



- GENERAL NOTES:**
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CLEAR HEIGHTS.
  - CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
  - PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
  - SEE INSTALLATION DETAILS DRAWING FOR WASHER, DOM. H.C. WATER, SANITARY CONNECTION DETAILS.
  - SUPPLY AND INSTALL COMPLETE DOMESTIC HOT AND COLD WATER LINES, SANITARY AND VENT LINES TO EACH FIXTURE /EQUIPMENT INCLUDING WATER CLOSETS, LAVATORIES, BATHS, SHOWERS, KITCHEN SINK, WASHING MACHINES, DISHWASHERS, AND FLOOR DRAINS, KITCHEN SINK, LAVATORIES, WATER CLOSETS AND WASHING MACHINE TO BE C/W LOCALIZED SHUT-OFF VALVES.
  - ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.
  - FOR D.H.C. W. RISER SIZES, REFER TO RISER DIAGRAM
  - FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATINGS OF THE PENETRATED FIRE SEPARATION.
  - THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH OBC ARTICLE 3.13.1
  - THE FIRE HOSE CABINET THAT ARE RECESSED INTO THE EXIT STAIR SHAFTS ARE REQUIRED TO BE SEPARATED FROM THE EXIT STAIR BY A 2 HR. FIRE SEPARATION.
  - NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.
  - PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERV FAN COIL UNIT.
  - DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).
- REFER TO DUG. M-X FOR GENERAL AND ACOUSTIC NOTES
- CLEAR FLOOR TO UNDERSLAB = 4050mm  
 CLEAR PRODUCT = 3000mm  
 COMPLETE DROP CEILING +1000mm FOR DUCT/PIPES  
 ROOF DRAINS & TERRACE DRAINS FROM 2/F

- NOTES:**
- 3100x2000 (62 M<sup>2</sup>, 68 FT<sup>2</sup>) EXHAUST AIR SHAFT FOR P-1 & P-2 LEVEL C/W GRATE BY OTHERS.
  - 5200x1700 (884 M<sup>2</sup>, 95 FT<sup>2</sup>) AIR SHAFT FOR GENERATOR INTAKE & EXHAUST C/W GRATE BY OTHERS.
  - 2250x1300 (293 M<sup>2</sup>, 315 FT<sup>2</sup>) FRESH AIR INTAKE SHAFT FOR P-2 LEVEL C/W GRATE BY OTHERS.
  - 1300x400 F/A DUCT FROM BELOW C/W FIRE DAMPER AT SLAB.
  - 1300x400 F/A DUCT UP TO SOUTH SHAFT A C/W FIRE DAMPER AT SLAB.
  - 100x350 STAIR PRESSURIZATION DUCT DOWN C/W 2HR FIRE RATED ENCLOSURE ENCLOSURE BY OTHERS.
  - MOTORIZED DOOR TO BE CONNECTED TO FIRE ALARM SYSTEM BY DIV.6.
  - 1000x150 WEATHERPROOF INTAKE LOUVRE C/W BIRDSCREEN.

| LEGEND MECHANICAL |  |
|-------------------|--|
| SYMBOL            | DESCRIPTION                              |
| [Symbol]          | SUPPLY AIR DIFFUSER                      |
| [Symbol]          | SUPPLY AIR HOPPER                        |
| [Symbol]          | LINEAR SUPPLY DIFFUSER                   |
| [Symbol]          | TERMINAL BOX                             |
| [Symbol]          | FAIR MATCH                               |
| [Symbol]          | RETURN AIR GRILLE                        |
| [Symbol]          | EXHAUST AIR GRILLE                       |
| [Symbol]          | SUPPLY DUCT UP                           |
| [Symbol]          | SUPPLY DUCT DOWN                         |
| [Symbol]          | RETURN DUCT UP                           |
| [Symbol]          | RETURN DUCT DOWN                         |
| [Symbol]          | EXHAUST DUCT UP                          |
| [Symbol]          | EXHAUST DUCT DOWN                        |
| [Symbol]          | FIRE DAMPER                              |
| [Symbol]          | BALANCING DAMPER                         |
| [Symbol]          | MOTORIZED DAMPER                         |
| [Symbol]          | MOTORIZED FIRE DAMPER                    |
| [Symbol]          | BACKDRAFT DAMPER                         |
| [Symbol]          | SPRINGED BLADE VALVE CONTROL DAMPER      |
| [Symbol]          | CELLULOSIC GUARDANT                      |
| [Symbol]          | TUNING VANES                             |
| [Symbol]          | FLEXIBLE CONNECTION                      |
| [Symbol]          | ACOUSTIC INSULATION                      |
| [Symbol]          | TYPE OF EQUIPMENT                        |
| [Symbol]          | EQUIPMENT IDENTIFICATION                 |
| [Symbol]          | TYPE OF DIFFUSER OR GRILLE               |
| [Symbol]          | WALL SIZE OR OTHER RISE SIZE             |
| [Symbol]          | AREA/CU (FT OR M <sup>3</sup> )          |
| [Symbol]          | EXHAUST (1/F, 2/F, 3/F, 4/F)             |
| [Symbol]          | IN-SUITE ERV MASTER SWITCH               |
| [Symbol]          | FAN MATCH / IN-SUITE ERV OVERRIDE BUTTON |
| [Symbol]          | CO. ROOM                                 |
| [Symbol]          | GAS LINE                                 |
| [Symbol]          | GAS METER                                |
| [Symbol]          | GAS DOOR                                 |
| [Symbol]          | FRESH AIR REDUCING VALVE                 |
| [Symbol]          | SANITARY ABOVE GRADE                     |
| [Symbol]          | SANITARY BELOW GRADE                     |
| [Symbol]          | STONE ABOVE GRADE                        |
| [Symbol]          | STONE BELOW GRADE                        |
| [Symbol]          | DOMESTIC COLD WATER                      |
| [Symbol]          | DOMESTIC HOT WATER                       |
| [Symbol]          | DOMESTIC HOT WATER REGULATION            |
| [Symbol]          | SANITARY VENT                            |
| [Symbol]          | WATER METER                              |
| [Symbol]          | FLOOR DRAIN                              |
| [Symbol]          | TRAP                                     |
| [Symbol]          | ROOF DRAIN                               |
| [Symbol]          | ROOF DRAIN                               |
| [Symbol]          | BLD. DRAIN                               |
| [Symbol]          | AREA DRAIN                               |
| [Symbol]          | B-LVL. AREA DRAIN                        |
| [Symbol]          | GRAB BARN                                |
| [Symbol]          | SANITARY TRAP                            |
| [Symbol]          | ELBOW UP                                 |
| [Symbol]          | ELBOW DOWN                               |
| [Symbol]          | WALL CLEANOUT                            |
| [Symbol]          | FLOOR CLEANOUT                           |
| [Symbol]          | HOSE BIBS                                |
| [Symbol]          | NON-FREEZE HOSE BIBS                     |
| [Symbol]          | SHR. VALVE                               |
| [Symbol]          | SLATE VALVE                              |
| [Symbol]          | SHALL VALVE                              |
| [Symbol]          | BUTTERFLY VALVE                          |
| [Symbol]          | PRESSURE REDUCING VALVE                  |
| [Symbol]          | CHECK VALVE                              |
| [Symbol]          | CAP                                      |
| [Symbol]          | COPPER/BRASS AIR OUTLET                  |
| [Symbol]          | BACKFLOW PREVENTER                       |
| [Symbol]          | DRICUT BALANCING VALVE                   |
| [Symbol]          | MULTIPLE PIPES                           |
| [Symbol]          | 1 / DENOTES NO. OF PIPES                 |
| [Symbol]          | TEMPERATURE SENSOR                       |
| [Symbol]          | DIAPHRAGM                                |
| [Symbol]          | 2-WAY MODULATING VALVE                   |
| [Symbol]          | 3-WAY MODULATING VALVE                   |
| [Symbol]          | 12V/24V THERMOSTAT                       |
| [Symbol]          | C/W 17' BUSHING & 1/2" PLUG              |
| [Symbol]          | FLOOR ELEVATION THIS LEVEL               |
| [Symbol]          | ROOF FLOOR TO US. LEVEL                  |

**REVISIONS**

| NO. | DATE | DESCRIPTION |
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|     |      |             |
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PROJECT: G.F. SOUTH HYAC DUCTWORK LAYOUT  
 PROJECT TITLE: ALEXANDRA PARK  
 XXXX TORONTO ONTARIO  
 DRAWN BY: G.S. CHECKED BY: E.P. SCALE: 1:50  
 DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-6 OF 33

Drawing name: \\50505050\Drawings\1313 - Alexandra Park\1313-13 - G.F. SOUTH HYAC DUCTWORK LAYOUT.dwg Plotter: Jd 05, 2018 - 4:10pm