

UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF POWDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT./T
501	1A-MR3	525	1	0	1	10	1	525
502	1D-M	640	1	0	15	10	1	427
503	1L6	580	1	0	15	10	1	387
504	1LB1	615	1	0	15	10	1	410
505	2MR1	750	2	0	15	16	2	473
506	1B	490	1	0	1	10	1	490
507	1BR1	490	1	0	1	10	1	490
508	2M1	750	2	0	15	16	2	375
509	1E3	480	1	0	1	10	1	480
510	1C-DB	590	2	0	1	16	1	590
511	1C-D	590	2	0	1	16	1	590
513	1C-D3	590	2	0	1	16	1	590
528	2F-M5	705	2	0	15	16	2	470
529	1A-M	580	1	0	1	10	1	580

DESIGNATION	SIZE	L/S (UNLESS OTHERWISE SPECIFIED)
SG-A	300x100	47-10
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

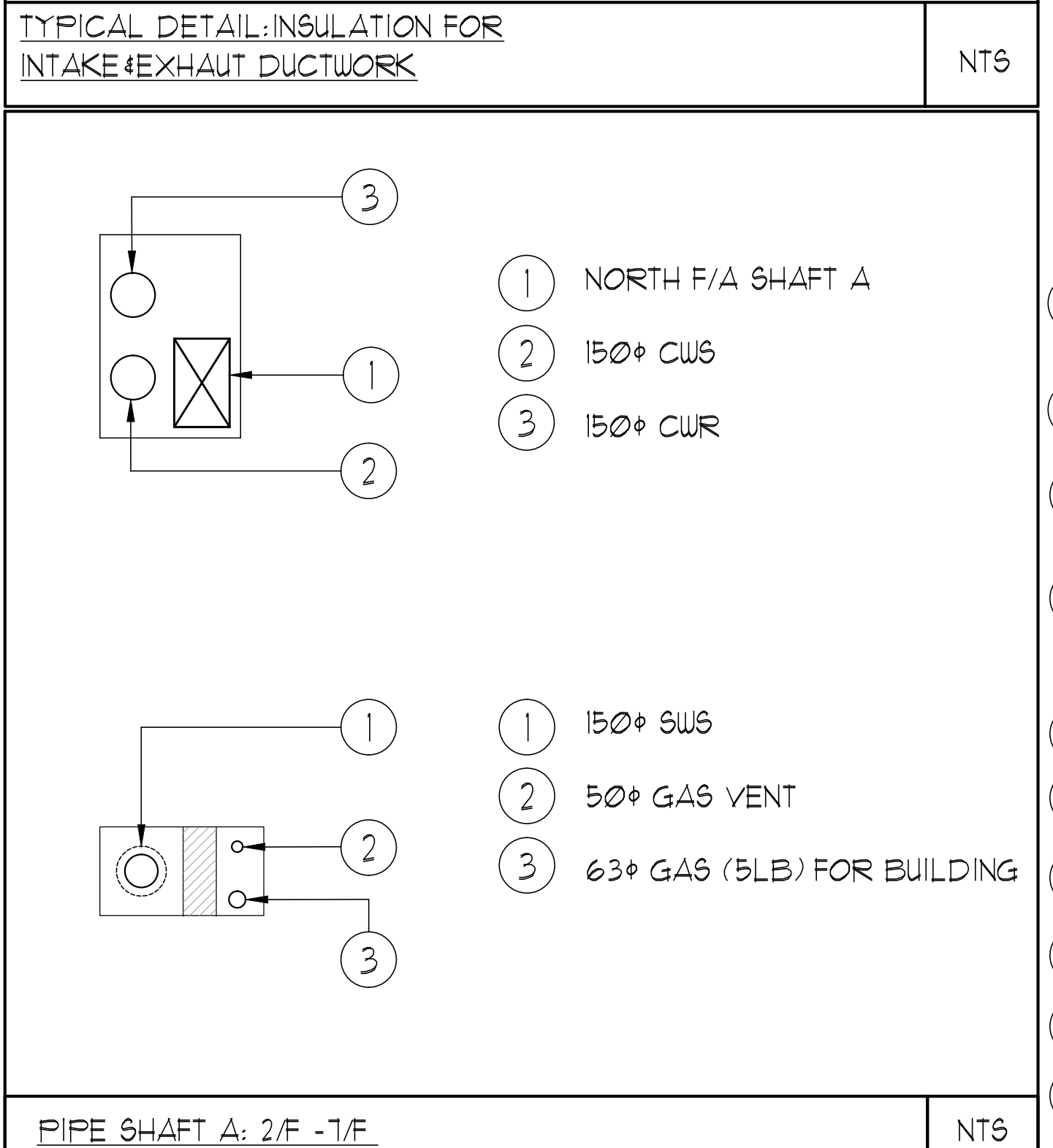
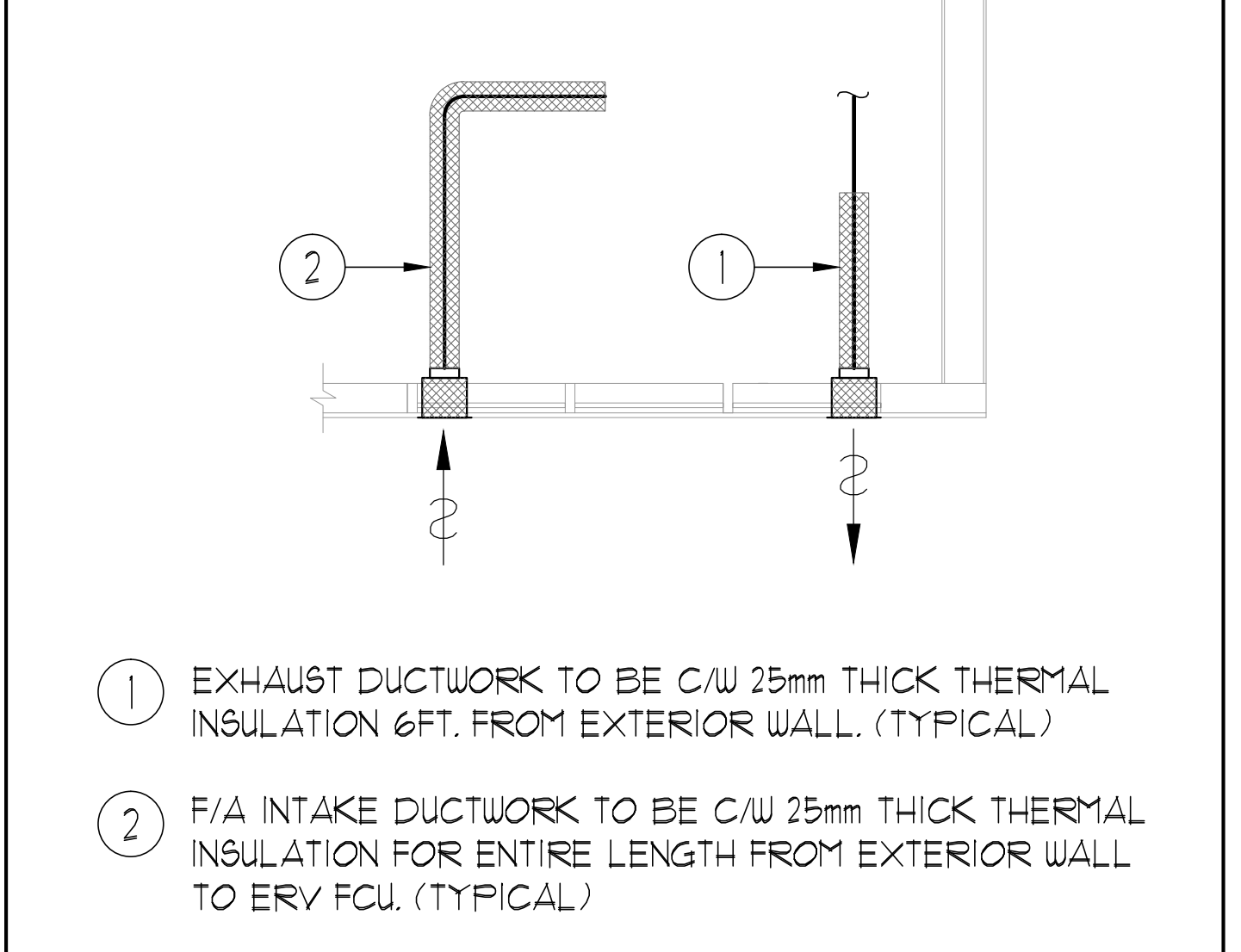
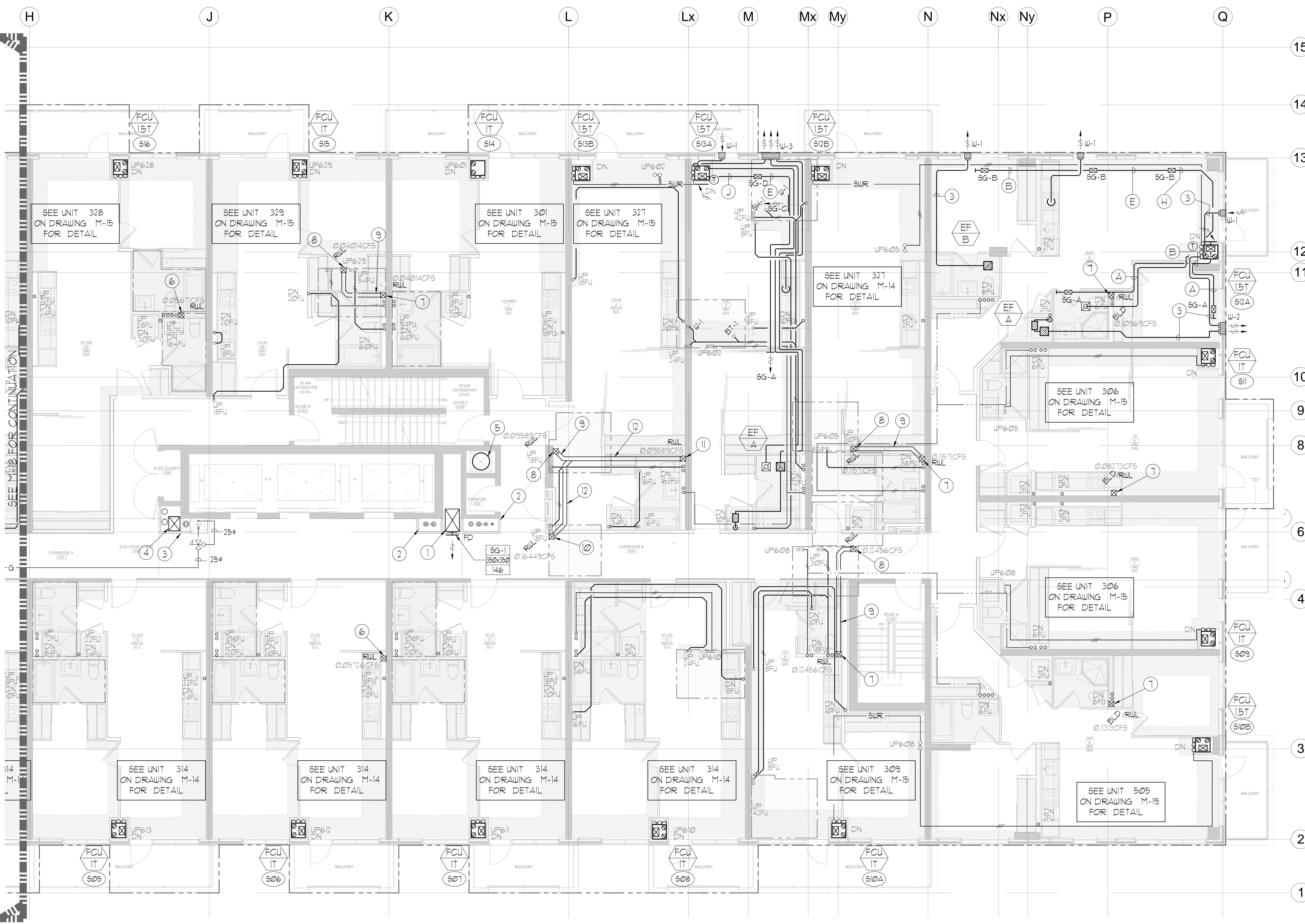
DESIGNATION	MODEL	W x D
FCU-1T	450	508x660
FCU-15T	600	508x660
FCU-2T	800	508x660
FCU-25T	1000	553x660
FCU-3T	1200	553x660

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

DESIGNATION	L/S	DUCT SIZE	DESIGNATION	L/S	DUCT SIZE
A	47	100x150	G	103	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, 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).

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[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 VOLUME CONTROL DAMPER
[Symbol]	COIL STOPPING DAMPER
[Symbol]	TUNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	EQUIPMENT IDENTIFICATION
[Symbol]	TYPE OF GRILLE OR GRILL
[Symbol]	SMALL SIZE OR DIFFER. BEAK SIZE
[Symbol]	ANGLE (1/4" OR 1/2")
[Symbol]	STARTER (3 PHASE / PHASE)
[Symbol]	FAN SWITCH / IN-SUITE 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]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	SANITARY VENT
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	RUNNEL FLOOR DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BL-LEVEL AREA DRAIN
[Symbol]	CEILING DRAIN
[Symbol]	SANITARY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	HOSE BIBB
[Symbol]	NON-FREEZE HOSE BIBB
[Symbol]	SHUT-OFF VALVE
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	CAP
[Symbol]	COMPRESSED AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	FULL PIPE
[Symbol]	DNOTES NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	1-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	C/W 1/2" BUSHING 4 1/2" PLUGS
[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.
- NOTES:
- 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.
  - 150+ 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 G/F TO 14/F. SEE PRESSURIZATION / VENTILATION RISER DIAGRAM FOR DETAILS.
  - 600+ GARBAGE CHUTE.
  - 100+ RUL FROM ABOVE AND DOWN.
  - 100+ RUL DOWN.
  - 100+ RUL FROM ABOVE.
  - 100+ ST1 @1%.
  - 150+ RUL FROM ABOVE.
  - 150+ RUL DOWN.
  - 150+ ST1 @1%.

NO.	DESCRIPTION	DATE	BY

NOVA ENGINEERING

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PROJECT TITLE: 5/F NORTH MECHANICAL LAYOUT

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38 CAMERON STREET TORONTO ONTARIO

DATE: FEB 13 2013

DESIGNED BY: G.S.

DRAWING NUMBER: M-19

SCALE: 1:50

OF 45

Drawing name: \\\2008\ERP\General\2013\131313 - Alexandra Park\131313 - 5/F North Mechanical Layout.dwg

Drawing title: 5/F NORTH MECHANICAL LAYOUT

Project: 5/F NORTH MECHANICAL LAYOUT

Date: FEB 13 2013

Drawing number: M-19

Scale: 1:50

Sheet: OF 45