

UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT/T
001	1A-MR3	525	1	0	1	10	1	525
002	1E-D	660	2	0	1	16	1	660
005	3BR	980	2	1	2	22	3	490
008	3B	980	2	1	2	22	3	490
010	1F-D2	660	2	0	1	16	1	660
011	1C-D1	590	2	0	1	16	1	590
012	1C-D1	590	2	0	1	16	1	590
013	1C-D2	590	2	0	1	16	1	590
018	2F-M2	705	2	0	15	16	2	470
019	1B-D4	580	1	0	1	10	1	580

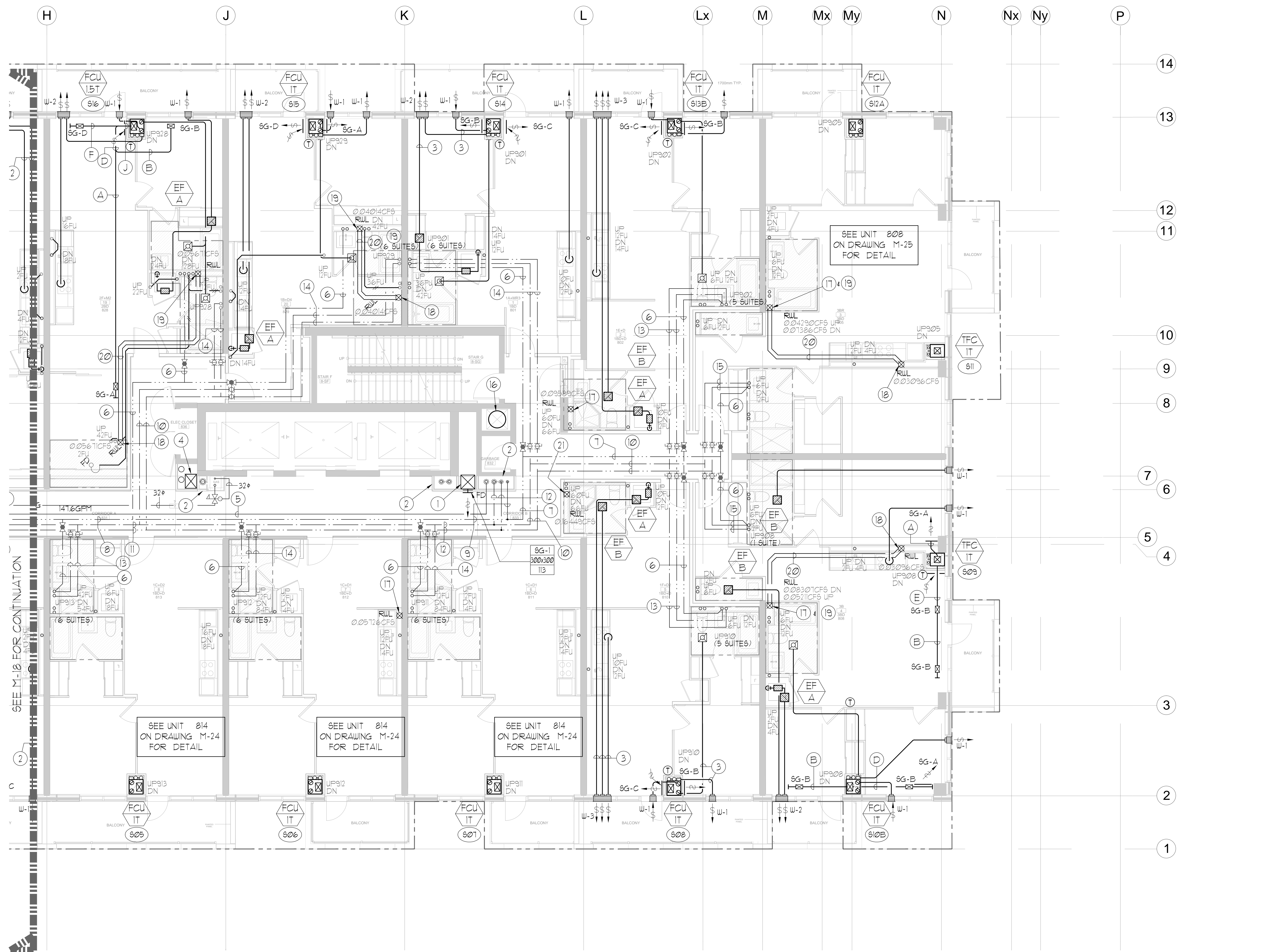
GRILLE SIZING TABLE				VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S	UNITS SERVED (BASED ON FLOOR AREA)	DESIGNATION	MODEL	W x D
SG-A	300x100	47-10		FCU-1T	450	500x660
SG-B	300x150	71-93		FCU-15T	600	500x660
SG-C	400x150	94-140		FCU-2T	800	500x660
SG-D	450x150	141-188		FCU-25T	1000	550x660
EG-A	150x150	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	475x200	INSULATED				
W-3	675x200	WALL BOX				

DUCT SIZING TABLE					
(4.06 m/s, 800 FPM)					
DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
(A)	47	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)	377	500x200
(F)	165	300x150			

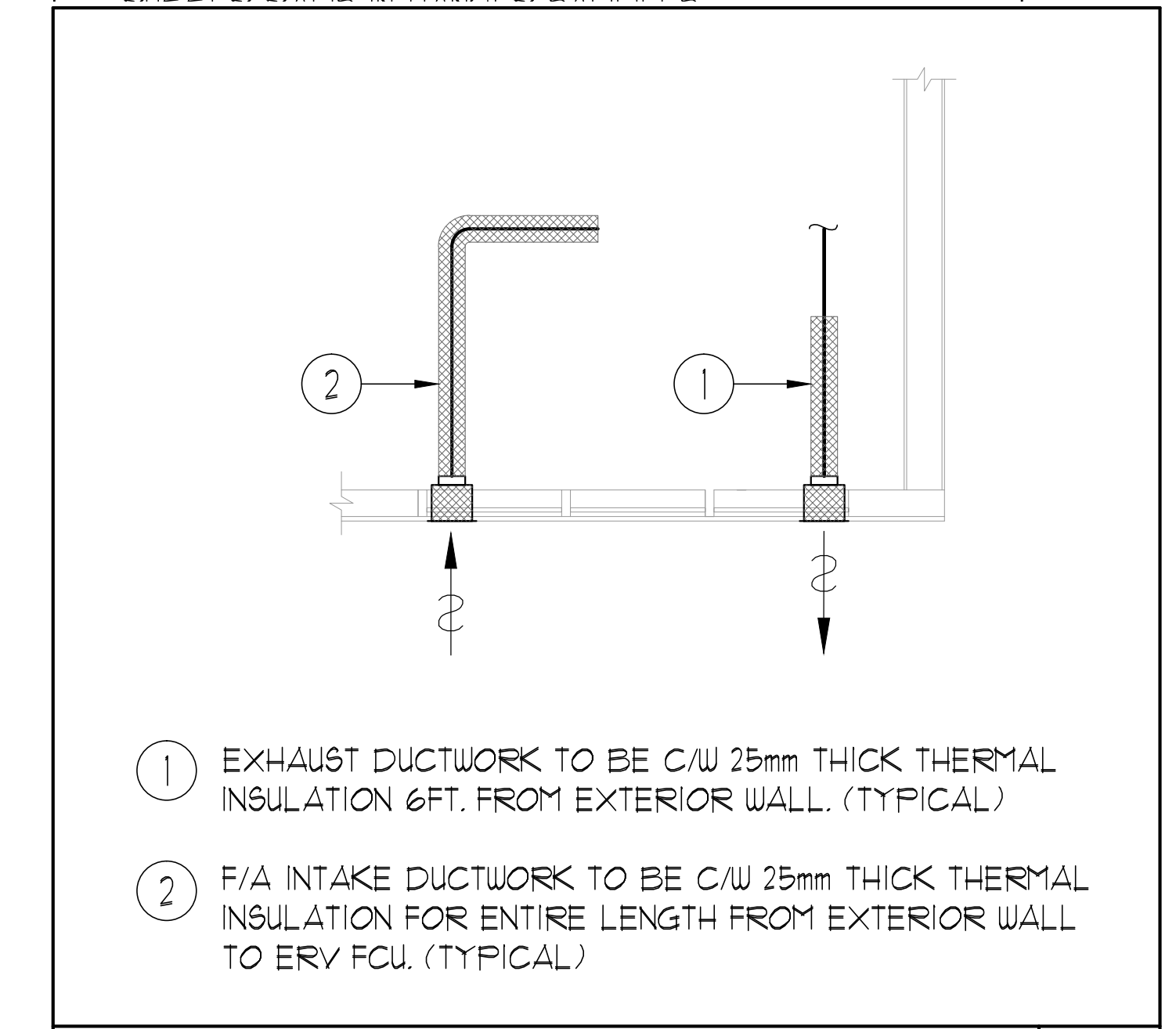
- GENERAL NOTES:
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND TO MAINTAIN CEILING HEIGHTS.
 - CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREA OF CONFLICTS TO THE ENGINEER PRIOR TO WORK BEGINS.
 - PROVIDE EXPANSION CHAMBERS FOR ALL KITCHEN SINKS.
 - SEE INSTALLATION DETAILS DRAWING FOR WASHER DOWM, 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 CBC 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

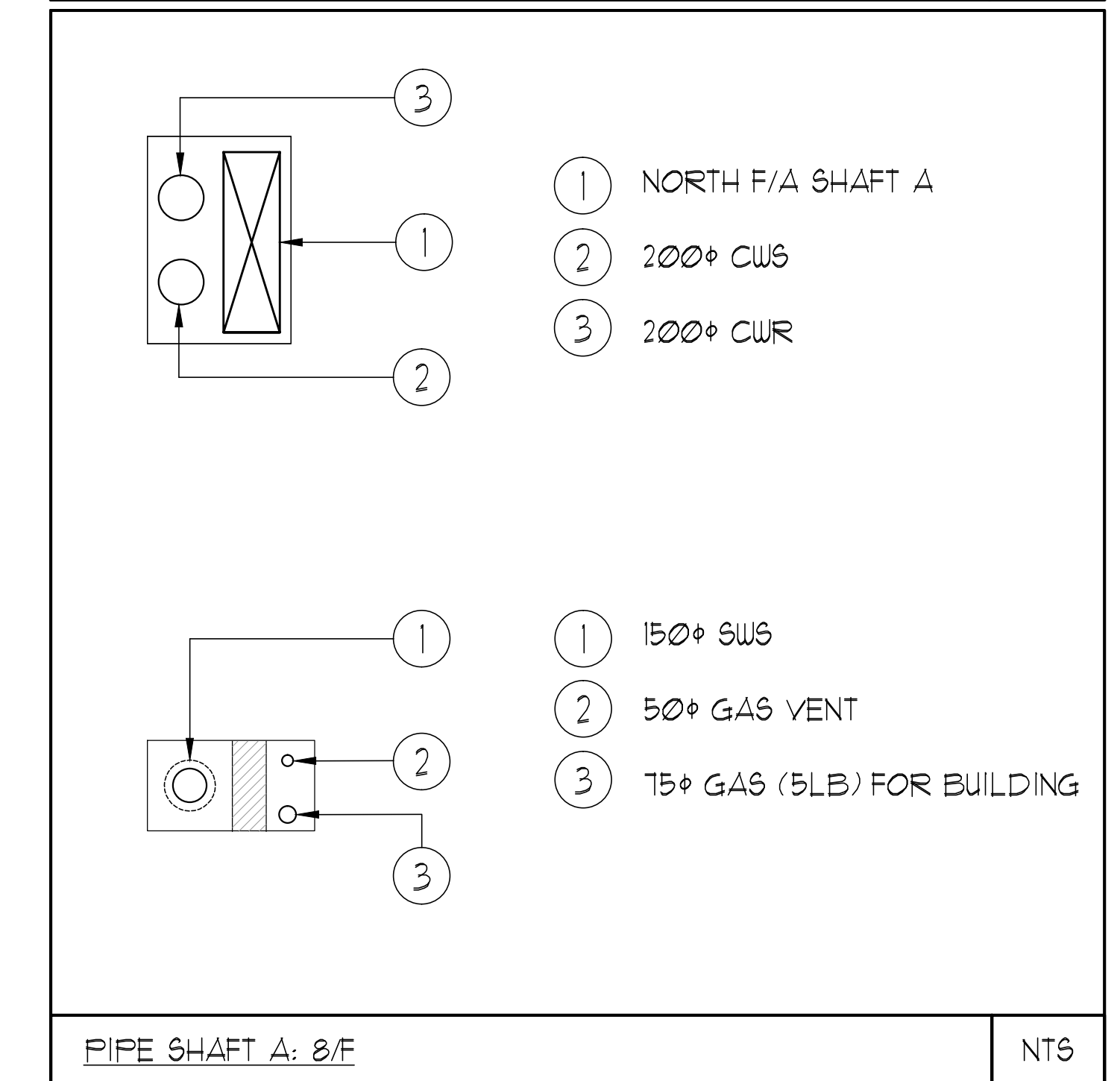
SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR RISER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THERMOSTAT
[Symbol]	FAN MOTOR
[Symbol]	RETURN AIR GRILLE
[Symbol]	EXHAUST AIR GRILLE
[Symbol]	SUPPLY DUCT DOWN
[Symbol]	RETURN DUCT DOWN
[Symbol]	EXHAUST DUCT UP
[Symbol]	EXHAUST DUCT DOWN
[Symbol]	FIRE DAMPER
[Symbol]	BALANCING DAMPER
[Symbol]	MOTORIZED DAMPER
[Symbol]	MOTORIZED FIRE DAMPER
[Symbol]	BACKDRIFT DAMPER
[Symbol]	OPPOSED BLADE VOLUME CONTROL DAMPER
[Symbol]	COUPLING ADAPTMENT
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	BASEMENT CONNECTION
[Symbol]	TYPE OF RISER OR GRILLE
[Symbol]	SMALL RISER OR OFFER RISE SIZE
[Symbol]	LARGE RISER OR OFFER RISE SIZE
[Symbol]	STARTER (3 PHASE / PHASE)
[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]	SANITARY ABOVE GRADE
[Symbol]	SANITARY BELOW GRADE
[Symbol]	ROOF ABOVE GRADE
[Symbol]	ROOF BELOW GRADE
[Symbol]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	SANITARY VENT
[Symbol]	WATER PIPES
[Symbol]	FLOOR DRAIN
[Symbol]	ROOF FLOOR DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	BLAB DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BI-LEVEL AREA DRAIN
[Symbol]	CATCH BASIN
[Symbol]	SANITARY TRAMP
[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]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CONTRACTOR TO IDENTIFY NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	1-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	17-410T THERMOPILES
[Symbol]	Cou 10' BUSHING 4 1/2" PLUG
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	HEADROOM FLOOR TO US LEVEL



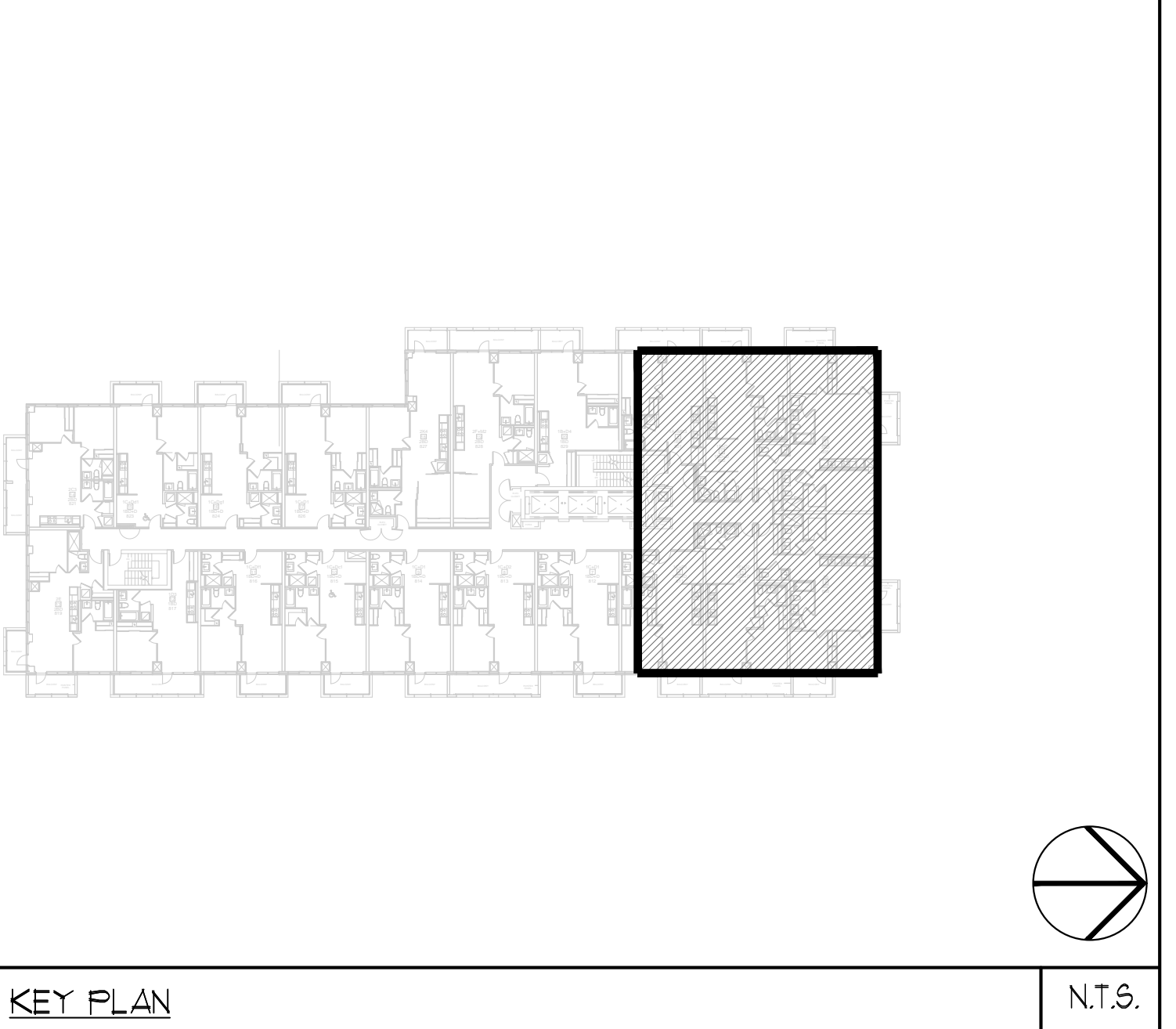
- ACOUSTIC NOTES:
- ALL HORIZONTAL SUPPLY AIR DUCTWORK SHALL BE C/W 25MM INTERNAL ACOUSTIC LINING AND SHALL BE SUSPENDED ON RUBBER PADS IN THE HANGERS. ELBOWS SHALL BE COMPLETE WITH TURNING VANES.
 - ALL SYSTEM/DOMESTIC PIPE LOOPS OR OFFSETS WHICH ARE 50MM DIA. AND LARGER SHALL BE ISOLATED USING NEOPRENE-N-SHEAR 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 HANGERS & JOINTS.



TYPICAL DETAIL INSULATION FOR INTAKE/EXHAUST DUCTWORK NTS



PIPE SHAFT A. Ø/F NTS



CLEAR FLOOR TO UNDERSLAB = 3050mm
 CLEAR PRODUCT = 2100mm
 COMPLETE DROP CEILING = 350mm
 UNITS 016/017/019/021/023/024: DRAINS FROM AMENITY TERRACE ON 9/F

- NORTH F/A SHAFT B FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
- PIPE SHAFT - REFER TO PIPE RISER DETAIL ON THIS DRAWING FOR DETAILS.
- 150ø KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
- NORTH F/A SHAFT A FROM G/F TO 14/F. DUCT SERVING CORRIDOR FROM 9/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
- 75ø SW/R
- 19ø DHWR
- 25ø DHUR
- 38ø DHUR
- 50ø DHUR
- 50ø DCU & 38ø DHU
- 63ø DCU & 50ø DHU
- 75ø DCU & 63ø DHU
- 32ø DCU & 25ø DHU
- 38ø DCU & 32ø DHU
- 19ø DCU & 19ø DHU
- 600ø GARBAGE CHUTE.
- 100ø R/WL FROM ABOVE AND DOWN.
- 100ø R/WL FROM ABOVE.
- 100ø R/WL DOWN.
- 100ø ST1 ø16.
- 150ø R/WL FROM ABOVE AND DOWN.

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 TO BE REPRODUCED FROM COMPLETION OF THE WORK. DRAWINGS ARE NOT TO BE SCALED.

NO.	DATE	DESCRIPTION	BY

NOVA
MECHANICAL

07/10/14

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DRAWING TITLE:
 Ø/F NORTH MECHANICAL LAYOUT

PROJECT TITLE:
 SG ALEXANDRA PARK BLOCK II
 38 CAMERON STREET TORONTO ONTARIO

DATE: FEB. 13 1313
 PROJECT NUMBER: M-25
 DRAWING NUMBER: 05 OF 45