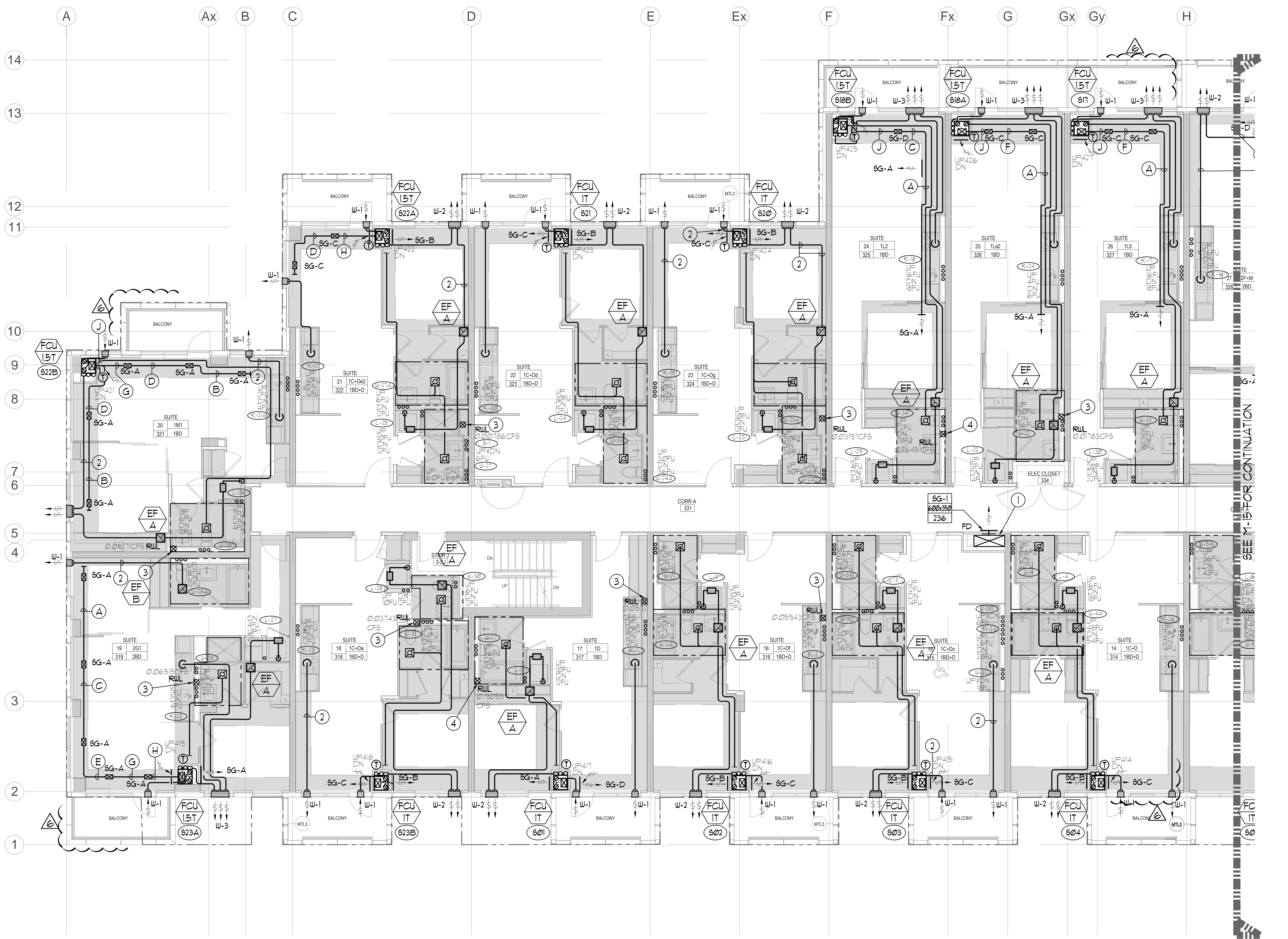


UNIT	NAME	AREA (SQ. FT.)	* OF WR	* OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
314	IC-D	530	2	0	1	16	1	530
315	IC-Dc	600	2	0	1	16	1	600
316	IC-Df	610	2	0	1	16	1	610
317	ID	480	1	0	1	10	1	480
318	IC-Da	570	1	1	1	16	1	570
319	2GI	700	2	0	15	16	2	467
321	M1	550	1	0	15	10	1	367
322	IC-De	625	2	0	15	16	1	417
323	IC-Dd	620	2	0	1	16	1	620
324	IC-Dg	620	2	0	1	16	1	620
325	IL2	615	1	0	15	10	1	410
326	ILa2	595	1	0	15	10	1	397
327	IL5	615	1	0	15	10	1	410

GRILLE SIZING TABLE			VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S (MINIMUM REQUIRED)	DESIGNATION	MODEL	W x D
SG-A	300x100	47-10	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-25T	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 (4.06 m/s, 800 FPM)		
DESIGNATION	L/S	DUCT SIZE
A	47	100x150
B	71	150x150
C	94	200x150
D	118	200x150
E	141	250x150
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 CAU 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).

- 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 = 250mm
CLEAR PRODUCT = 250mm

- NOTES:
- SOUTH F/A SHAFT FROM G/F TO B.F. DUCT SERVING CORRIDOR FROM G/F TO B.F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
 - 150ø KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 100ø RULL FROM ABOVE AND DOWN.
 - 150ø RULL FROM ABOVE AND DOWN.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	APPLY AIR DRYER
[Symbol]	APPLY AIR TRAPPER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THERMOSTAT
[Symbol]	FAN MOTOR
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	APPLY DUCT UP
[Symbol]	APPLY 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]	INSULATED DAMPER
[Symbol]	MOTORIZED FIRE DAMPER
[Symbol]	BACKDRIFT DAMPER
[Symbol]	OPPOSED BLADE VOLUME CONTROL DAMPER
[Symbol]	CO2 SENSOR
[Symbol]	TURNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	SMALL OR OFFSHORE W/CK USE
[Symbol]	ANALOG (OH OR LA)
[Symbol]	SEPARATOR 3 PHASE / PHASE 1
[Symbol]	IN-SUITE ERY WATER METER
[Symbol]	FAN SWITCH / IN-SUITE ERY OVERRIDE BUTTON
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS SOLE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	BANITARY ABOVE GRADE
[Symbol]	BANITARY BELOW GRADE
[Symbol]	STORM ABOVE GRADE
[Symbol]	STORM BELOW GRADE
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	BANITARY VENT
[Symbol]	WATER PETER
[Symbol]	CO2 SENSOR
[Symbol]	FLOOR DRAIN
[Symbol]	RUNNEL FLOOR DRAIN
[Symbol]	ALB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BI-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	BANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	HOSE BIBB
[Symbol]	NON-FREEZE HOSE BIBB
[Symbol]	CO2 SENSOR
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHUCK VALVE
[Symbol]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKUP OF PRESSURE
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	TEMPERATURE SENSOR
[Symbol]	TEMPERATURE
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	17-WAYED THERMOSTAT
[Symbol]	CU 1/2" BUSHING 4 1/2" PLUGS
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	FLOOR ELEVATION BELOW LEVEL
[Symbol]	HEADROOM FLOOR TO CEILING

NO.	DATE	DESCRIPTION	BY
1		BASED FOR SITE INSPECTION #1	EP
2		BASED FOR CITY COMMENTS	EP
3		BASED FOR SITE INSPECTION #1	EP
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NOVA ENGINEERING

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PROJECT TITLE
**SG ALEXANDRA PARK
BLOCK II**
38 CAMERON STREET
TORONTO

FRAM BY: G.S. DESIGNED BY: E.P. SCALE: 1:50
PROJECT NUMBER: 1313 DRAWING NUMBER: M-14 OF 45

DATE: FEB, 13

Drawing name: \\2025000000\Drawings\1313-1315 - Alexandra Park\01313-1315 - SG-A & NORTH MECHANICAL_LAYOUT.dwg Plot date: 2015-02-10 10:56:00