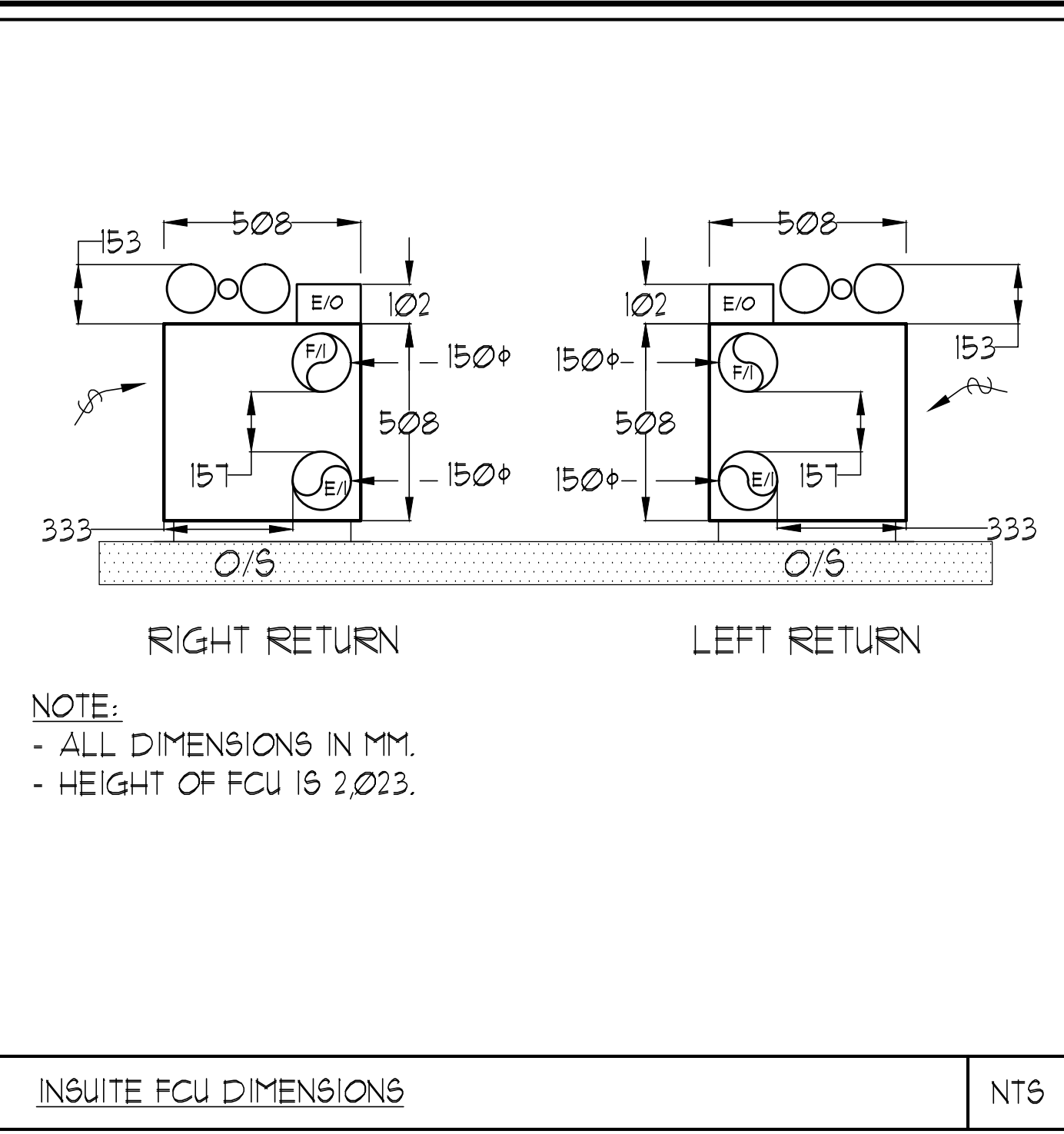
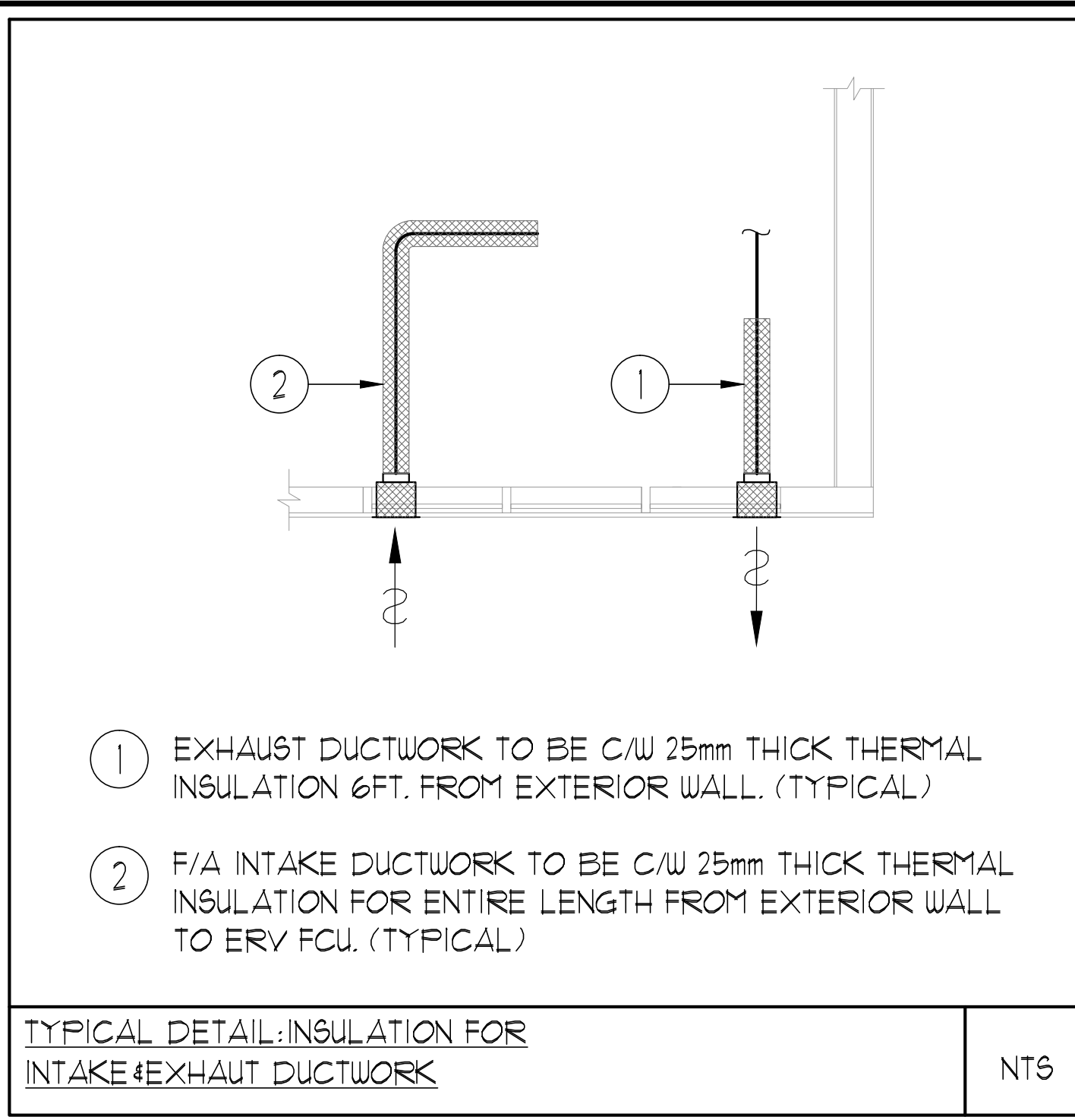




| UNIT | NAME   | AREA (SQ. FT.) | * OF UR | * OF FOLDER | SIZE (T) | FIXTURE UNITS | BR | SQ. FT./T |
|------|--------|----------------|---------|-------------|----------|---------------|----|-----------|
| 014  | IC+D1  | 530            | 2       | 0           | 1        | 16            | 1  | 530       |
| 015  | IC+DC1 | 530            | 2       | 0           | 1        | 16            | 1  | 530       |
| 016  | IC+DF1 | 605            | 2       | 0           | 1        | 16            | 1  | 605       |
| 017  | ID3    | 480            | 1       | 0           | 1        | 10            | 1  | 480       |
| 019  | 2E     | 675            | 2       | 0           | 15       | 16            | 2  | 450       |
| 021  | 2C3    | 670            | 2       | 0           | 15       | 16            | 2  | 447       |
| 023  | IC+DD1 | 605            | 2       | 0           | 1        | 16            | 1  | 605       |
| 024  | IC+DG1 | 620            | 2       | 0           | 1        | 16            | 1  | 620       |
| 026  | IC+D1  | 530            | 2       | 0           | 1        | 16            | 1  | 530       |
| 027  | 2K4    | 730            | 2       | 0           | 15       | 16            | 2  | 487       |

| GRILLE SIZING TABLE |         |                                  | VERTICAL FAN COIL SIZE                                          |       |           |
|---------------------|---------|----------------------------------|-----------------------------------------------------------------|-------|-----------|
| DESIGNATION         | SIZE    | L/S (UNLESS SPECIFIED ELSEWHERE) | DESIGNATION                                                     | MODEL | W x D     |
| SG-A                | 300x100 | 47-70                            | FCU-1T                                                          | 450   | 500x660   |
| SG-B                | 300x150 | 71-93                            | FCU-15T                                                         | 600   | 500x660   |
| SG-C                | 400x150 | 94-140                           | FCU-21T                                                         | 800   | 500x660   |
| SG-D                | 450x150 | 141-188                          | FCU-25T                                                         | 1000  | 550x660   |
| EG-A                | 150x150 | 35                               | FCU-3T                                                          | 1200  | 550x660   |
| W-1                 | 225x200 | 210mm(L)                         | NOTE:<br>A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER. |       |           |
| W-2                 | 425x200 | INSULATED                        |                                                                 |       |           |
| W-3                 | 625x200 | WALL BOX                         |                                                                 |       |           |
| DUCT SIZING TABLE   |         |                                  | DUCT SIZING TABLE                                               |       |           |
| (406 m/s, 800 FPM)  |         |                                  | (406 m/s, 800 FPM)                                              |       |           |
| DESIGNATION         | L/S     | DUCT SIZE                        | DESIGNATION                                                     | L/S   | DUCT SIZE |
| A                   | 47      | 100x150                          | G                                                               | 103   | 350x150   |
| B                   | 71      | 150x150                          | H                                                               | 236   | 450x150   |
| C                   | 94      | 200x150                          | J                                                               | 283   | 500x150   |
| D                   | 118     | 200x150                          | K                                                               | 330   | 600x150   |
| E                   | 141     | 250x150                          | L                                                               | 377   | 500x200   |
| F                   | 165     | 300x150                          |                                                                 |       |           |

ACOUSTIC NOTES:

1) ALL HORIZONTAL SUPPLY AIR DUCTWORK SHALL BE C/W 25MM INTERNAL ACOUSTIC LINING AND SHALL BE SUSPENDED ON RUBBER PADS IN THE HANGERS. ELBOWS SHALL BE COMPLETE WITH TURNING VANES.

2) ALL SYSTEM DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE IN-SHEAR HANGERS, AND ADDITIONAL 25 MM THICK RIBBED OR WAFFLED NEOPRENE PADS IN THE SADDLES OF CLEVIS HANGERS.

3) ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.

GENERAL NOTES:

1) CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.

2) CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.

3) PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.

4) SEE INSTALLATION DETAILS DRAWING FOR WASHER DOM. H/C WATER, SANITARY CONNECTION DETAILS.

5) 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.

6) ALL VENT PIPE INSTALLATION TO COMPLY WITH PLUMBING CODES.

7) FOR D.H.W.C. W. RISER SIZES, REFER TO RISER DIAGRAM

8) FIRE DAMPERS ARE REQUIRED TO BE LISTED AND ARE TO HAVE FIRE PROTECTION RATING OF THE PENETRATED FIRE SEPARATION.

9) THE PIPING PENETRATING THE VARIOUS FIRE SEPARATION IS REQUIRED TO BE FIRESTOPPED WITH A LISTED FIRESTOPPING MATERIAL IN ACCORDANCE WITH CBC ARTICLE 3.1.9.1

10) 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.

11) NO FLEXIBLE DUCT SHALL BE USED FOR ANY IN-SUITE DUCTWORK.

12) PROVIDE 25MM EXTERNAL INSULATION TO ENTIRE FRESH AIR DUCT FROM EXTERIOR WALL TO ERY FAN COIL UNIT.

13) DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

CLEAR FLOOR TO UNDERSLAB = 3050mm  
CLEAR PRODUCT = 2100mm  
COMPLETE DROP CEILING = 3500mm  
UNITS 016/017/019/021/023/024: DRAINS FROM AMENITY TERRACE ON 9/F

- NOTES:
- 1 SOUTH F/A SHAFT FROM G/F TO 8/F. DUCT SERVING CORRIDOR FROM G/F TO 8/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
- 2 150° KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
- 3 32° SUR.
- 4 30° SUR.
- 5 50° SUR.
- 6 63° SUR.
- 7 75° SUR.
- 8 19° DHWR.
- 9 25° DHWR.
- 10 32° DHWR.
- 11 30° DHWR.
- 12 50° DCW & 30° DHW.
- 13 32° DCW & 25° DHW.
- 14 30° DCW & 32° DHW.
- 15 19° GAS PIPE UP TO SERVE BBQ ON 9/F.
- 16 100° SAN 01%.
- 17 13° DCW & DHW UP TO SERVE (1) SINK ON 9/F - AMENITY SPACE.
- 18 13° DCW & DHW UP TO SERVE (1) SHOWER ON 9/F - AMENITY SPACE.
- 19 100° RUL DOWN.
- 20 100° STM 01%.
- 21 150° RUL DOWN.
- 22 150° STM 01%.
- 23 100° RUL FROM ABOVE.
- 24 100° RUL FROM ABOVE AND DOWN.
- 25 150° RUL FROM ABOVE.
- 26 32° DCW & 25 DHW.
- 27 25° DCW UP TO SERVE POOL MECHANICAL ROOM ON 9/F - AMENITY SPACE.
- 28 13° DCW UP TO SERVE NFHB.

| LEGEND MECHANICAL |                                           |
|-------------------|-------------------------------------------|
| SYMBOL            | DESCRIPTION                               |
| [Symbol]          | SUPPLY AIR DIFFUSER                       |
| [Symbol]          | SUPPLY AIR TRIPPER                        |
| [Symbol]          | LINEAR SUPPLY DIFFUSER                    |
| [Symbol]          | FAN MOTOR                                 |
| [Symbol]          | THERMOSTAT                                |
| [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]          | BACKDRIFT DAMPER                          |
| [Symbol]          | OPPOSED BLADE VOLUME CONTROL DAMPER       |
| [Symbol]          | TURNING VANES                             |
| [Symbol]          | FLEXIBLE CONNECTION                       |
| [Symbol]          | ACOUSTIC INSULATION                       |
| [Symbol]          | TYPE OF EQUIPMENT                         |
| [Symbol]          | TYPE OF CONNECTION                        |
| [Symbol]          | TYPE OF DIFFUSER OR GRILLE                |
| [Symbol]          | SMALL SIZE OR DIFFUSER BECK SIZE          |
| [Symbol]          | AMPLIFY (CM OR L/S)                       |
| [Symbol]          | STARTER / 3 PHASE / PHASE                 |
| [Symbol]          | IN-SUITE ERY MASTER SWITCH                |
| [Symbol]          | FAN SWITCH / IN-SUITE ERY OVERRIDE BUTTON |
| [Symbol]          | CO SENSOR                                 |
| [Symbol]          | GAS LINE                                  |
| [Symbol]          | GAS METER                                 |
| [Symbol]          | GAS STOP                                  |
| [Symbol]          | PRESSURE REDUCING VALVE                   |
| [Symbol]          | SANITARY ABOVE GRADE                      |
| [Symbol]          | SANITARY BELOW GRADE                      |
| [Symbol]          | STORY ABOVE GRADE                         |
| [Symbol]          | STORY BELOW GRADE                         |
| [Symbol]          | DOMESTIC COLD WATER                       |
| [Symbol]          | DOMESTIC HOT WATER                        |
| [Symbol]          | DOMESTIC HOT WATER RECIRCULATION          |
| [Symbol]          | SANITARY VENT                             |
| [Symbol]          | WATER METER                               |
| [Symbol]          | FLOOR DRAIN                               |
| [Symbol]          | FLOOR DRAIN                               |
| [Symbol]          | ROOF DRAIN                                |
| [Symbol]          | SLAB DRAIN                                |
| [Symbol]          | AREA DRAIN                                |
| [Symbol]          | BI-LEVEL AREA DRAIN                       |
| [Symbol]          | CATCH BASIN                               |
| [Symbol]          | SANITARY TRAP                             |
| [Symbol]          | ELBOW UP                                  |
| [Symbol]          | ELBOW DOWN                                |
| [Symbol]          | WALL CLEANOUT                             |
| [Symbol]          | FLOOR CLEANOUT                            |
| [Symbol]          | HOSE BIBB                                 |
| [Symbol]          | NON-FREEZE HOSE BIBB                      |
| [Symbol]          | GATE VALVE                                |
| [Symbol]          | BALL VALVE                                |
| [Symbol]          | BUTTERFLY VALVE                           |
| [Symbol]          | PRESSURE REDUCING VALVE                   |
| [Symbol]          | CHECK VALVE                               |
| [Symbol]          | CAP                                       |
| [Symbol]          | COMPRESSED AIR OUTLET                     |
| [Symbol]          | BACKUP OF PREVENTER                       |
| [Symbol]          | CIRCUIT BALANCING VALVE                   |
| [Symbol]          | MULTIPLE PIPES                            |
| [Symbol]          | DENOTES NO. OF PIPES                      |
| [Symbol]          | TEMPERATURE SENSOR                        |
| [Symbol]          | THERMISTOR                                |
| [Symbol]          | 2-WAY MODULATING VALVE                    |
| [Symbol]          | 3-WAY MODULATING VALVE                    |
| [Symbol]          | C/W 1/2" BUSHING & 1/2" PLUG              |
| [Symbol]          | FLOOR ELEVATION ABOVE LEVEL               |
| [Symbol]          | FLOOR ELEVATION THIS LEVEL                |
| [Symbol]          | HEADROOM FLOOR TO US ELEVATION            |

| REVISIONS                                                                                                                                                                                                                                          |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE JOB AND REPORT DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS THE PROPERTY OF THE ENGINEER AND NOT BE REPRODUCED FOR COMPLETION OF THE WORK. |                         |
| DRAWINGS ARE NOT TO BE SCALED                                                                                                                                                                                                                      |                         |
| NOVA ENGINEERING                                                                                                                                                                                                                                   |                         |
| 175 West Beaver Creek Road Unit 31<br>Richmond Hill, Ontario L4B 3M1<br>Tel: 905.882-5445<br>Fax: 905.882-5447                                                                                                                                     |                         |
| DRAWING TITLE:<br>8/F SOUTH MECHANICAL LAYOUT                                                                                                                                                                                                      |                         |
| PROJECT TITLE:<br>50 ALEXANDRA PARK BLOCK II<br>38 CAMERON STREET TORONTO                                                                                                                                                                          |                         |
| DESIGNED BY:<br>G.S.                                                                                                                                                                                                                               | SCALE:<br>1:50          |
| PROJECT NUMBER:<br>1313                                                                                                                                                                                                                            | DRAWING NUMBER:<br>M-24 |
| DATE:<br>FEB. 13                                                                                                                                                                                                                                   | OF 43                   |

