

UNIT	NAME	AREA (SQ. FT.)	* OF UR	* OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/IT
514	IC-D	520	2	0	1	16	1	520
515	IC-DC2	600	2	0	1	16	1	600
516	IC-DM	610	2	0	1	16	1	610
517	ID3	480	1	0	1	16	1	480
518	2QT	820	2	1	15	22	2	541
521	2FT	840	2	0	15	16	2	560
523	IC-DD	620	2	0	1	16	1	620
524	IC-DG	620	2	0	1	16	1	620
525	IL3	575	1	0	15	10	1	383
526	IL43	570	1	0	15	10	1	380
527	IL3	615	1	0	15	10	1	410

GRILLE SIZING TABLE			VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S (BALANCE UNLESS SPECIFIED OTHERWISE)	DESIGNATION	MODEL	W x D
SG-A	300x100	41-10	FCU-IT	450	500x660
SG-B	300x150	71-93	FCU-15T	600	500x660
SG-C	400x150	94-140	FCU-2T	800	500x660
SG-D	450x150	141-188	FCU-2.5T	1000	550x660
EG-A	150x150	35	FCU-3T	1200	550x660
W-1	225x200	210mm(L)	NOTE: A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER		
W-2	425x200	INSULATED			
W-3	625x200	WALL BOX			

DUCT SIZING TABLE (4.00 m/s, 2000 FPM)					
DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
A	41	100x150	G	109	350x150
B	71	150x150	H	236	450x150
C	94	200x150	J	283	500x150
D	118	200x150	K	330	600x150
E	141	250x150	L	371	500x200
F	165	300x150			

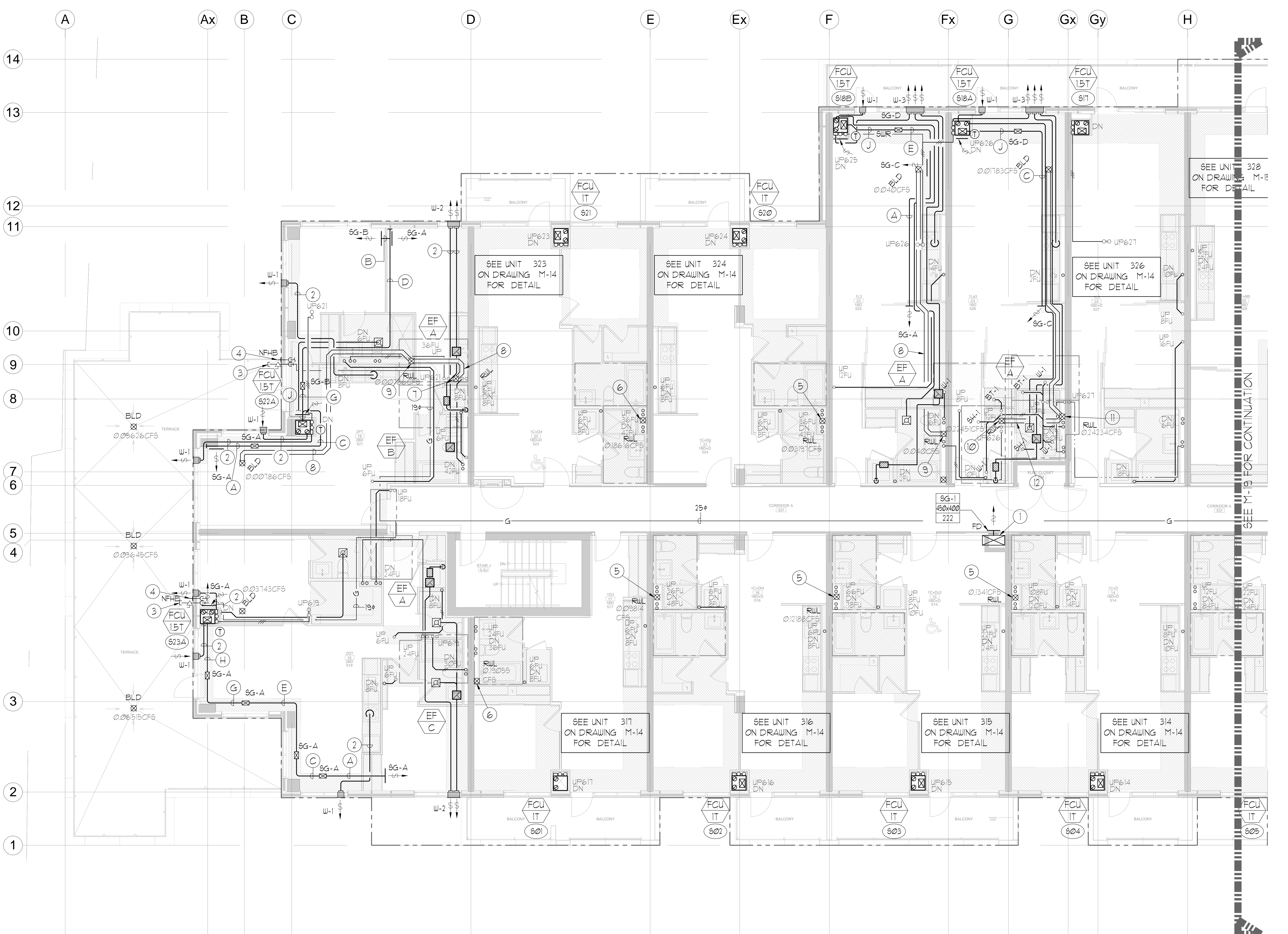
- GENERAL NOTES:
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
 - CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
 - PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
 - SEE INSTALLATION DETAILS DRAWING FOR WASHER, D.O.M., 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 3.13.1
 - 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 ERY FAN COIL UNIT.
 - DRYER EXHAUST DUCT SHALL BE SMOOTH AND CORROSION-RESISTANT MATERIAL (FLEXIBLE CONNECTION IS NOT ACCEPTABLE).

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DRYER
[Symbol]	SUPPLY AIR TRAP
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THERMOSTAT
[Symbol]	FAN MOTOR
[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 VALVE CONTROL DAMPER
[Symbol]	OPPOSED BLADE VALVE CONTROL DAMPER
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	INSULATION IDENTIFICATION
[Symbol]	TYPE OF GRILLE OR GRILLE
[Symbol]	SMALL SIZE ON OFFER SHEET SIZE
[Symbol]	ANGLE LIGHT OR LSI
[Symbol]	STARTER (3 PHASE / PHASE)
[Symbol]	IN-SUITE FAN/SHUT ERY OVERRIDE BUTTON
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS SOON
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	SANITARY ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	STORM ABOVE GRADE
[Symbol]	STORM BELOW GRADE
[Symbol]	DOPHETIC COLD WATER
[Symbol]	DOPHETIC HOT WATER
[Symbol]	DOPHETIC HOT WATER RECIRCULATION
[Symbol]	SANITARY VENT
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	RUNNEL FLOOR DRAIN
[Symbol]	ALB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	BLD. LAB DRAIN
[Symbol]	LAB DRAIN
[Symbol]	BLD. B1-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-PRESSURE HOSE BIBB
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHUCK VALVE
[Symbol]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACK-UP PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	FULL PIPE
[Symbol]	1 - DENOTES NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	1-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	17-1/2" (457) THERMISTOR
[Symbol]	C/W 17' BUILDING 4 1/2" FLUGS
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	HEADROOM FLOOR TO CEILING

- ACOUSTIC NOTES:
- 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.
 - ALL PIPES SMALLER THAN 50MM DIA. SHALL BE ISOLATED WITH 5MM THICK RIBBED OR WAFFLED RUBBER PADS IN HANGER SADDLES.
- CLEAR FLOOR TO UNDERSLAB = 2850mm
 CLEAR PRODUCT = 2800mm
 EXCEPT UNIT: 523 CLEAR PRODUCT = 2550mm
 EXCEPT UNIT: 526/527 CLEAR PRODUCT = 2600mm
 UNITS 519/521: DRAINS FROM TERRACE ON 6/F

- NOTES:
- 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.
 - 150* KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 150* GAS PIPE c/w VALVE AND CAP FOR BBQ.
 - 150* DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
 - 100* R/WL FROM ABOVE AND DOWN.
 - 150* R/WL FROM ABOVE AND DOWN.
 - 100* R/WL FROM ABOVE.
 - 100* 5TH @1%.
 - 100* R/WL DOWN.
 - 150* R/WL FROM ABOVE.
 - 150* R/WL DOWN.
 - 150* 5TH @1%.



KEY PLAN NTS

NOVA ENGINEERING 01/10/14

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DRAWING TITLE: 5/F SOUTH MECHANICAL LAYOUT

PROJECT TITLE: 5/F ALEXANDRA PARK BLOCK II
 38 CAMERON STREET TORONTO ONTARIO

DATE: FEB. 13 2013
 DESIGNED BY: G.S.
 CHECKED BY: E.P.
 SCALE: 1:50
 PROJECT NUMBER: M-18
 DRAWING NUMBER: 18 OF 43

Drawing name: \\G:\2013\2013\1313 - Alexandra Park\015\1313-1817-01 MECH. LAYOUT\01.dwg
 Plot date: 09/09/2014 10:08:00
 Plotter: HP DesignJet 5000PS