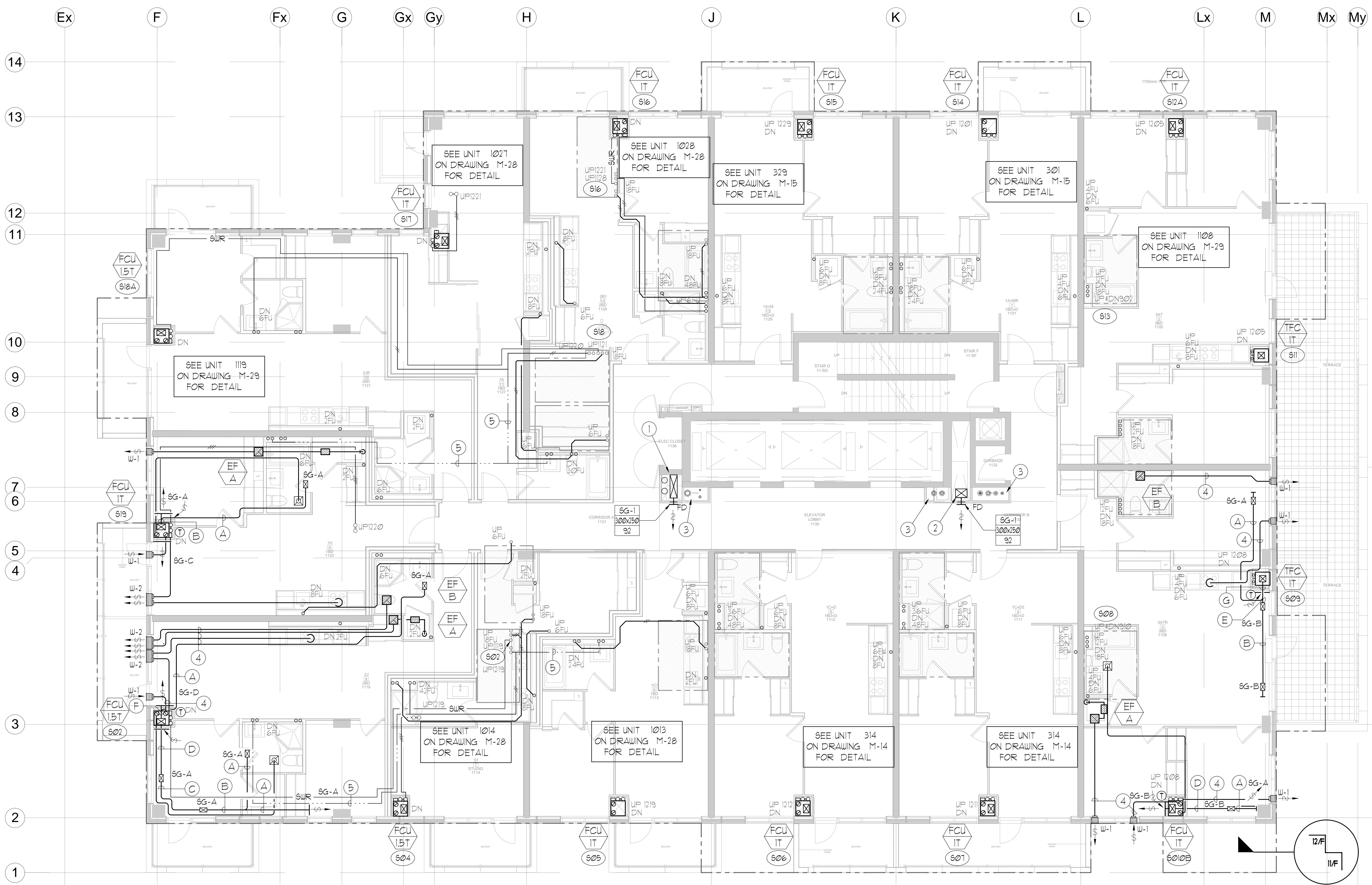


UNIT	NAME	AREA (SQ. FT.)	* OF UR	* OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT./T
1101	1A-MR	525	1	0	1	10	1	525
1105	3AT	810	2	0	2	16	3	435
1108	3ATR	810	2	1	2	22	3	435
1111	1C-D2	590	2	0	1	16	1	590
1112	1C-D	590	2	0	1	16	1	590
1113	1C1	500	1	0	1	10	1	500
1114	9I	440	1	0	15	10	STUDIO	293
1119	2J	740	2	0	15	16	2	493
1120	1H	530	1	0	1	10	1	530
1121	2JR	740	2	0	15	16	2	493
1127	1K	545	1	0	1	10	1	545
1128	2B1	605	1	1	1	16	2	605
1129	1A-M	500	1	0	1	10	1	500

- 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 DOM. H4C 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 3.19.1
  - 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 DIFFUSER
[Symbol]	SUPPLY AIR HOPPER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	FAN 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 GUARDMAT
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	IDENTIFICATION
[Symbol]	TYPE OF DAMPER OR GRILLE
[Symbol]	WALL SIZE OR OTHER RISE SIZE
[Symbol]	PIPE DIA. (UP OR L/S)
[Symbol]	EXHAUST (L/S PLUMB. / FRESH)
[Symbol]	IN-SUITE ERY MASTER SWITCH
[Symbol]	FAN MATCH / IN-SUITE ERY OVERRIDE BUTTON
[Symbol]	CO. ROOM
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS DOOR
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	SANITARY ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	STORM ABOVE GRADE
[Symbol]	STORM 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]	BLAD
[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 BIB
[Symbol]	NON-FREEZE HOSE BIB
[Symbol]	SCORE VALVE
[Symbol]	SLATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	ENCLT BALANCING VALVE
[Symbol]	TEMP. SENS. PIPE
[Symbol]	TEMP. SENS. DENOTES NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	TEMPERATURE
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	12V/24V THERMOPILE
[Symbol]	FCU 17 BUSHING 4 1/2" PLUG
[Symbol]	FLOOR ELEVATION ABOVE SLUR
[Symbol]	FLOOR ELEVATION THIS LEVEL
[Symbol]	CEILING FLOOR TO US. VENT



REFER TO DWG. M-X FOR ACOUSTIC NOTES

CLEAR FLOOR TO UNDERSLAB = 2850mm  
ALL UNITS CLEAR PRODUCT = 2800mm  
EXCEPT UNITS: 1113/1114/1121/1128 CLEAR PRODUCT = 2100mm  
UNITS 1119/1120/1121/1127: DRAINS FROM TERRACE ON 12/F

- NOTES:
- SOUTH F/A SHAFT B FROM G/F TO 14/F DUCT SERVING CORRIDOR FROM 9/F TO 14/F. SEE VENTILATION RISER DIAGRAM FOR DETAILS.
  - NORTH F/A SERVING FROM G/F TO 14/F. F/A DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE VENTILATION RISER DIAGRAM FOR DETAILS.
  - PIPE SHAFT - REFER TO PIPE DIAGRAM FOR DETAILS.
  - 150ø KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
  - 13ø DHUR

GRILLE SIZING TABLE

DESIGNATION	SIZE	L/S (UNLESS SPECIFIED OTHERWISE)
SG-A	300x120	41-70
SG-B	300x150	71-93
SG-C	400x150	94-140
SG-D	450x150	141-188
EG-A	150x150	35
W-1	225x200	210mm(L)
W-2	425x200	INSULATED
W-3	625x200	WALL BOX

VERTICAL FAN COIL SIZE

DESIGNATION	MODEL	W x D
FCU-1T	450	500x660
FCU-15T	600	500x660
FCU-2T	800	500x660
FCU-25T	1000	550x660
FCU-3T	1200	550x660

NOTE:  
A MIN. OF 125mm IS REQUIRED ON THE SIDE OF PIPE RISER.

DUCT SIZING TABLE (4.06 m/s, 800 FPM)

DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
A	41	100x150	G	189	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			

KEY PLAN

NOVA  
MECHANICAL  
ENGINEERING

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PROJECT TITLE:  
ALEXANDRA PARK

DATE: FEB, 13  
PROJECT NUMBER: 1313  
DRAWING NUMBER: M-28  
SCALE: 1:50  
SHEET: 1 OF 3