

### Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

|                                                                                                                                                                                                                                                              |                |                                                                                      |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------------------------------------------------------------------|---------------------|
| <b>A. Project Information</b>                                                                                                                                                                                                                                |                |                                                                                      |                     |
| Building number, street name                                                                                                                                                                                                                                 |                | Unit no.                                                                             | Lot/con.            |
| Municipality                                                                                                                                                                                                                                                 | Postal code    | Plan number/ other description                                                       |                     |
| INNISFIL                                                                                                                                                                                                                                                     |                |                                                                                      |                     |
| <b>B. Individual who reviews and takes responsibility for design activities</b>                                                                                                                                                                              |                |                                                                                      |                     |
| Name                                                                                                                                                                                                                                                         |                | Firm                                                                                 |                     |
| MICHAEL O'ROURKE                                                                                                                                                                                                                                             |                | HVAC DESIGNS LTD.                                                                    |                     |
| Street address                                                                                                                                                                                                                                               |                | Unit no.                                                                             | Lot/con.            |
| 375 FINLEY AVE                                                                                                                                                                                                                                               |                | 202                                                                                  | N/A                 |
| Municipality                                                                                                                                                                                                                                                 | Postal code    | Province                                                                             | E-mail              |
| AJAX                                                                                                                                                                                                                                                         | L1S 2E2        | ONTARIO                                                                              | info@hvacdesigns.ca |
| Telephone number                                                                                                                                                                                                                                             | Fax number     | Cell number                                                                          |                     |
| (905) 619-2300                                                                                                                                                                                                                                               | (905) 619-2375 | ( )                                                                                  |                     |
| <b>C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1 OF Division C]</b>                                                                                                                                    |                |                                                                                      |                     |
| <input type="checkbox"/> House <input checked="" type="checkbox"/> HVAC – House <input type="checkbox"/> Building Structural                                                                                                                                 |                |                                                                                      |                     |
| <input type="checkbox"/> Small Buildings <input type="checkbox"/> Building Services <input type="checkbox"/> Plumbing – House                                                                                                                                |                |                                                                                      |                     |
| <input type="checkbox"/> Large Buildings <input type="checkbox"/> Detection, Lighting and Power <input type="checkbox"/> Plumbing – All Buildings                                                                                                            |                |                                                                                      |                     |
| <input type="checkbox"/> Complex Buildings <input type="checkbox"/> Fire Protection <input type="checkbox"/> On-site Sewage Systems                                                                                                                          |                |                                                                                      |                     |
| Description of designer's work                                                                                                                                                                                                                               |                | Model: 32-6-15                                                                       |                     |
| HEAT LOSS / GAIN CALCULATIONS                                                                                                                                                                                                                                |                |                                                                                      |                     |
| DUCT SIZING                                                                                                                                                                                                                                                  |                |                                                                                      |                     |
| RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY                                                                                                                                                                                                            |                | Project: ALCONA                                                                      |                     |
| RESIDENTIAL SYSTEM DESIGN per CSA-F280-12                                                                                                                                                                                                                    |                |                                                                                      |                     |
| <b>D. Declaration of Designer</b>                                                                                                                                                                                                                            |                |                                                                                      |                     |
| I <u>MICHAEL O'ROURKE</u>                                                                                                                                                                                                                                    |                | declare that (choose one as appropriate):                                            |                     |
| (print name)                                                                                                                                                                                                                                                 |                |                                                                                      |                     |
| <input type="checkbox"/> I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4. of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. |                |                                                                                      |                     |
| Individual BCIN: _____                                                                                                                                                                                                                                       |                |                                                                                      |                     |
| Firm BCIN: _____                                                                                                                                                                                                                                             |                |                                                                                      |                     |
| <input checked="" type="checkbox"/> I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5. of Division C, of the Building Code.                                         |                |                                                                                      |                     |
| Individual BCIN: 19669                                                                                                                                                                                                                                       |                |                                                                                      |                     |
| Basis for exemption from registration and qualification: O.B.C SENTENCE 3.2.4.1 (4)                                                                                                                                                                          |                |                                                                                      |                     |
| <input type="checkbox"/> The design work is exempt from the registration and qualification requirements of the Building Code.                                                                                                                                |                |                                                                                      |                     |
| Basis for exemption from registration and qualification: _____                                                                                                                                                                                               |                |                                                                                      |                     |
| I certify that:                                                                                                                                                                                                                                              |                |                                                                                      |                     |
| 1. The information contained in this schedule is true to the best of my knowledge.                                                                                                                                                                           |                |                                                                                      |                     |
| 2. I have submitted this application with the knowledge and consent of the firm.                                                                                                                                                                             |                |                                                                                      |                     |
| June 23, 2017                                                                                                                                                                                                                                                |                |  |                     |
| Date                                                                                                                                                                                                                                                         |                | Signature of Designer                                                                |                     |

NOTE:

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d). of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

| SITE NAME: ALCONA             |      |       | TYPE: 32-6-16    |      |      | DATE: Jun-17     |      |      | WINTER NATURAL AIR CHANGE RATE 0.332 |      |      | HEAT LOSS AT F. 83 |      |       | CSA-F280-12       |       |      |
|-------------------------------|------|-------|------------------|------|------|------------------|------|------|--------------------------------------|------|------|--------------------|------|-------|-------------------|-------|------|
| BUILDER: BAYVIEW WELLINGTON   |      |       | GFA: 1980        |      |      | LOF: 74985       |      |      | SUMMER NATURAL AIR CHANGE RATE 0.089 |      |      | HEAT GAIN AT F. 13 |      |       | SB-12 PACKAGE A1  |       |      |
| ROOM USE                      |      |       | MBR              |      |      | BED-2            |      |      | BATH                                 |      |      | WOD                |      |       | BAS               |       |      |
| EXP. WALL CLG. HT.            |      |       | 36<br>9          |      |      | 27<br>9          |      |      | 35<br>9                              |      |      | 36<br>9            |      |       | 142<br>9          |       |      |
| GRL WALL AREA GLAZING         |      |       | 324<br>LOSS GAIN |      |      | 243<br>LOSS GAIN |      |      | 316<br>LOSS GAIN                     |      |      | 324<br>LOSS GAIN   |      |       | 1088<br>LOSS GAIN |       |      |
| NORTH                         | 23.3 | 16.9  | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| EAST                          | 23.3 | 41.5  | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| SOUTH                         | 23.3 | 24.9  | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| WEST                          | 23.3 | 41.5  | 32               | 746  | 1329 | 16               | 373  | 664  | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| SKYL.T.                       | 40.8 | 101.5 | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| DOORS                         | 27.6 | 4.2   | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| NET EXPOSED WALL              | 43.9 | 0.7   | 292              | 1427 | 216  | 200              | 977  | 149  | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| NET EXPOSED BMT WALL ABOVE GR | 3.9  | 0.6   | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| NO ATTIC EXPOSED CLG          | 1.4  | 0.8   | 315              | 443  | 185  | 144              | 202  | 84   | 192                                  | 270  | 113  | 168                | 235  | 98    | 228               | 320   | 134  |
| EXPOSED FLOOR                 | 2.8  | 0.4   | 0                | 0    | 0    | 0                | 0    | 0    | 9                                    | 25   | 4    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| BASEMENT/RAWL HEAT LOSS       | 0    | 0     | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| SLAB ON GRADE HEAT LOSS       | 0    | 0     | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| SUBTOTAL HT LOSS              | 2876 | 1731  | 1552             | 898  | 2593 | 1386             | 892  | 2326 | 1351                                 | 226  | 1351 | 1374               | 544  | 6330  | 274               | 6537  | 60   |
| LEVEL FACTOR / MULTIPLIER     | 0.20 | 0.23  | 0.20             | 0.23 | 0.20 | 0.23             | 0.20 | 0.23 | 0.20                                 | 0.23 | 0.20 | 0.23               | 0.20 | 0.23  | 0.20              | 0.23  | 0.20 |
| AIR CHANGE HEAT LOSS          | 614  | 125   | 365              | 66   | 632  | 141              | 325  | 65   | 646                                  | 59   | 646  | 59                 | 646  | 59    | 646               | 59    | 646  |
| AIR CHANGE HEAT GAIN          | 0    | 0     | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| DUCT LOSS                     | 0    | 0     | 0                | 0    | 0    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| HEAT GAIN PEOPLE              | 240  | 0     | 0                | 0    | 1    | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| HEAT GAIN APPLIANCE LIGHTS    | 711  | 0     | 0                | 0    | 711  | 0                | 0    | 0    | 0                                    | 0    | 0    | 0                  | 0    | 0     | 0                 | 0     | 0    |
| TOTAL HT LOSS BTU/H           | 3229 | 1917  | 1253             | 8612 | 3658 | 1711             | 2480 | 3160 | 2973                                 | 2973 | 2973 | 1374               | 707  | 12867 | 1358              | 12867 | 1358 |
| TOTAL HT GAIN x 1.3 BTU/H     | 3882 |       |                  |      |      |                  |      |      |                                      |      |      |                    |      |       |                   |       |      |

| ROOM USE                      |      |       | KLD              |      |      | LAUN            |      |      | WIR              |      |      | FOY             |      |      | MUD             |      |      | WOD              |      |      | BAS               |      |      |
|-------------------------------|------|-------|------------------|------|------|-----------------|------|------|------------------|------|------|-----------------|------|------|-----------------|------|------|------------------|------|------|-------------------|------|------|
| EXP. WALL CLG. HT.            |      |       | 69<br>10         |      |      | 7<br>9          |      |      | 12<br>11         |      |      | 51<br>11        |      |      | 9<br>11         |      |      | 36<br>9          |      |      | 142<br>9          |      |      |
| GRL WALL AREA GLAZING         |      |       | 680<br>LOSS GAIN |      |      | 63<br>LOSS GAIN |      |      | 132<br>LOSS GAIN |      |      | 56<br>LOSS GAIN |      |      | 99<br>LOSS GAIN |      |      | 324<br>LOSS GAIN |      |      | 1088<br>LOSS GAIN |      |      |
| NORTH                         | 23.3 | 15.9  | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| EAST                          | 23.3 | 41.5  | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| SOUTH                         | 23.3 | 24.9  | 28               | 652  | 695  | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| WEST                          | 23.3 | 41.5  | 95               | 2213 | 3545 | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| SKYL.T.                       | 40.8 | 101.5 | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| DOORS                         | 27.6 | 4.2   | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| NET EXPOSED WALL              | 4.9  | 0.7   | 567              | 2770 | 423  | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| NET EXPOSED BMT WALL ABOVE GR | 3.9  | 0.6   | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| NO ATTIC EXPOSED CLG          | 1.4  | 0.8   | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| EXPOSED FLOOR                 | 3.0  | 1.3   | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| BASEMENT/RAWL HEAT LOSS       | 2.8  | 0.4   | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| SLAB ON GRADE HEAT LOSS       | 0    | 0     | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| SUBTOTAL HT LOSS              | 6535 | 6064  | 6535             | 6064 | 6535 | 6535            | 6064 | 6535 | 6064             | 6535 | 6064 | 6535            | 6064 | 6535 | 6064            | 6535 | 6064 | 6535             | 6064 | 6535 | 6064              | 6535 | 6064 |
| LEVEL FACTOR / MULTIPLIER     | 0.20 | 0.36  | 0.20             | 0.36 | 0.20 | 0.36            | 0.20 | 0.36 | 0.20             | 0.36 | 0.20 | 0.36            | 0.20 | 0.36 | 0.20            | 0.36 | 0.20 | 0.36             | 0.20 | 0.36 | 0.20              | 0.36 | 0.20 |
| AIR CHANGE HEAT LOSS          | 2035 | 370   | 2035             | 370  | 2035 | 370             | 2035 | 370  | 2035             | 370  | 2035 | 370             | 2035 | 370  | 2035            | 370  | 2035 | 370              | 2035 | 370  | 2035              | 370  | 2035 |
| AIR CHANGE HEAT GAIN          | 0    | 0     | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| DUCT LOSS                     | 0    | 0     | 0                | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| HEAT GAIN PEOPLE              | 240  | 0     | 2                | 480  | 711  | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| HEAT GAIN APPLIANCE LIGHTS    | 711  | 0     | 711              | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0               | 0    | 0    | 0               | 0    | 0    | 0                | 0    | 0    | 0                 | 0    | 0    |
| TOTAL HT LOSS BTU/H           | 7672 | 8612  | 7672             | 8612 | 7672 | 8612            | 7672 | 8612 | 7672             | 8612 | 7672 | 8612            | 7672 | 8612 | 7672            | 8612 | 7672 | 8612             | 7672 | 8612 | 7672              | 8612 | 7672 |
| TOTAL HT GAIN x 1.3 BTU/H     | 8612 |       | 8612             |      | 8612 |                 | 8612 |      | 8612             |      | 8612 |                 | 8612 |      | 8612            |      | 8612 |                  | 8612 |      | 8612              |      | 8612 |

TOTAL HEAT GAIN BTU/H: 28798      TONS: 2.40      LOSS DUE TO VENTILATION LOAD BTU/H: 3122      STRUCTURAL HEAT LOSS: 42465      TOTAL COMBINED HEAT LOSS BTU/H: 46578

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

*Michael O'Rourke*

INDIVIDUAL BCIN: 19659      MICHAEL O'Rourke

### **Town of Innisfil Certified Model**

03/01/2018 12:04:35 PM Agervais

[illegible]

| 1    | 2    | 3                         | 4     | 5     | 6    | 7     | 8    | 9     | 10    | 11   | 12   | 13   | 14   | 15   | 16   | 17   | 18   | 19   | 20   | 21   | 22   | 23   | 24   |
|------|------|---------------------------|-------|-------|------|-------|------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MBR  | ENS  | ROOM NAME                 | BED-4 | BED-5 | BATH | BED-2 | MBR  | K/L/D | K/L/D | LAUN | WIR  | WIR  | FOY  | MJD  | BAS  | BAS  | BAS  | BAS  | BAS  | BAS  | BAS  | BAS  | BAS  |
| 1.61 | 1.92 | RM LOSS MRH               | 1.83  | 1.71  | 3.16 | 1.83  | 1.61 | 2.56  | 2.56  | 0.76 | 0.88 | 4.95 | 1.28 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 | 3.56 |
| 37   | 44   | CFM PER RUN HEAT          | 42    | 39    | 72   | 42    | 37   | 59    | 59    | 17   | 20   | 113  | 29   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   | 82   |
| 1.98 | 1.25 | RM GAIN MRH               | 2.16  | 2.48  | 2.07 | 2.16  | 1.98 | 2.87  | 2.87  | 1.21 | 0.14 | 1.09 | 1.12 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 | 0.52 |
| 70   | 44   | CFM PER RUN COOLING       | 76    | 87    | 73   | 76    | 70   | 101   | 101   | 42   | 5    | 38   | 39   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   | 18   |
| 0.17 | 0.17 | ADJUSTED PRESSURE         | 0.17  | 0.16  | 0.17 | 0.17  | 0.17 | 0.16  | 0.16  | 0.17 | 0.17 | 0.15 | 0.15 | 0.17 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 | 0.16 |
| 60   | 35   | ACTUAL DUCT LGH.          | 35    | 27    | 60   | 44    | 53   | 26    | 37    | 37   | 22   | 28   | 14   | 30   | 17   | 9    | 20   | 20   | 20   | 20   | 20   | 20   | 20   |
| 120  | 200  | EQUIVALENT LENGTH         | 140   | 220   | 120  | 150   | 110  | 150   | 120   | 160  | 160  | 120  | 100  | 110  | 130  | 150  | 100  | 100  | 100  | 100  | 100  | 100  | 100  |
| 180  | 235  | TOTAL EFFECTIVE LENGTH    | 175   | 247   | 164  | 189   | 163  | 171   | 146   | 137  | 197  | 182  | 146  | 171  | 140  | 147  | 159  | 120  | 147  | 159  | 120  | 147  | 159  |
| 0.1  | 0.07 | ADJUSTED PRESSURE         | 0.1   | 0.07  | 0.1  | 0.09  | 0.11 | 0.09  | 0.11  | 0.09 | 0.09 | 0.1  | 0.1  | 0.12 | 0.11 | 0.1  | 0.1  | 0.1  | 0.12 | 0.11 | 0.1  | 0.1  | 0.1  |
| 5    | 5    | ROUND DUCT SIZE           | 5     | 6     | 5    | 5     | 5    | 5     | 5     | 5    | 4    | 4    | 6    | 4    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |
| 272  | 323  | HEATING VELOCITY (ft/min) | 308   | 199   | 529  | 308   | 272  | 301   | 433   | 195  | 229  | 576  | 333  | 602  | 602  | 602  | 602  | 602  | 602  | 602  | 602  | 602  | 602  |
| 514  | 323  | COOLING VELOCITY (ft/min) | 556   | 444   | 536  | 558   | 514  | 515   | 742   | 482  | 57   | 194  | 447  | 132  | 132  | 132  | 132  | 132  | 132  | 132  | 132  | 132  | 132  |
| 3X10 | 3X10 | OUTLET GRILL SIZE         | 3X10  | 4X10  | 3X10 | 3X10  | 3X10 | 4X10  | 3X10  | 3X10 | 3X10 | 4X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 | 3X10 |
| 3X10 | A    | TRUNK                     | B     | A     | B    | B     | A    | A     | A     | B    | B    | B    | B    | B    | A    | B    | B    | B    | B    | A    | B    | B    | B    |

| RUN #                     | ROOM NAME |
|---------------------------|-----------|
| RM LOSS MBH.              |           |
| CFM PER RUN HEAT          |           |
| RM GAIN MBH.              |           |
| CFM PER RUN COOLING       |           |
| ADJUSTED PRESSURE         |           |
| ACTUAL DUCT LGH.          |           |
| EQUIVALENT LENGTH         |           |
| TOTAL EFFECTIVE LENGTH    |           |
| ADJUSTED PRESSURE         |           |
| ROUND DUCT SIZE           |           |
| HEATING VELOCITY (ft/min) |           |
| COOLING VELOCITY (ft/min) |           |
| OUTLET GRILL SIZE         |           |
| TRUNK                     |           |

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I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED IN THE APPROPRIATE CATEGORY AS AN "OTHER DESIGNER" UNDER DIVISION C, 3.2.5 OF THE BUILDING CODE.

MICHAEL O'ROURKE

TYPE: 32-6-15  
SITE NAME: ALCONA

LO # 74585

RESIDENTIAL MECHANICAL VENTILATION DESIGN SUMMARY

COMBUSTION APPLIANCES 9.32.3.1(1)

☒ a) Direct Vent (sealed combustion) only

☐ b) Positive venting induced draft (except fireplaces)

☐ c) Natural draft, B-vent or induced draft gas fireplace

☐ d) Solid Fuel (including fireplaces)

☐ e) No Combustion Appliances

HEATING SYSTEM

☒ Forced Air

☐ Electric Space Heat

HOUSE TYPE 9.32.1(2)

☒ I Type a) or b) appliance only, no solid fuel

☐ II Type I except with solid fuel (including fireplaces)

☐ III Any Type c) appliance

☐ IV Type I, or II with electric space heat

☐ Other: Type I, II or IV no forced air

SYSTEM DESIGN OPTIONS O.N.H.W.P.

☐ 1 Exhaust only/Forced Air System

☐ 2 HRV with Ducting/Forced Air System

☒ 3 HRV Simplified/connected to forced air system

☐ 4 HRV with Ducting/non forced air system

☐ Part 6 Design

TOTAL VENTILATION CAPACITY 9.32.3.3(1)

|                           |   |            |       |     |
|---------------------------|---|------------|-------|-----|
| Basement + Master Bedroom | 2 | @ 21.2 cfm | 42.4  | cfm |
| Other Bedrooms            | 2 | @ 10.6 cfm | 21.2  | cfm |
| Kitchen & Bathrooms       | 4 | @ 10.6 cfm | 42.4  | cfm |
| Other Rooms               | 5 | @ 10.6 cfm | 53.0  | cfm |
| TOTAL                     |   |            | 159.0 | cfm |

Table 9.32.3.A.

PRINCIPAL VENTILATION CAPACITY REQUIRED 9.32.3.4(1)

|       |         |      |     |
|-------|---------|------|-----|
| 1     | Bedroom | 31.8 | cfm |
| 2     | Bedroom | 47.7 | cfm |
| 3     | Bedroom | 63.6 | cfm |
| 4     | Bedroom | 79.5 | cfm |
| 5     | Bedroom | 95.4 | cfm |
| TOTAL |         | 63.6 | cfm |

SUPPLEMENTAL VENTILATION CAPACITY 9.32.3.5.

|                                |      |     |
|--------------------------------|------|-----|
| Total Ventilation Capacity     | 159  | cfm |
| Less Principal Vent. Capacity  | 139  | cfm |
| Required Supplemental Capacity | 20.0 | cfm |

PRINCIPAL EXHAUST FAN CAPACITY

Model: VANEE 60H-V+ Location: BSMT

139.0 cfm 3.0 zones ☒ HVI Approved

PRINCIPAL EXHAUST HEAT LOSS CALCULATION

|           |       |        |        |
|-----------|-------|--------|--------|
| CFM       | AT °F | Factor | % LOSS |
| 139.0 CFM | X     | 83 F   | X      |
|           |       | 1.08   | X      |
|           |       | 0.25   |        |

SUPPLEMENTAL FANS

| Location | Model     | cfm | HVI                                 | Sones |
|----------|-----------|-----|-------------------------------------|-------|
| ENS      | QTXEN050C | 50  | <input checked="" type="checkbox"/> | 0.3   |
| BATH     | QTXEN050C | 50  | <input checked="" type="checkbox"/> | 0.3   |
| W/R      | QTXEN050C | 50  | <input checked="" type="checkbox"/> | 0.3   |

HEAT RECOVERY VENTILATOR 9.32.3.11.

|                                            |                                                  |    |         |
|--------------------------------------------|--------------------------------------------------|----|---------|
| Model: VANEE 60H-V+                        | cfm high                                         | 50 | cfm low |
| % Sensible Efficiency @ 32 deg F (0 deg C) | <input checked="" type="checkbox"/> HVI Approved | 75 |         |

LOCATION OF INSTALLATION

Lot: Concession

Township: Plan:

Address: Building Permit #

Roll #

BUILDER: BAYVIEW WELLINGTON

Name: Address: City: Telephone #: Fax #:

INSTALLING CONTRACTOR

Name: Address: City: Telephone #: Fax #:

DESIGNER CERTIFICATION

I hereby certify that the ventilation system has been designed in accordance with the Ontario Building Code.

Name: HVAC Designs Ltd.

Signature: Michael O'Rourke

HRAL # 001820

Date: June-17

INDIVIDUAL BCIN: 19669

MICHAEL O'ROURKE

I REVIEW AND TAKE RESPONSIBILITY FOR THE DESIGN WORK AND AM QUALIFIED BY THE APPROPRIATE CATEGORY AS AN OTHER DESIGNER UNDER DIVISION C.3.2.5 OF THE BUILDING CODE.



375 Finley Ave. Suite 202 Ajax, ON L1S 2E2  
Tel: 905.619.2300 Fax: 905.619.2375

Web: www.hvacdesigns.ca E-mail: info@hvacdesigns.ca

HEAT LOSS AND GAIN SUMMARY SHEET

|        |         |          |                    |
|--------|---------|----------|--------------------|
| MODEL: | 32-6-15 | BUILDER: | BAYVIEW WELLINGTON |
| SFQT:  | 1950    | LO#      | 74585              |
|        |         | SITE:    | ALCONA             |

DESIGN ASSUMPTIONS

|                      |     |                                |    |
|----------------------|-----|--------------------------------|----|
| HEATING              | °F  | COOLING                        | °F |
| OUTDOOR DESIGN TEMP. | -11 | OUTDOOR DESIGN TEMP.           | 84 |
| INDOOR DESIGN TEMP.  | 72  | INDOOR DESIGN TEMP. (MAX 75°F) | 72 |

BUILDING DATA

|                                     |                 |                           |          |
|-------------------------------------|-----------------|---------------------------|----------|
| ATTACHMENT:                         | DETACHED        | # OF STORIES (+BASEMENT): | 3        |
| FRONT FACES:                        | EAST            | ASSUMED (Y/N):            | Y        |
| AIR CHANGES PER HOUR:               | 3.57            | ASSUMED (Y/N):            | Y        |
| AIR TIGHTNESS CATEGORY:             | AVERAGE         | ASSUMED (Y/N):            | Y        |
| WIND EXPOSURE:                      | SHELTERED       | ASSUMED (Y/N):            | Y        |
| HOUSE VOLUME (ft³):                 | 26453.0         | ASSUMED (Y/N):            | Y        |
| INTERNAL SHADING:                   | BLINDS/CURTAINS | ASSUMED OCCUPANTS:        | 4        |
| INTERIOR LIGHTING LOAD (Btu/h/ft²): | 1.75            | DC BRUSHLESS MOTOR (Y/N): | Y        |
| FOUNDATION CONFIGURATION            | BCIN_1          | DEPTH BELOW GRADE:        | 6.0 ft   |
| LENGTH:                             | 44.0 ft         | WIDTH:                    | 27.0 ft  |
|                                     |                 | EXPOSED PERIMETER:        | 142.0 ft |

| Component                                                                  | 2012 OBC - COMPLIANCE PACKAGE |           |
|----------------------------------------------------------------------------|-------------------------------|-----------|
|                                                                            | Compliance Package            |           |
|                                                                            | A1                            |           |
|                                                                            | Nominal                       | Min. Eff. |
| Ceiling with Attic Space Minimum RSI (R)-Value                             | 60                            | 59.22     |
| Ceiling Without Attic Space Minimum RSI (R)-Value                          | 31                            | 27.65     |
| Exposed Floor Minimum RSI (R)-Value                                        | 31                            | 29.8      |
| Walls Above Grade Minimum RSI (R)-Value                                    | 22                            | 17.03     |
| Basement Walls Minimum RSI (R)-Value                                       | 20 ci                         | 21.12     |
| Below Grade Slab Entire surface > 600 mm below grade Minimum RSI (R)-Value | -                             | -         |
| Edge of Below Grade Slab ≤ 600 mm Below Grade Minimum RSI (R)-Value        | 10                            | 10        |
| Heated Slab or Slab ≤ 600 mm below grade Minimum RSI (R)-Value             | 10                            | 11.13     |
| Windows and Sliding Glass Doors Maximum U-Value                            | 0.28                          | -         |
| Skylights Maximum U-Value                                                  | 0.49                          | -         |
| Space Heating Equipment Minimum AFUE                                       | 0.96                          | -         |
| HRV Minimum Efficiency                                                     | 75%                           | -         |
| Domestic Hot Water Heater Minimum EF                                       | 0.8                           | -         |

INDIVIDUAL BCIN: 19669  
MICHAEL O'ROURKE

*Michael O'Rourke*

Residential Foundation Thermal Load Calculator

Supplemental tool for CAN/CSA-F280

|                                                              |      |                                                                                      |
|--------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| Weather Station Description                                  |      |                                                                                      |
| Province: Ontario                                            |      |                                                                                      |
| Region: Barrie                                               |      |                                                                                      |
| Site Description                                             |      |                                                                                      |
| Soil Conductivity: Normal conductivity: dry sand, loam, clay |      |                                                                                      |
| Water Table: Normal (7-10 m, 23-33 ft)                       |      |                                                                                      |
| Foundation Dimensions                                        |      |                                                                                      |
| Floor Length (m):                                            | 13.4 |  |
| Floor Width (m):                                             | 8.2  |                                                                                      |
| Exposed Perimeter (m):                                       | 0.0  |                                                                                      |
| Wall Height (m):                                             | 2.7  |                                                                                      |
| Depth Below Grade (m):                                       | 1.83 |                                                                                      |
| Window Area (m²):                                            | 2.9  |                                                                                      |
| Door Area (m²):                                              | 1.9  |                                                                                      |
| Radiant Slab                                                 |      |                                                                                      |
| Heated Fraction of the Slab:                                 | 0    |                                                                                      |
| Fluid Temperature (°C):                                      | 33   |                                                                                      |
| Design Months                                                |      |                                                                                      |
| Heating Month                                                | 1    |                                                                                      |
| Foundation Loads                                             |      |                                                                                      |
| Heating Load (Watts): 1423                                   |      |                                                                                      |



HVAC Designs Ltd.  
375 Finley Ave, Suite 202  
Ajax ON, L1S 2E2  
905-619-2300

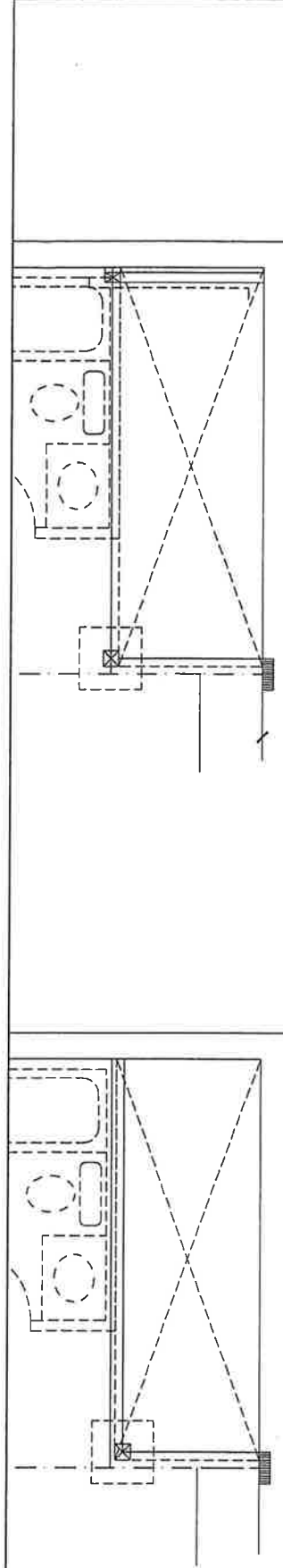
# Air Infiltration Residential Load Calculator

Supplemental tool for CAN/CSA-F280

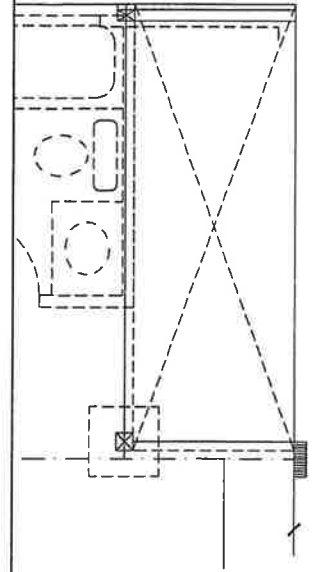
| Weather Station Description       |                            |               |    |
|-----------------------------------|----------------------------|---------------|----|
| Province:                         | Ontario                    |               |    |
| Region:                           | Barrie                     |               |    |
| Weather Station Location:         | Open flat terrain, grass   |               |    |
| Anemometer height (m):            | 10                         |               |    |
| Local Shielding                   |                            |               |    |
| Building Site:                    | Suburban, forest           |               |    |
| Walls:                            | Heavy                      |               |    |
| Flue:                             | Heavy                      |               |    |
| Highest Ceiling Height (m):       | 6.71                       |               |    |
| Building Configuration            |                            |               |    |
| Type:                             | Detached                   |               |    |
| Number of Stories:                | Two                        |               |    |
| Foundation:                       | Full                       |               |    |
| House Volume (m³):                | 749.1                      |               |    |
| Air Leakage/Ventilation           |                            |               |    |
| Air Tightness Type:               | Present (1961-) (3.57 ACH) |               |    |
| Custom BDT Data:                  | ELA @ 10 Pa.               | 998.5 cm²     |    |
|                                   | 3.57                       | ACH @ 50 Pa   |    |
| Mechanical Ventilation (L/s):     | Total Supply               | Total Exhaust |    |
|                                   | 65.6                       | 65.6          |    |
| Flue Size                         |                            |               |    |
| Flue #:                           | #1                         | #2            | #3 |
| Diameter (mm):                    | 0                          | 0             | 0  |
|                                   |                            |               | #4 |
|                                   |                            |               | 0  |
| Natural Infiltration Rates        |                            |               |    |
| Heating Air Leakage Rate (ACH/H): |                            | 0.332         |    |
| Cooling Air Leakage Rate (ACH/H): |                            | 0.089         |    |

TYPE: 32-6-15  
LO# 74585

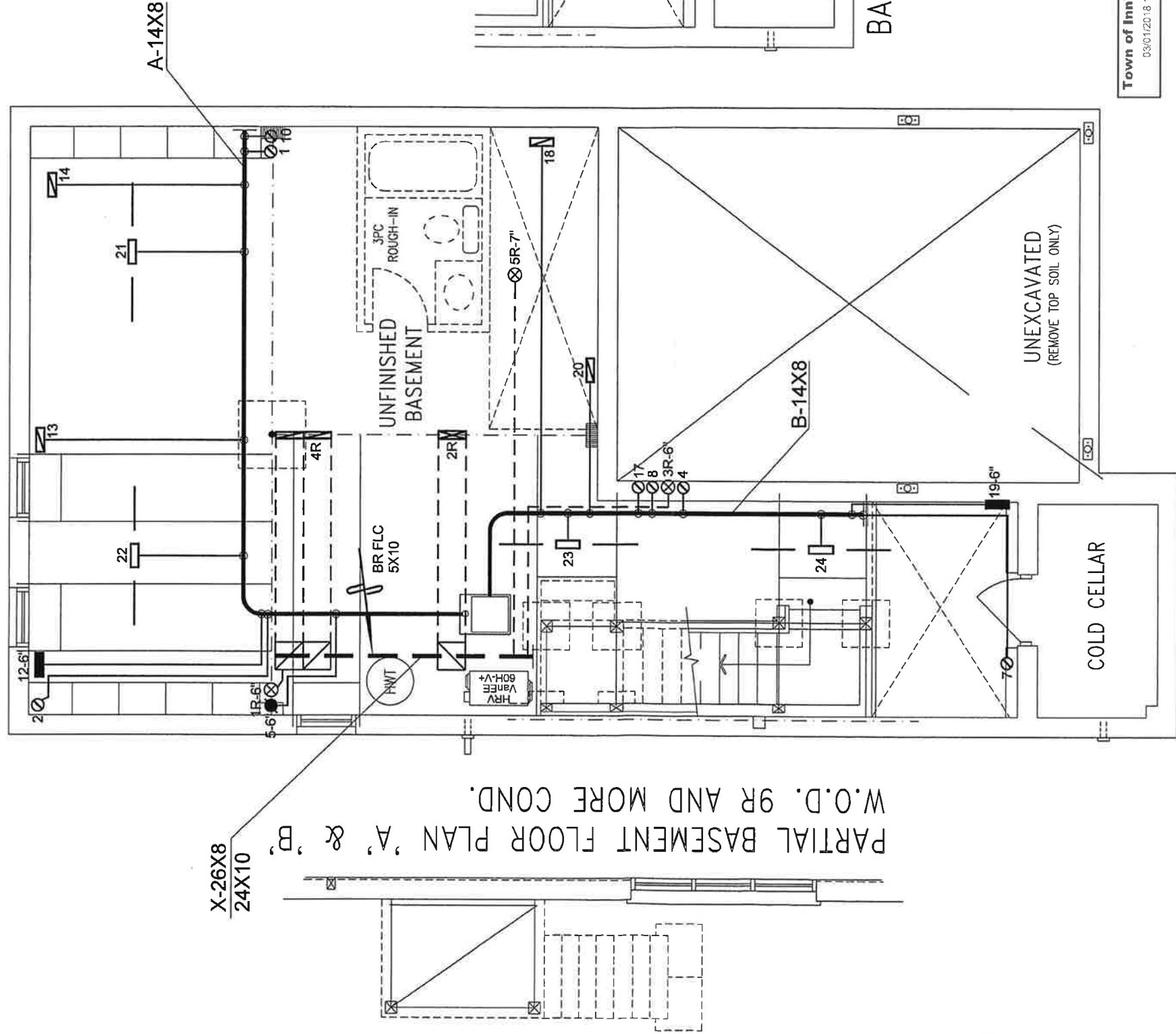




PARTIAL BASEMENT PLAN W/  
SUNKEN P.W.D. & LANDING ABOVE  
(-1R CONDITION)



PARTIAL BASEMENT PLAN W/  
SUNKEN P.W.D. & LANDING ABOVE  
(-2R & -3R CONDITION)



I MICHAEL O'DRISKE HAVE REVIEWED AND TAKE RESPONSIBILITY FOR THE ACCURACY OF THESE DRAWINGS UNDER DIVISION C, 1.2.1 OF THE BUILDING CODE.

*Michael O'Driscoll*  
HVAC DESIGNS LTD.

Town of Innisfil Certified Model  
03/01/2018 12:05:00 PM kganals

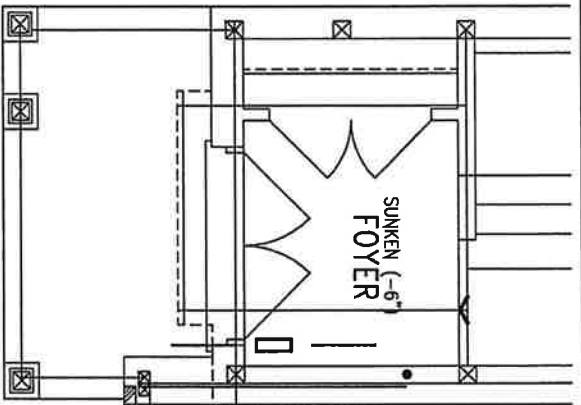
BASEMENT PLAN - ELEVATION 'A'

CSA-F280-12  
PACKAGE A1

| HVAC LEGEND |                                 |        |                              | REVISIONS |                            |      |  |
|-------------|---------------------------------|--------|------------------------------|-----------|----------------------------|------|--|
| SYMBOL      | DESCRIPTION                     | SYMBOL | DESCRIPTION                  | No.       | Description                | Date |  |
|             | FLOOR SUPPLY AIR GRILLE         |        | 14"x8" RETURN AIR GRILLE     | 2.        | RETURN AIR STACK ABOVE     |      |  |
|             | FLOOR SUPPLY AIR GRILLE 6" BOOT |        | 30"x8" RETURN AIR GRILLE     | 1.        | RETURN AIR STACK 2nd FLOOR |      |  |
|             | SUPPLY AIR BOOT ABOVE           |        | FRA- FLOOR RETURN AIR GRILLE | No.       | REDUCER                    |      |  |

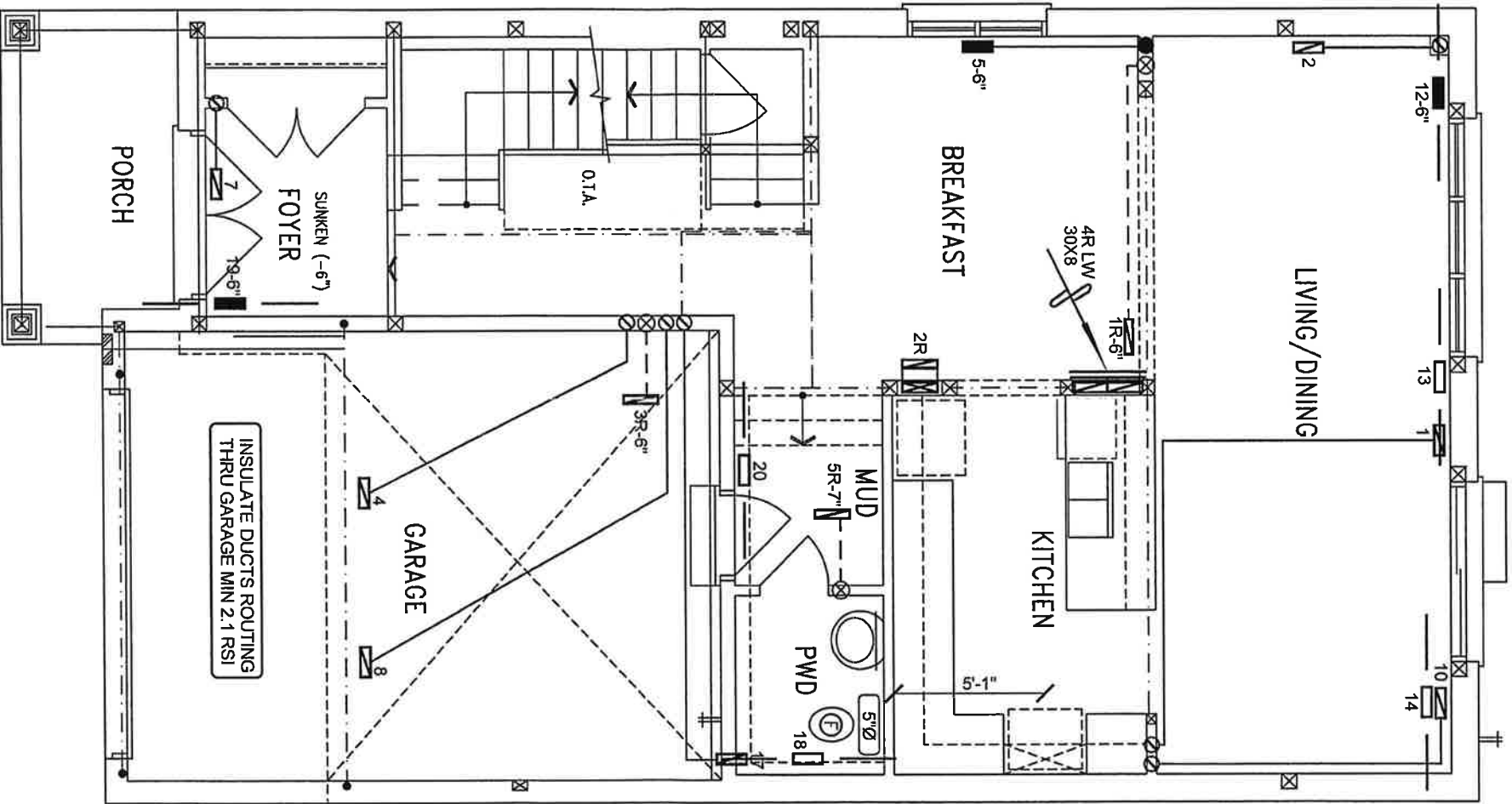
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|                    |  |                                                    |  |  |  |  |  |  |  |  |  |
|--------------------|--|----------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Client             |  | Sheet Title                                        |  |  |  |  |  |  |  |  |  |
| BAYVIEW WELLINGTON |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | HEATING LAYOUT                                     |  |  |  |  |  |  |  |  |  |
| Project Name       |  | Date                                               |  |  |  |  |  |  |  |  |  |
| ALCONA             |  | JUNE/2017                                          |  |  |  |  |  |  |  |  |  |
| INNISFIL, ONTARIO  |  | Scale                                              |  |  |  |  |  |  |  |  |  |
|                    |  | 3/16" = 1'-0"                                      |  |  |  |  |  |  |  |  |  |
|                    |  | BCIN# 19669                                        |  |  |  |  |  |  |  |  |  |
|                    |  | LO# 74585                                          |  |  |  |  |  |  |  |  |  |
|                    |  | DOORS 1" min. FOR R/A                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNLESS NOTED OTHERWISE ON LAYOUT. ALL SIA RUNS 5"Ø |  |  |  |  |  |  |  |  |  |
|                    |  | ON LAYOUT. UNDERCUT                                |  |  |  |  |  |  |  |  |  |
|                    |  | UNLESS NOTED OTHERWISE                             |  |  |  |  |  |  |  |  |  |
|                    |  | ALL SIA DIFFUSERS 4 "x10"                          |  |  |  |  |  |  |  |  |  |
|                    |  | UNLESS NOTED OTHERWISE                             |  |  |  |  |  |  |  |  |  |
|                    |  | ON LAYOUT. ALL SIA RUNS 5"Ø                        |  |  |  |  |  |  |  |  |  |
|                    |  | UNLESS NOTED OTHERWISE                             |  |  |  |  |  |  |  |  |  |
|                    |  | ON LAYOUT. UNDERCUT                                |  |  |  |  |  |  |  |  |  |
|                    |  | DOORS 1" min. FOR R/A                              |  |  |  |  |  |  |  |  |  |
|                    |  | FAN SPEED                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 995                                                |  |  |  |  |  |  |  |  |  |
|                    |  | cfm @                                              |  |  |  |  |  |  |  |  |  |
|                    |  | 0.5" w.c.                                          |  |  |  |  |  |  |  |  |  |
|                    |  | TONS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | 2.5                                                |  |  |  |  |  |  |  |  |  |
|                    |  | COOLING                                            |  |  |  |  |  |  |  |  |  |
|                    |  | 64                                                 |  |  |  |  |  |  |  |  |  |
|                    |  | OUTPUT                                             |  |  |  |  |  |  |  |  |  |
|                    |  | 66                                                 |  |  |  |  |  |  |  |  |  |
|                    |  | INPUT                                              |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  | # OF RUNS                                          |  |  |  |  |  |  |  |  |  |
|                    |  | S/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | R/A                                                |  |  |  |  |  |  |  |  |  |
|                    |  | FANS                                               |  |  |  |  |  |  |  |  |  |
|                    |  | HEAT LOSS 46578 BTU/H                              |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | EL296UH070XE36B                                    |  |  |  |  |  |  |  |  |  |
|                    |  | MODEL                                              |  |  |  |  |  |  |  |  |  |
|                    |  | LENNOX                                             |  |  |  |  |  |  |  |  |  |
|                    |  | MAKE                                               |  |  |  |  |  |  |  |  |  |
|                    |  | UNIT DATA                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 3RD FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 2ND FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | 1ST FLOOR                                          |  |  |  |  |  |  |  |  |  |
|                    |  | BASEMENT                                           |  |  |  |  |  |  |  |  |  |
|                    |  |                                                    |  |  |  |  |  |  |  |  |  |



GROUND FLOOR PLAN – ELEV ‘B’

PARTIAL GROUND FLOOR PLAN ‘A’ & ‘B’  
W.O.D. 9R AND MORE COND.



I MICHAEL, GEORGE HAVE REVIEWED THIS DRAWING AND I AM NOT PROVIDING ANY GUARANTEE OR WARRANTY FOR THE DESIGN WORK AND AM QUALIFIED UNDER DIVISION C, 22.3 OF THE BUILDING CODE.  
*Michael George*  
Michael George, Design Engineer  
HVAC DESIGNS LTD.

| HVAC LEGEND |                                 |        |                                  | 3.  |             |
|-------------|---------------------------------|--------|----------------------------------|-----|-------------|
| SYMBOL      | DESCRIPTION                     | SYMBOL | DESCRIPTION                      | 2.  |             |
|             | FLOOR SUPPLY AIR GRILLE         |        | 6" SUPPLY AIR BOOT ABOVE         | 1.  |             |
|             | FLOOR SUPPLY AIR GRILLE 6" BOOT |        | SUPPLY AIR STACK FROM 2ND FLOOR  | No. | Description |
|             | SUPPLY AIR BOOT ABOVE           |        | 30"x48" RETURN AIR GRILLE        |     |             |
|             |                                 |        | 6" SUPPLY AIR STACK 2ND FLOOR    |     |             |
|             |                                 |        | 6" FRA - FLOOR RETURN AIR GRILLE |     |             |
|             |                                 |        | REDUCER                          |     |             |

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Client

**BAYVIEW WELLINGTON**

Project Name

**ALCONA  
INNISFIL, ONTARIO**

**HVA****DESIGNS LTD.**

375 Finley Ave - Suite 202 - Ajax, Ontario  
L1S 2E2 Tel. 905.619.2300 - 905.420.5300 Fax 905.619.2375  
Email: info@hvacadesigns.ca  
Web: www.hvacadesigns.ca  
Specializing in Residential Mechanical Design Services  
Installation to comply with the latest Ontario Building Code. All supply branch outlets shall be equipped with a manual balancing damper. Ductwork which passes through the garage or untreated spaces shall be adequately insulated and be gas-proofed.

Sheet Title

**FIRST FLOOR  
HEATING  
LAYOUT**

Date  
**JUNE/2017**

Scale  
**3/16" = 1'-0"**

BCIN# 19669

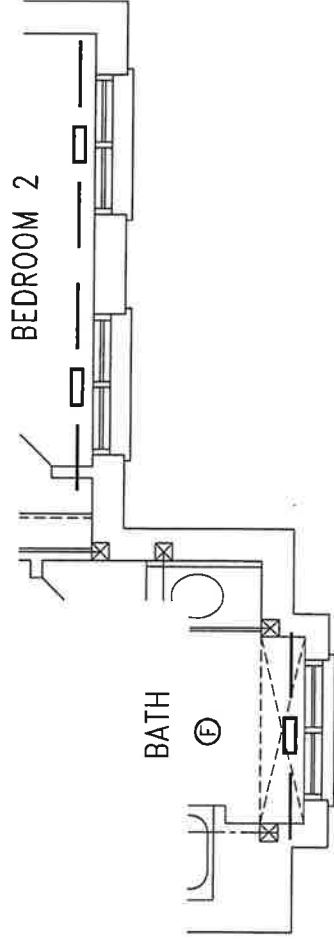
LO# **74585**

32-6-15

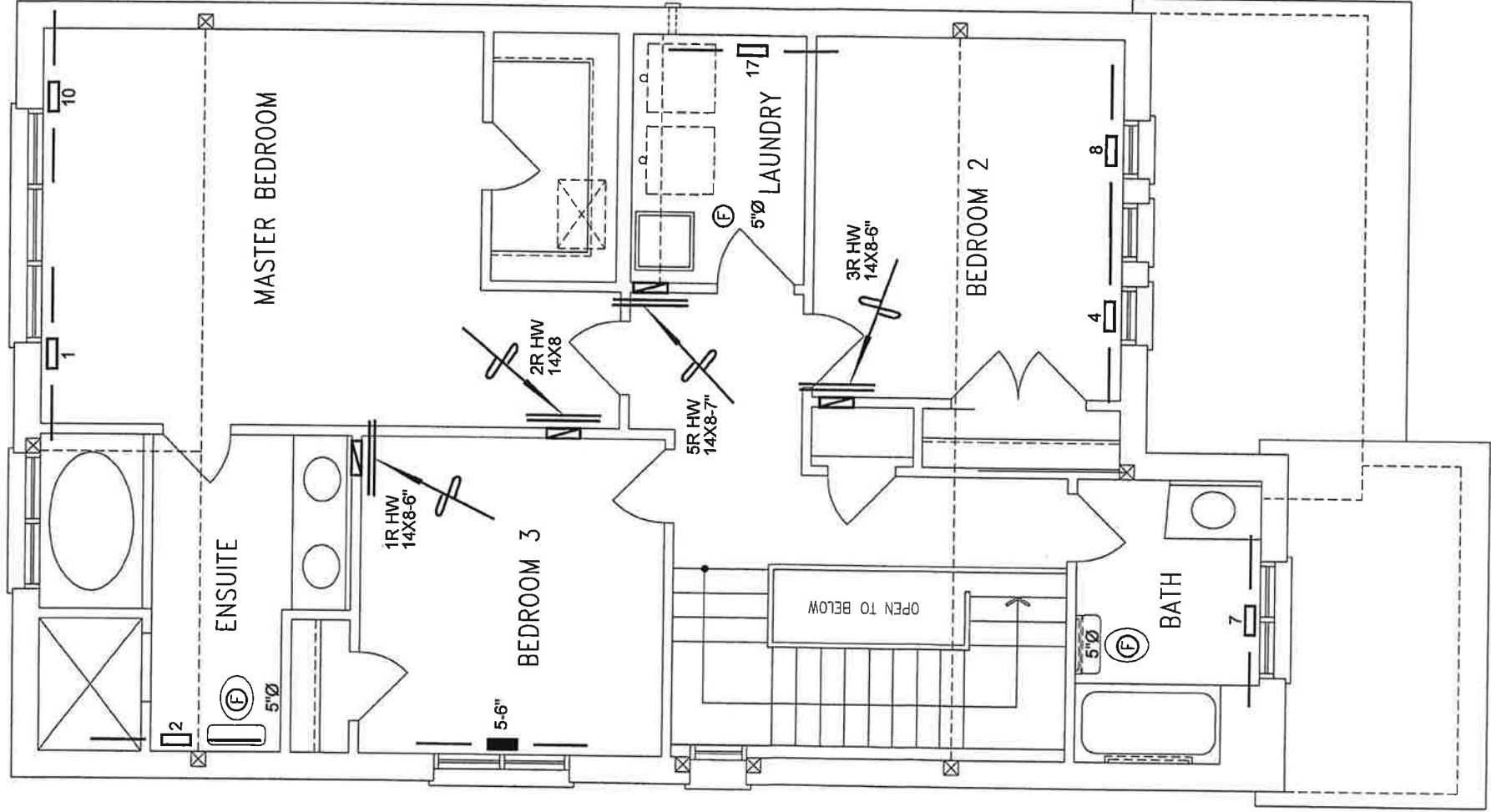
1950 sqft

Town of Innisfil Certified Model  
03/01/2018 12:05:04 PM kgervais

CSA-F280-12  
PACKAGE A1



PARTIAL SECOND FLOOR PLAN – ELEVATION 'B'



I MICHAEL O'ROURKE HAVE REVIEWED THESE DRAWINGS AND ACCEPTED RESPONSIBILITY FOR THE DESIGN WORK AND THE ACCURACY OF THE INFORMATION PROVIDED HEREIN IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING CODE.

*Michael O'Rourke*  
Michael O'Rourke, P.Eng. 19669  
HVAC DESIGNS LTD.

Town of Innisfil Certified Model  
03/01/2018 12:05:03 PM Kgrvais

SECOND FLOOR PLAN – ELEVATION 'A'

CSA-F280-12  
PACKAGE A1

| SYMBOL    |                                 | DESCRIPTION | SYMBOL                          | DESCRIPTION | SYMBOL                       | DESCRIPTION | 3.   |
|-----------|---------------------------------|-------------|---------------------------------|-------------|------------------------------|-------------|------|
|           | FLOOR SUPPLY AIR GRILLE         |             | 6" SUPPLY AIR BOOT ABOVE        |             | 14"x8" RETURN AIR GRILLE     |             | 2.   |
|           | FLOOR SUPPLY AIR GRILLE 6" BOOT |             | SUPPLY AIR STACK FROM 2nd FLOOR |             | 30"x8" RETURN AIR GRILLE     |             | 1.   |
|           | SUPPLY AIR BOOT ABOVE           |             | 6" SUPPLY AIR STACK 2nd FLOOR   |             | FRA- FLOOR RETURN AIR GRILLE |             | No.  |
| REVISIONS |                                 |             |                                 |             |                              |             | Date |

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Client

**BAYVIEW WELLINGTON**

Project Name  
**ALCONA  
INNISFIL, ONTARIO**

32-6-15      1950 sqft

**HVAC DESIGNS LTD.**  
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Email: info@hvacdesigns.ca  
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Specializing in Residential Mechanical Design Services  
Installation to comply with the latest Ontario Building Code. All supply  
branch outlets shall be equipped with a manual balancing damper.  
Ductwork which passes through the garage or unheated spaces shall be  
adequately insulated and be gas-proofed.

Sheet Title

**SECOND FLOOR  
HEATING  
LAYOUT**

Date  
JUNE/2017

Scale  
3/16" = 1'-0"

BCIN# 19669

LO# 74585

