

REFER TO DUG M-9 FOR ACOUSTIC NOTES

GENERAL NOTES:

- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SFRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING 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 RATING 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 3.1.1
- 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 ERY FAN COIL UNIT.
- DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

CLEAR FLOOR TO UNDERSLAB = 4050mm
 CLEAR PRODUCT = 3000mm
 COMPLETE DROP CEILING = 1000mm FOR DUCT/PIPES
 ROOF DRAINS & TERRACE DRAINS FROM 2/F

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR TROPPER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	RETURN AIR DIFFUSER
[Symbol]	FAN SWITCH
[Symbol]	RETURN AIR GRIFF
[Symbol]	EXHAUST AIR GRIFF
[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]	HORIZONTAL DAMPER
[Symbol]	HORIZONTAL FIRE DAMPER
[Symbol]	BACKDRAFT DAMPER
[Symbol]	OPPOSITE BLADE VOLUME CONTROL DAMPER
[Symbol]	TURNING VANE
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	TYPE OF COVER OR GRILLE
[Symbol]	SMALL SIZE OR DIFFUSER NECK SIZE
[Symbol]	LARGE SIZE OR DIFFUSER NECK SIZE
[Symbol]	STARTER (3 PHASE / PHASE 1)
[Symbol]	FAN SWITCH (IN-SUITE ERY OVERSIDE BUTTON)
[Symbol]	GO SENSOR
[Symbol]	GAS METER
[Symbol]	GAS COOK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	PRESTRESS ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	STAIR ABOVE GRADE
[Symbol]	STAIR 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]	PANEL FLOOR DRAIN
[Symbol]	HUB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	SLAB DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BLAC IN-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	SANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[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]	COPPER/STAINLESS AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CREDIT BALANCING VALVE
[Symbol]	TEMPERATURE SENSOR
[Symbol]	TEMPERATURE SENSOR
[Symbol]	TEMPERATURE SENSOR
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	1/2" (40) THERMOWELL
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	HEADROOM FLOOR TO US LEIGHT

VFCU DUCT SIZE

DESIGNATION	L/s (CFM)	DUCT SIZE
(A)	94 (200 CFM)	200x200
(B)	188 (400 CFM)	250x200
(C)	282 (600 CFM)	400x200
(D)	376 (800 CFM)	400x250
(E)	470 (1000 CFM)	450x250
(F)	564 (1200 CFM)	500x250

- 1 150+ DUCT C/W 25MM INSULATION (TYP. 4)
- 2 200+ DUCT C/W 25MM INSULATION (TYP.2)

EXHAUST LOUVRE SECTION B-B
 LINE OF CANOPY ABOVE
 N.T.S.

SEE UNIT 9 ON DRAWING M-6 FOR DETAIL

SEE M-1 FOR CONTINUATION

- NOTES:
- 3100x2000 (6.2 M², 68 FT²) EXHAUST AIR SHAFT FOR P-1 & P-2 LEVEL C/W GRATE BY OTHERS.
 - 5100x100 (8.84 M², 95 FT²) AIR SHAFT FOR GENERATOR INTAKE & EXHAUST C/W GRATE BY OTHERS.
 - 2250x1300 (2.93 M², 315 FT²) FRESH AIR INTAKE SHAFT FOR P-2 LEVEL C/W GRATE BY OTHERS.
 - 1650x400 F/A DUCT FROM BELOW C/W FIRE DAMPER AT SLAB.
 - 1300x400 F/A DUCT UP TO SOUTH SHAFT 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.16.
 - 1000x150 WEATHERPROOF INTAKE LOUVRE C/W BIRDSCREEN.
 - 100x350 STAIR RELIEF DUCT FROM BELOW C/W 2HR FIRE RATED ENCLOSURE BY OTHERS.
 - 600x600 WEATHERPROOF EXHAUST LOUVRE C/W BIRDSCREEN.
 - 2HR FIRE RATED ENCLOSURE BY OTHERS.
 - 400x300 RETURN AIR DUCT ABOVE CEILING C/W ACOUSTIC INSULATION AND WIRE MESH AT OPEN ENDS.
 - 200+ EXHAUST AIR DUCT. (PROVIDE INSULATION 16m AWAY FROM EXTERIOR WALL)
 - 150+ EXHAUST AIR DUCT.
 - 25MM EXTERNAL INSULATION 16m FROM EXTERIOR WALL. (PROVIDE INSULATION 16m AWAY FROM EXTERIOR WALL)
 - MOTORIZED DAMPER BY DIV.16 TO BE CONNECTED TO FIRE ALARM SYSTEM BY DIV.16.
 - 400x200 WEATHERPROOF EXHAUST LOUVRE C/W BIRDSCREEN.
 - 800x300 RETURN AIR DUCT ABOVE CEILING C/W ACOUSTIC INSULATION AND WIRE MESH AT OPEN ENDS.
 - 500x400 F/A DUCT UP TO SOUTH SHAFT C/W FIRE DAMPER AT SLAB.
 - 900x1000 WEATHERPROOF EXHAUST LOUVRE C/W BIRDSCREEN.

- 100x150 DUCT.
- 300+ GENERATOR FLUE EXHAUST FROM GENERATOR BELOW, AND DISCHARGE AT 2,150 MM ABOVE GRADE C/W RAIN CAP.
- SLEEVE THRU BEAM.
- 500x150 DUCT.
- 450x150 DUCT.
- 150+ KITCHEN DRYER/W/FCU INTAKE/FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
- CONTINUOUS LINEAR SLOT DIFFUSER BY THIS CONTRACTOR
- WIRE MESH TO SUIT FAN.
- USE ACOUSTIC FLEXIBLE DUCT IN THEATRE.
- DUCT SHALL BE C/W 25MM EXTERNAL INSULATION & JACKET IN ANY UNHEATED AREAS.

NOVA TEND

175 West Beaver Creek Road, Unit 31
 Richmond Hill, Ontario L4B 3M1
 Tel: 905-882-5445
 Fax: 905-882-5441

DRAWING FILE: G/F SOUTH HVAC DUCTWORK LAYOUT

PROJECT FILE: SQ ALEXANDRA PARK BLOCK II
 138 CAMERON STREET TORONTO

DRAWN BY: G.S. CHECKED BY: E.P. SCALE: 1:50

DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-6 OF 43

KEY PLAN N.T.S.