX 140mm) STUDS ARE REQUIRED TO BE SPACED © 12" (300mm) O.C.

- IF 2"x6" STUDS ARE USED AT STAIR OPENING CONTINUE TO USE

ON REMAINING FLOORS AT THE STAIR OPENING AT 16" O.C.

# $\langle 22 \rangle$ Garage wall & Ceiling:

O.B.C. 9.10.9.16.(3)
-1/2" (12.7mm) GYPSUM BOARD ON BOTH SIDES OF WALL & U/S OF CEILING BETWEEN HOUSE AND GARAGE
-TAPE AND SEAL ALL JOINTS GAS TIGHT

-R22 (RSI 3.87) INSULATION IN WALLS, -R31 (RSI 5.41) INSULATION IN CEILINGS W/ FLOOR ABOVE -CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.-

9.25.3. & 9.25.4. FOR FLOOR ABOVE.
-INSULATION AROUND DUCTS AND PIPING NOT TO ENCROACH MIN.
REQUIRED GARAGE AREA (REFER TO MUNICIPAL STANDARDS).

-1/2" (12.7mm) GYPSUM BOARD -ROOF FRAMING MEMBERS ARE FASTENED TO TOP PLATES WITH

4 - 3 1/4" (82mm) TOE NAILS -BOTTOM PLATES ARE FASTEN RIM JOIST WITH 3 1/4" (82mm) NAILS AT 7 7/8" (200mm) O.C.

# WALLS ADJACENT TO ATTIC SPACE:

-1/2" (12.7mm) GYPSUM BOARD -CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.-

9.25.3. & 9.25.4. -2" X 6" (38mmX 140mm) WOOD STUDS @ 16" (400mm) O.C. -R22 (RSI 3.87) INSULATION

-1/2" (12.7mm) GYPSUM BOARD OR 1/4" (6mm) PLYWOOD SHEATHING ON ATTIC SIDE

-ATTIC ACCESS TO BE PROVIDED AS PER O.B.C. 9.19.2.1.

# DOUBLE VOLUME WALLS:

O.B.C. 9.23.10.1. -3/8" (9.5mm) PLYWOOD, OSB OR WATERBOARD SHEATHING -STUDS FASTENED AT TOP & BOTTOM WITH 3/3-1/4" (82mm) TOE NAILS

-DOUBLE TOP PLATES FASTENED TOGETHER WITH 3" (76mm) AT 7 7/8" (200mm) O.C. -SOLID BRIDGING AT 3'-11" (1200mm) O.C.

-MIN. R22 (RSI 3.87) INSULATION (ZONE 1 OBC SB-12 T.3.1.1.2.A.)
-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.9.

♦ CLIENT SPECIFIC REVISIONS

24 EXPOSED FLOOR:
-FLOOR AS PER NOTE # 28

-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C.- 9.25.3. & 9.25.4. -VENTED ALUMINUM SOFFIT

\$\frac{240}{\text{-USE SOLID BUILT-UP WOOD BEARING POST TO SUPPORT SUNKEN AREA}\$ AT FOUNDATION WALLS, EXTEND FOOTINGS TO SUPPORT POSTS.
- WHERE GRADING CONDITIONS WILL ALLOW, CHECK FOUNDATION WALLS INSTEAD OF USING BEARING POSTS. FLOOR STRUCTURE AS PER NOTE # 28.

# 25 DOUBLE MASONRY WYTHE WALL:

O.B.C. 9.20.8.2.

-3 1/2" MASONRY VENEER ON 2" MORTAR JOINT ON 3 1/2" MASONRY VENEER -WYTHES TO BE TIED W/ METAL TIES INSTALLED AS PER O.B.C. 9.20.9.4. SILL PLATE REQUIRED FOR ROOF AND CEILING FRAMING MEMBERS -6" SILL W/ 2" BEARING ON EACH SIDE & ANCHOR BOLTS @ 4-0" O.C. NOTE: MASONRY TO BE SOLID & MORTAR JOINT FILLED SOLID FOR FLOOR JOISTS BEARING ON WYTHES. FLOOR JOISTS ARE NOT TO PROJECT INTO CAVITY

# (25a) CORBEL MASONRY VENEER:

-MASONRY VENEER TO BE CORBELLED AS PER O.B.C. 9.20.12.3.(1)

# FLOOR ASSEMBLIES:

# $\langle 26 \rangle$ SILL PLATE:

O.B.C. 9.23.7. -2" X 4" (38mm X 89mm) PLATE

-1/2" (12.7mm) DIA. ANCHOR BOLTS @ 7"-10" (2400mm) O.C. FASTENED TO PLATE W/ NUTS AND WASHERS & SHALL BE EMBEDDED NOT LESS THAN 4"

(100mm) INTO FOUNDATION WALL.
-SILL PLATE TO BE CAULKED, OR PLACED ON A LAYER NOT LESS THAN 1"
(25mm) THICK BEFORE COMPRESSING, OR FOAM GASKET, OR PLACED ON FULL BED OF MORTAR.

### BRIDGING & STRAPPING:

O.B.C. 9.23.9.4. a) STRAPPING

-1" X 3" (19mmX 64mm) NAILED TO U/S OF JOISTS @ MAX. 6'-11" (2100mm) O.C. -FASTENED TO SILL OR HEADER @ ENDS b) BRIDGING

-1" X 3" (19mmX 64mm) OR 2" X 2" (38mmX 38mm) CROSS BRIDGING @ MAX. 6'-11" (2100mm) O.C. c) BRIDGING & STRAPPING

- a) & b) USED TOGETHER OR -1 1/2" (38mm) SOLID BLOCKING @ MAX. 6'-11" (2100mm) O.C. USED WITH STRAPPING (a)

OI FURRING OR PANEL TYPE CEILING -STRAPPING NOT REQUIRED IF FURRING STRIPS OR PANEL TYPE CEILING FINISH IS ATTACHED DIRECTLY TO JOISTS.

# $\langle 28 \rangle$ **FLOOR ASSEMBLY**:

O.B.C. 9.23.14.3, 9.23.14.4 -5/8" (15,9mm) WAFERBOARD (R-1 GRADE) OR EQUIVALENT -FLOOR JOISTS AS PER FLOOR PLANS

# $\langle 29 \rangle$ PORCH SLAB:

O.B.C. 9.39.1.4.

-4 7/8" (125mm) 4650 psi (32 MPa) CONC. SLAB WITH 5 TO 8% AIR ENTRAINMENT -REINFORCE WITH 10M BARS @ 7 7/8" (200mm) EACH WAY -1 1/4" (30mm) CLEAR COVER FROM THE BOTTOM OF THE SLAB

-3" (75mm) END BEARING ON FOUNDATION WALL -23 5/8" (600mm) X 23 5/8" (600mm) 10M DOWELS @ 23 5/8" (600mm) O.C.

-IF A COLD CELLAR IS LOCATED BELOW THE SLAB, SUPPORT ON FOUNDATION WALLS NOT TO EXCEED  $8^{\circ}\!\!-\!\!2^{\circ}\!\!-\!$ 

### EXTERIOR BALCONY ASSEMBLY:

-1 1/4" X 3 1/2" PRESSURE TREATED DECKING W/ 1/4" SPACING
-2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. LAYING UNFASTENED
ON SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT ON 5/8"
(15.9mm) EXTERIOR GRADE PLYWOOD SHEATHING ON 2"X4" WOOD PURLINS (CUT DIAGONALLY) @ 12" O.C. DIRECTLY ON 2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN) EXTERIOR GUARD AS PER #36a

- SLOPE ASSEMBLY MINIMUM 2% TO ROOF SCUPPER

REQUIRED FOR OVER HEATED SPACES:

-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)

-ADD R31 (RSI 5.46) INSULATION BETWEEN JOISTS -ADD CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3. & 9.25.4

-AJDD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR -ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C.-T.9.29.5.3.)

# 30a EXTERIOR FLAT ROOF ASSEMBLY:

-SINGLE PLY WATERPROOF ROOF MEMBRANE OR EQUIVALENT INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

-1/4" EXTERIOR GRADE WOOD PANEL TYPE UNDERLAY TAPERED PURLINS SLOPED MIN. 2% TO ROOF SCUPPER.

-3/8" EXTERIOR GRADE PLYWOOD SHEATHING ON -2"X8" ROOF JOISTS @ 12" O.C. (OR AS NOTED ON PLAN)

# REQUIRED FOR OVER HEATED SPACES:

-ADD 2"x2" (38mm x 38mm) CROSS PURLINS @ 16" (400mm) O.C. FOR VENTILATION OVER JOISTS (OBC 9.19.1.2. VENTING NOT LESS THAN 1/150 OF CEILING AREA)

Celling Arla), -ADD 83 (RSI 5.46) Insulation between Joists -ADD Continuous Air/vapour Barrier in Conformance W/ O.B.C. 9.25.3. & 9.25.4

-ADD 1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR -ADD 5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

# **ROOF ASSEMBLIES**

# $\langle 31 \rangle$ TYPICAL ROOF:

O.B.C. 9.26. -NO. 210 (30. 5KG/m2) ASPHALT SHINGLES

-NO. 210 (30). ASYM12) ASYMALI SMINGLES
-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO
EXTEND UP THE ROOF SLOPE MIN. 2"-11" (900mm) FROM EDGE TO A LINE NOT
LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.
-EAVES PROTECTION LAID BENEATH STARTER STRIP.
-EAVE PROTECTION LAID BENEATH STARTER STRIP.

-STARTER STRIP AS PER O.B.C. 9.26.7.2. -STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)

-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS -, 2 (N. ...., 1 - .... ) APPROVED WOOD TRUSSES @ 24" (600mm) O.C. (REFER TO MANUFACTURER'S LAYOUT)

-Truss Bracing as Per Truss Manufacturer -Eavestrough on Prefinished Fascia and Vented Soffit (Vinyl or ALUMINUM)

# ATTIC VENTILATION 1:300 OF INSULATED CEILING AREA WITH, 50% AT SOFFIT.

date dwn chk #

MS

22-Oct-19

(32) CEILING: -R60 (RSI 10.56) INSULATION

-CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE W/ O.B.C. 9.25.3.

-1/2" (12.7mm) GYPSUM BOARD W/ PAINTED CEILING OR -5/8" (15.9mm) GYPSUM BOARD W/ TEXTURED CEILING (O.B.C. T.9.29.5.3.)

# (320) VAULTED OR CATHEDRAL CEILING:

O.B.C. 9.26. & TABLE A4

O.B.C. 7.26. & TABLE 44

-NO. 210 (30. SKG/m2) ASPHALT SHINGLES

-FOR ROOFS BETWEEN 4:12 & 8:12 PITCH PROVIDE EAVES PROTECTION TO EXTEND UP THE ROOF SLOPE MIN. 2'-11" (900mm) FROM EDGE TO A LINE NOT LESS THAN 12" (300mm) PAST THE INSIDE FACE OF EXTERIOR WALL.

-EAVES PROTECTION LAID BENEATH STARTER STRIP.

-EAVE PROTECTION NOT REQUIRED OVER UNHEATED SPACES OR WHERE ROOF SLOPES ARE 8:12 OR GREATER PER O.B.C. 9.26.5.1.
-STARTER STRIP AS PER O.B.C. 9.26.7.2.
-STARTER STRIP NOT REQUIRED AS PER O.B.C. 9.26.7.2.(3)

-3/8" (10mm) PLYWOOD SHEATHING OR OSB (0-2 GRADE) WITH "H" CLIPS.

PM MSA 8 ISSUED FOR CLIENT REVIEW

JD MSA 9 ISSUED FOR CLIENT REVIEW

HZ MSA 10 REVISED PER ENGINEER COM ISSUED FOR PERMIT

7 REV PER ENG COMMENTS

Richmond Hill

# marketing name

10-AUG-20 KC

28-Apr-21 МD

4-May-21 МD СМ



-2"x8" (38mm x 184mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS PURLINS @ 24" O.C. MAX. SPAN 13"-3" (4050mm) OR -2"x10" (38mm x 235mm) @ 16" O.C. W/ 2"x2" (38mm x 38mm) CROSS

-MIN. 3" CLEARANCE FROM U/S OF ROOF SHEATHING TO INSULATION CONTINUOUS AIR/VAPOUR BARRIER IN CONFORMANCE WITH O.B.C. 9.25.3. & 9.25.4.

-2" X 6" (38mm X 140mm) RAFTERS @ 16" (400mm) O.C. MAX. SPAN 12'-9"

HIP & VALLEY RAFTERS TO BE MIN. 2" (50mm) LARGER THAN COMMON

(200mm)

(210mm) (235mm)

(25mm)

(1950mm)

(860mm)

(150mm)

(200mm)

-ONF HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)

DWELLING UNITS

-HANDRAILS ARE TO BE CONTINUOUS EXCEPT WHERE INTERRUPTED BY DOOR

-ONE HANDRAIL S REQUIRED WHERE STAIR WIDTH EXCEEDS 3-" (1100mm)
-ONE HANDRAIL IS REQUIRED ON CURVED STAIRS OF ANY WIDTH WITHIN

-2"X4" (38mm X 89mm) COLLAR TIES AT MIDSPANS -CEILING JOISTS TO BE 2" X 6" (38mmX 140mm) @ 16" (400mm) O.C

OBC 9.19.2.1. & SB-12 3.1.1.8.(1) -19 3/4" X 27 1/2" (500mm X 700mm) ATTIC HATCH WITH

= 7-7/8'

= 8-1/4"

= 9-1/4"

= 6'-5"

= 2'-10"

= 5 7/8"

= 7 7/8"

WAYS, LANDINGS OR POSTS AT CHANGES IN DIRECTION

= 7-3/32"

= 11"

= 11" = 1"

= 6'-9" = 2'-11"

O.B.C. 9.8.7.4 - 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.

(EXIT STAIRS, BETWEEN GUARDS)
-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS
-FOUND, WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2

-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

O.B.C. 9.8.7 -ONE HANDRAIL REQUIRED WHERE STAIR WIDTH IS LESS THAN 3'-7" (1100mm)

-TWO HANDRAILS REQUIRED WHERE STAIR WIDTH EXCEEDS 3-7" (1100mm) -TWO HANDRAILS ARE REQUIRED ON CURVED STAIRS OF ANY WIDTH

-HANDRAILS ARE TO BE CONTINUOUS INCLUDING AT LANDINGS EXCEPT WHERE INTERRUPTED BY DOOR WAYS OR NEWEL POSTS AT CHANGES IN

- 3"-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS) - MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

PROJECTIONS:
O.B.C. 9.8.7.6
- HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP

STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED

TERMINATION:
O.B.C. 9.8.7.3
- ONE HAND RAIL SHALL EXTEND HORIZONTALLY NOT LESS THAN 11 3/4"
(300mm) BEYOND THE TOP & BOTTOM OF EACH STAIR

FINISH:
O.B.C. 9.8.9.6
-TREADS ARE TO BE WEAR AND SLIP RESISTANT, SMOOTH, EVEN AND FREE

FROM DEFECTS PER OBC 9.8,9.6.(4)

- STAIRS AND RAMPS SHALL HAVE A COLOUR CONTRAST OR DIS
VISUAL PATTERN TO DEMARCATE THE LEADING EDGE OF THE TREE

LANDING AND THE BEGINNING AND END OF A RAMP.

-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900 -INCLUDES WINDOWS OVER STAIRS, RAMPS AND LANDINGS

GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-

-FOR DWELLING UNITS GUARDS TO BE A MIN. OF 2'-11" (900mm) HIGH -FOR DWELLING UNITS GUARDS TO BE 3"-6" (1070mm) HIGH WHERE WALKING SURFACE IS MORE THAN 5"-11" (1800mm) ABOVE ADJACENT GRADE.

-GUARDS FOR FLIGHTS OF STEPS (EXCEPT EXIT STAIRS) TO BE 2'-11" (900mm) HIGH

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK.
ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD.

O.B.C. SB-7 & 9.8.8.3.

-GUARDS ARE REQUIRED WHEN WALKING SURFACE TO GRADEQOR OR ROWSYSTEM

O.B.C. SB-7 & 9.8.8.3. -GUARDS TO BE 3'-6" (1070mm) HIGH

-PICKETS TO HAVE 4" (100mm) MAX, SPACING

-PICKETS TO HAVE 4" (100mm) MAX. SPACING -PROVIDE MID-SPAN POSTS AS PER SB-7.

- 3'-6" (1070mm) WHERE GUARDS ARE REQUIRED ON LANDINGS - 3-6 (TO/OHIT) WHERE GUARDS ARE REQUIRED ON EARNINGS - MEASURED VERTICALLY FROM THE TOP OF THE HANDRAIL TO A STRAIGHT LINE DRAWN FROM THE TANGENT TO THE TREAD NOSING

-HANDRAILS AND PROJECTIONS BELOW HANDRAILS INCLUDING STEP STRINGERS TO PROJECT A MAXIMUM OF 4" (100mm) INTO THE REQUIRED

(180mm)

(280mm)

(25mm)

(2050mm) (900mm)

HEIGHT:
O.B.C. 9.8.7.4
- 2'-10" (865mm) MIN. TO 3'-2" (965mm) MAX.

-FINISHED RAILING ON WOOD PICKETS MAX. 4" BETWEEN PICKETS -EXTERIOR CONC. STEPS TO HAVE MIN. 9 1/4" (235mm) TREAD &

MAX. 7 7/8" (200mm) RISE

-FOUND. WALL REQUIRED WHEN NUMBER OF RISERS EXCEEDS 2
-FTG. FOR FOUND. WALL TO BE MIN. 4'-0" (1220mm) BELOW GRADE

WEATHERSTRIPPING & BACKED W/ R20 (RSI 3.52) INSULATION.

PURLINS @ 24" O.C. MAX. SPAN 17'-0" (5180mm) -R31 (RSI 5.46) INSULATION

-1/2" (12.7mm) GYPSUM BOARD

O.B.C. TABLE A6 OR A7

RAFTERS & MIN. 1 1/2" (38mm) THICK.

 $\overline{\langle 33 \rangle}$  CONVENTIONAL FRAMING:

UNLESS OTHERWISE NOTED.

34 ATTIC ACCESS HATCH:

O.B.C. 9.8.4. -MAX. RISE

 $\left\langle \overline{35}\right\rangle$  PRIVATE STAIRS:

-MIN. RUN -MIN. TREAD

-MIN. WIDTH

MIN. RUN

**HANDRAILS:** 

-MIN. AVG. RUN

-MAX, NOSING

-MIN. HEADROOM

ANGLED TREADS:

O.B.C. 9.8.7

PROJECTIONS: O.B.C. 9.8.7.6

WIDTH OF THE STAIR

O.B.C. 9.8.4. -MAX. RISE

(350) PUBLIC STAIRS:

-MIN. RUN

-MIN. TREAD

HANDRAILS:

HEIGHT:

36 INTERIOR GUARDS:

(360) EXTERIOR GUARDS:

23 5/8" (600mm)

GUARDS TO BE 3'-6" (1070mm)

-MAX. NOSING

-MIN. HEADROOM -MIN. WIDTH

(BETWEEN WALL FACES)

-MIN. WIDTH = 2'-11" (9 (EXIT STAIRS, BETWEEN GUARDS)

(3890mm)

38-10 3/16" = 1'0"

ALBO, PESS 1014

2021-06-04

D. FERRARI

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SOOREN PHICON

FOR STRUCTURAL ONLY

NOT INCLUDING ENGINEERE

project #

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page

I, MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF **RN DESIGN LTD**, UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES / CATEGORIES

QUALIFIED DESIGNER BCIN: DATE:



JUNE 3, 2021

Centrefield, Ph. 2

revisions

ISSUED FOR CLIENT REVIEW

ISSUED FOR CLIENT REVIEW

ISSUED FOR CLIENT REVIEW

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Royal Pine Homes Ltd.

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revisions

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(36b) EXTERIOR GUARDS @ JULIET BALCONY:

-FOR RAILING SPANNING MAXIMUM OF 6'-0". PROVIDE PREFIN. METAL RAILING W/ 76mm VERTICAL OPENING TO CONFORM WITH O.B.C. APPENDIX A-9.8.8.5.

-GUARDS TO BE 3-6" (1070mm) -FOR DWELLING UNITS GUARDS TO BE 2'-11" (900mm) WHERE FLOOR TO GRADE DIFFERENCE IS LESS THAN 5'-11" (1800mm) AS PER O.B.C.

-FOR DWELLING UNITS GUARDS TO BE 3'-6" WHERE FLOOR TO GRADE DIFFERENCE IS 5'-11" (1800mm) OR GREATER AS PER O.B.C. 9.8.8.2. -VERTICAL END RAILING ANCHORED TO CORNER DOUBLE STUDS USING 3 ROWS OF 3/8"Ø MIN. ANCHOR BOLTS EQUALLY SPACED WITH 3" MIN. EMBEDMENT TO STUDS.

-PROVIDE SAME ANCHOR BOLTS @ 36" O.C. FOR BASE PLATE CONNECTION.

-LINEN CLOSET 4 SHELVES MIN. 1'-2" (350mm) DEEP

-WASHROOMS TO BE MECHANICALLY VENTED TO PROVIDE AT LEAST ONE

-CAPPED DRYER VENT

 $\left<40\right>$  -1"X2" (19mmX38mm) BOTH SIDES OF STEEL.

-WOOD FRAMING MEMBERS SUPPORTED ON CONCRETE IN CONTACT WITH GROUND OR FILL SHALL BE PRESSURE TREATED OR SEPARATED FROM CONCRETE W/ 6 mil POLYETHYLENE.

-PRECAST CONC. STEP -2 RISERS MAXIMUM PERMITTED TO BE LAID ON GROUND

SMOKE ALARM, O.B.C.- 9.10.19.
-PROVIDE 1 ON EACH FLOOR INCLUDING BASEMENTS

-PROVIDE 1 IN EACH BEDROOM
-PROVIDE 1 IN EACH HALLWAY SERVICING BEDROOMS

- INSTALLED AT OR NEAR CEILING

-ALARMS TO BE CONNECTED IN CIRCUIT AND INTERCONNECTED SO ALL ALARMS WILL BE ACTIVATED IF ANY ONE OF THEM SOUNDS AND HAVE A VISUAL SIGNALLING COMPONENT

-ALARMS MUST BE HARDWIRED AND HAVE AN ALTERNATE POWER SOURCE THAT CAN POWER ALARM FOR 7 DAYS, FOLLOWED BY 4 MINUTES OF ALARM

CARBON MONOXIDE ALARM (CMA), O.B.C.- 9.33.4 -WHERE THERE IS A FUEL BURNING APPLIANCE A CMA SHALL BE PROVIDED ADJACENT TO EACH SLEEPING AREA.

-CMA TO BE WIRED IN CIRCUIT TO SOUND SMOKE ALARMS WHEN

-MAIN DOOR TO BE OPERABLE FROM INSIDE W/OUT KEY -PROVIDE A VIEWER WITH A VIEWING ANGLE OF NOT LESS THAN 160 DEG. UNLESS GLAZING IS PROVIDED IN DOOR OR A SIDELIGHT IS PRESENT.

-R4 (RSI 0.70) WHERE A STORM DOOR IS NOT PROVIDED -GARAGE MAN DOORS TO BE GAS PROOFED WITH SELF CLOSER WEATHERSTRIPPING, THRESHOLD & DEAD BOLT PER O.B.C. 9.10.13.15.

-TRAVEL FROM A FLOOR LEVEL TO AN EXIT OR EGRESS DOOR SHALL BE

LIMITED TO ONE FLOOR EXCEPT 1) WHERE THAT FLOOR LEVEL HAS ACCESS TO A BALCONY

2) WHERE THAT FLOOR LEVEL HAS A WINDOW PROVIDING AN UNOBSTRUCTED OPENING OF NOT LESS THAN 3'-3" (1000mm) IN HEIGHT AND 21 5/8" (550mm) IN WIDTH; SUCH WINDOW SHALL BE LOCATED SO THAT THE SILL IS NOT MORE THAN 3'-3" (1000mm) ABOVE FLOOR AND 23'-0" (7.0m) ABOVE ADJACENT GROUND LEVEL.

# 49 EXTERIOR COLUMN W/ MASONRY PIER:

-MIN. 6"X6" (140mm X 140mm) WOOD POST ANCHORED TO PORCH SLAB W/

TOP PORTION OF POST CLAD W/ DECOR. SURROUND PER ELEVATION DRAWINGS.

-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP. -SURROUND TO BE TIED W/ METAL TIES @ 16" (400mm) O.C. VERT. INSTALLED PER O.B.C. 9.20.9.4.
-3/4" AIR SPACE AROUND POST.

MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO CONC. CAP W/ METAL SADDLE. 14" X 14" MASONRY PIER TO BE CONSTRUCTED SOLID W/ PRECAST

-REFER TO ELEVATION DRAWINGS FOR HEIGHT OF CAP. NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" POST PROVIDED THAT THEY ARE IN CONFORMANCE WITH O.B.C. 9.17.4.

# (49a) EXTERIOR COLUMN:

-MIN. 6"X6" (140mm X 140mm) WOOD POST CLAD W/ DECOR. SURROUND (PER ELEVATION DRAWINGS) ANCHORED TO PORCH SLAB W/

NOTE: DECORATIVE STRUCTURAL COLUMNS MAY REPLACE 6" X 6" ABOVE PROVIDED THAT THEY ARE IN ACCORDANCE WITH O.B.C. 9.17.4.

# $\langle 50 \rangle$ COLD CELLARS:

FOR COLD CELLARS PROVIDE THE FOLLOWING: -VENTING AREA TO BE EQUIVALENT TO 0.2% OF COLD CELLAR AREA. -COVER VENT W/ BUG SCREEN

-WALL MOUNTED LIGHT FIXTURE -L1+L7 FOR DOOR OPENING

-2-8" X 6-8" EXTERIOR TYPE DOOR (MIN.R-4 RSI 0.7) -INSULATE FULL HEIGHT OF INTERIOR BASEMENT WALL W/ MIN. R12 (RSI 2.11)

# $\langle 51 \rangle$ STUD WALL REINFORCEMENT:

O.B.C. 9.5.2.3.

-WALL STUDS ADJACENT TO WATER CLOSETS & SHOWER BATH TUBS IN MAIN BATHROOM ARE TO BE REINFORCED TO PERMIT THE FUTURE INSTALLATION OF GRAB BARS AS PER O.B.C. 3.8.3.8.(3)(a)&(c) & 3.8.3.13.(2)(f) & -GRAB BARS TO BE INSTALLED AS PER O.B.C. 9.8.7.7.(2)

# 52 ELECTRICAL VEHICLE CHARGING REQUIREMENTS:

REFER TO OBC 9.34.4.1. FOR REQUIRMENTS (EFFECTIVE JANUARY 2018)

### WINDOW GUARDS:

<u>® STAIRS, LANDINGS & RAMPS</u> - OBC 9.8.8.1.(8) WINDOW SILL AT 3'-0" (900mm) OR GREATER DOES NOT REQUIRE GUARDS @ FLOORS - OBC 9.8.8.1.(6)

WINDOWS LESS THAN 1'-7" (480mm) ABOVE FLOORS WHERE ADJACENT GRADE IS GREATER THAN 5'-11" (1800mm) REQUIRE A GUARD PER OBC 9.8.8.2

WINDOW TO BE NON-OPERABLE AND DESIGNED TO WITHSTAND LATERAL LOADS PER OBC 9.8.8.1.(8)(b)

### FRAME CONSTRUCTION:

-ALL FRAMING LUMBER TO BE NO.1 AND No. 2 SPF UNLESS NOTED OTHERWISE.

ROOF LOADING IS BASED ON 1.5kPa SPECIFIED COMPOSITE SNOW AND

RAIN LOADS

-JOISTS TO HAVE MIN. 1-1/2" (38mm) END BEARING -BEAMS TO HAVE MIN. 3-1/2" (89mm) END BEARING -DOUBLE STUDS @ OPENINGS DOUBLE HEADER JOISTS AROUND FLOOR OPENINGS WHEN THEY ARE

BETWEEN 3-11" (1200mm) AND 10'-6" (3200mm)
-DOUBLE TRIMMER JOISTS WHEN HEADER JOIST LENGTH IS BETWEEN 2'-7"

(800mm) AND 6-7" (2000mm)

-DOUBLE JOISTS OR SOLID BLOCKING UNDER NON-LOAD BEARING

PARALLEL PARTITIONS
-BEAMS TO BE PLACED UNDER LOADBEARING WALLS WHEN WALLS ARE

PARALLEL TO FLOOR JOISTS -BEAMS MAY BE A MAX. 24" (600mm) FROM LOADBEARING WALLS WHEN WALLS ARE PERPENDICULAR TO FLOOR JOISTS

-APPROVED METAL HANGERS TO BE USED FOR JOISTS AND BEAMS WHEN THEY FRAME INTO SIDES OF BEAMS, TRIMMERS AND HEADERS -FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 15 3/4" (400mm) BEYOND SUPPORTS FOR 2" X 8" (38mm X

-FLOOR JOISTS SUPPORTING ROOF LOADS SHALL NOT BE CANTILEVERED MORE THAN 23 5/8" (600mm) BEYOND SUPPORTS FOR 2" X 10" (38mm X 235mm) OR LARGER.

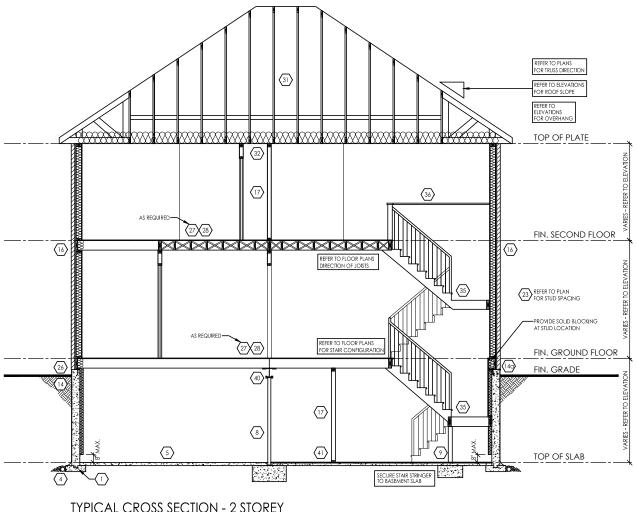
### WINDOWS:

HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF

-AN ENERGY RATING OF NOT LESS THAN 25 FOR WINDOWS -BASEMENT WINDOWS WITH LOAD BEARING STRUCTURAL FRAME SHALL BE DOUBLE GLAZED WITH LOW-E COATING

-SKYLIGHTS SHALL HAVE AN OVERALL COEFFICIENT OF HEAT TRANSFER OF

-FOR GROSS GLAZED AREAS LESS THAN AND EQUAL TO 17%



PROFESS 10M 2021-06-04 D. FERRARI 100166929 OF ON FOR STRUCTURAL ONLY NOT INCLUDING ENGINEERED

FLOOR OR ROOF SYSTEM

THESE DRAWINGS ARE NOT TO BE SCALED. ALL DIMENSIONS MUST BE VERIFIED BY CONTRACTOR PRIOR TO COMMENCEMENT OF ANY WORK ANY DISCREPANCIES MUST BE REPORTED DIRECTLY TO RN DESIGN LTD

# **♦** CLIENT SPECIFIC REVISIONS

**SCHEDULES** 

DOORS 46 \( 47 \) A 865x2030x45 (2'10"x6'8"x1-3/4") B 815x2030x35 (2'8"x6'8"x1-3/8")

C 760x2030x35 (2'6"x6'8'x1-3/8") D 710x2030x35 (2'4"x6'8"x1-3/8") E 460x2030x35 (1'6"x6'8"x1-3/8") F 610x2030x35 (2'0"x6'8"x1-3/8") G OVER SIZED EXTERIOR DOOR

W 8 X 21

STEEL BEAMS ST1 W 6 X 15 ST2 W 6 X 20 W 8 X 18

WD1 3/2" X 8" SPR WD2 4/ 2" X 8" SPR WD3 5/ 2" X 8" SPR WD4 3/2" X 10" SPR WD5 4/2" X 10" SPR WD6 5/ 2" X 10" SPR WD7 3/ 2" X 12" SPR

WD8 4/2" X 12" SPR WD9 5/2" X 12" SPR

(BRICK)

N.T.S.

WOOD BEAMS WD10 2/ 1 3/4" X7 1/4" (2.0E) LVL WD11 3/ 1 3/4" X7 1/4" (2.0E) LVL WD12A 1/ 1 3/4" X9 1/2" (2.0E) LVL WD12 2/ 1 3/4" X9 1/2" (2.0E) LVL WD13 3/ 1 3/4" X9 1/2" (2.0E) LVL WD14A 1/ 1 3/4" X11 7/8" (2.0E) LVL WD14 2/ 1 3/4" X11 7/8" (2.0E) LVL WD15 3/ 1 3/4" X11 7/8" (2.0E) LVL WD16A 1/13/4" X14" (2.0E) LVL WD16 2/13/4" X14" (2.0E) LVL

3/ 1 3/4" X14" (2.0E) LVL ♦ L14 6" X 3-1/∠ ∧ . , ♦ L15 6" X 4" X 1/2" L ♦ L16 7" X 4" X 3/8" L 7" X 4" X 1/2" L 5" X 3-1/2" X 1/4" L

SMOKE ALARM (44) WATERPROOF **DUPLEX OUTLET** 

PLAN/ELEVATION LEGEND

VENTS AND INTAKES HOSE BIB

 $\langle 38 \rangle$ **EXHAUST FAN** COLD CELLAR VENT (50)

Richmond Hill

marketing name

STOVE VENT FIRE PLACE VENT DRYER VENT

CARBON MONOXIDE 45 ALARM (CMA) DOUBLE JOIST

LUMBER GT GIRDER TRUSS ABOVE FINISHED FLOOR **BBFM** BEAM BY FLOOR MANUF

PRESSURE TREATED

FLUSH DROPPED REPEAT SAME IOIST SIZE 'DO UNDER SIDE U/S FIXED GLAZING GLASS BLOCK

**BLACK GLASS** 



POINT LOAD FLAT ARCH



EXT. LIGHT FIXTURE (WALL MOUNTED)

FLOOR DRAIN

HYDRO METER

 $(\mathbf{H})$ (**G**)

GAS METER

I, MARTHA SANDOVAL DECLARE THAT I HAVE REVIEWED AND TAKEN DESIGN RESPONSIBILITY FOR THE DESIGN WORK ON BEHALF OF RN DESIGN LTD, UNDER DIVISION C, PART-3 SUBSECTION-3.2.4 OF THE BUILDING CODE. I AM QUALIFIED AND THE FIRM IS REGISTERED IN THE APPROPRIATE CLASSES /

QUALIFIED DESIGNER BCIN: DATE:



JUNE 3, 2021

2/ 2" X 10" SPR 2/ 2" X 12" SPR

3-1/2" X 3-1/2" X 1/4" L

5" X 3-1/2" X 1/4" I

Royal Pine Homes Ltd.

**♦**L12

Centrefield, Ph. 2

WD17

LINTELS

♦L10 5" X 3-1/2" X 5/16" L

5" X 3-1/2" X 3/8" L

6" X 3-1/2" X 5/16" L

revisions date dwn chk # revisions date dwn chk ISSUED FOR CLIENT REVIEW PM MSA 8 ISSUED FOR CLIENT REVIEW 20-AUG-20 KC 22-Oct-19 MSA ISSUED FOR PERMIT MS 7 REV PER ENG COMMENTS МD СМ 28-Apr-21 MD CM ISSUED FOR CLIENT REVIEW JD MSA 9 ISSUED FOR CLIENT REVIEW 4-May-21 HZ MSA 10 REVISED PER ENGINEER COMMENTS 8 ISSUED FOR CLIENT REVIEW MD СМ



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project # 3/16" = 1'0" 20005

page