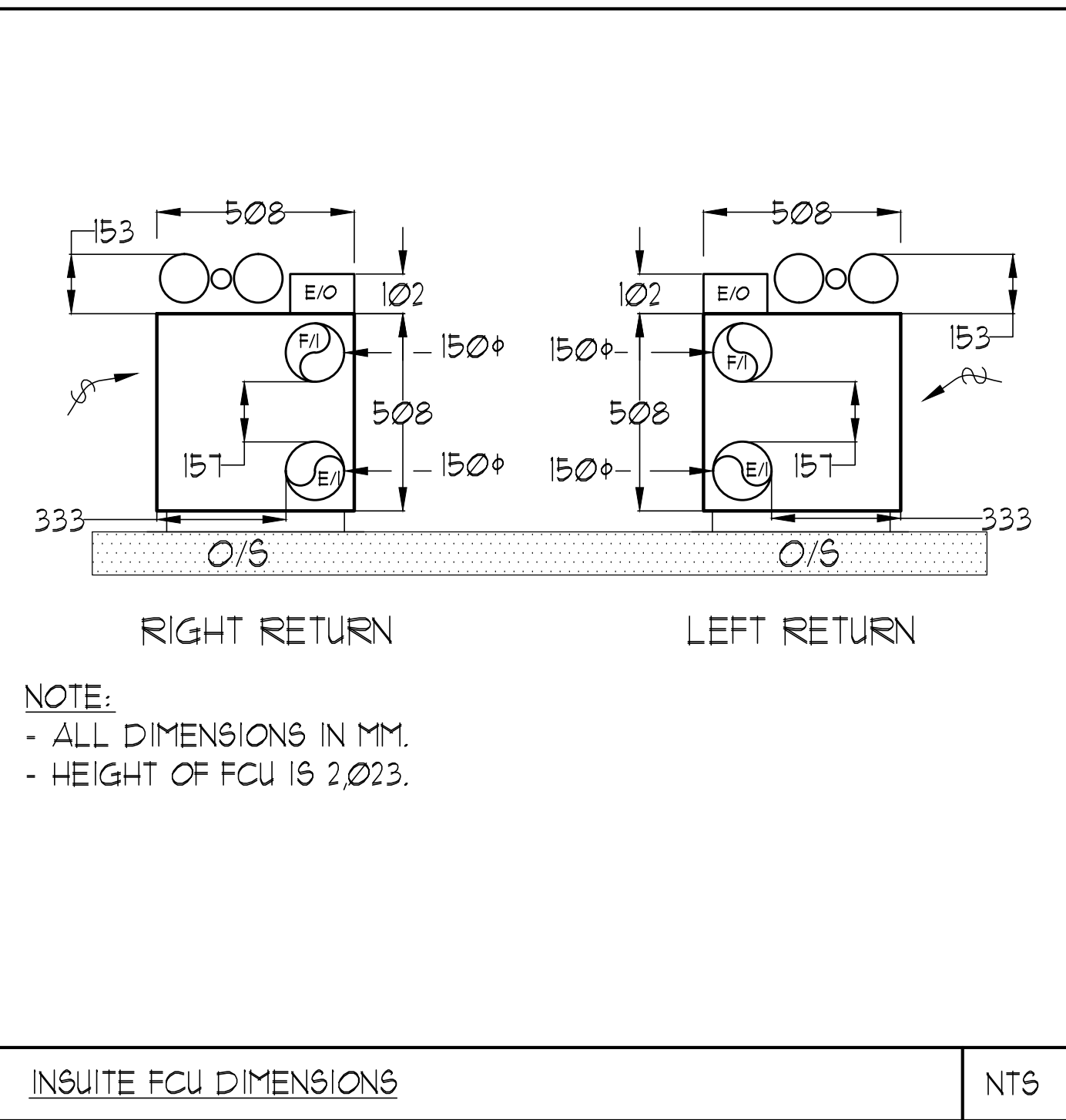
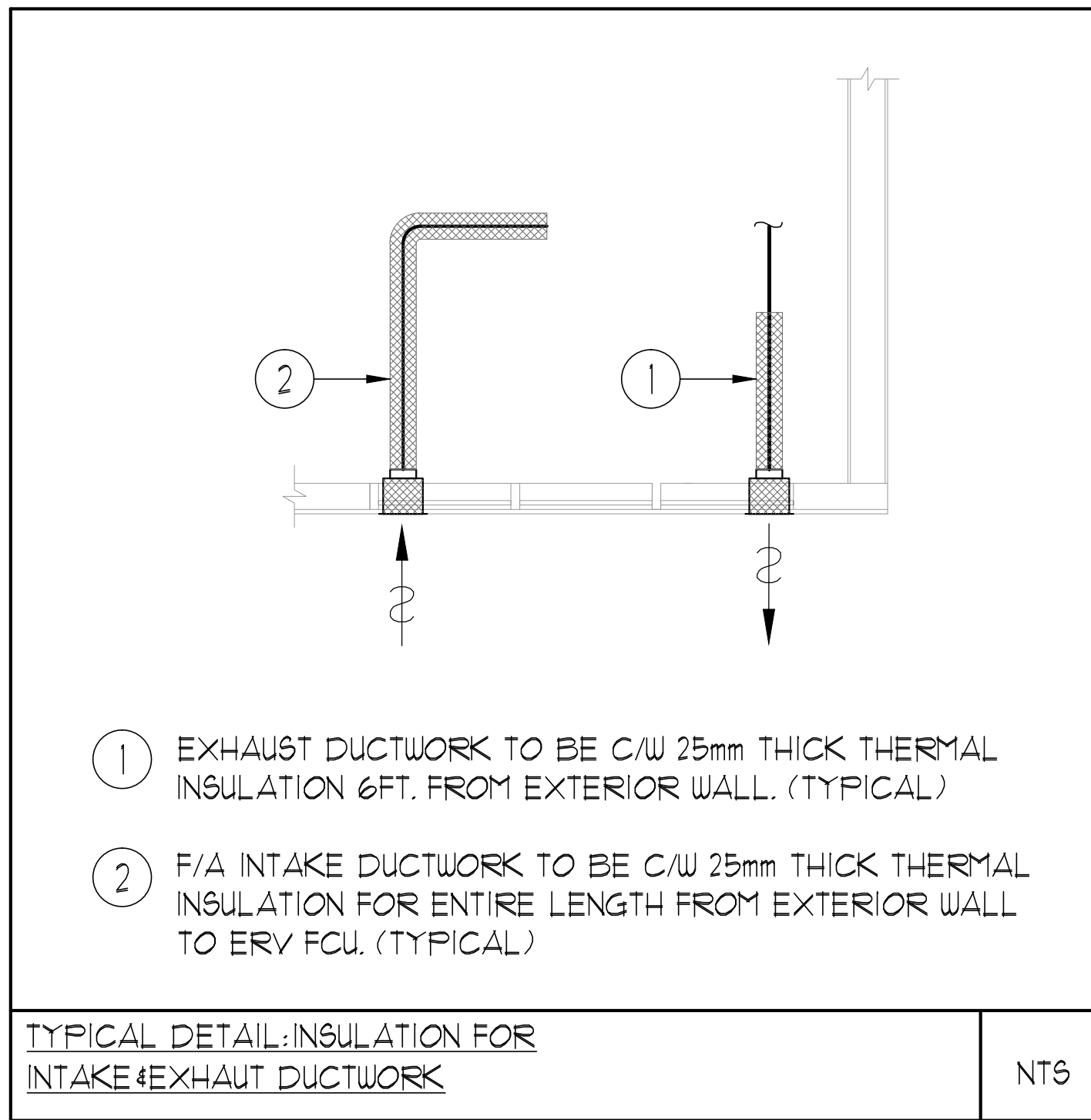




UNIT	NAME	AREA (SQ. FT.)	# OF UR	# OF FOUDE	SIZE (T)	FIXTURE UNITS	BR	SQ. FT./T
614	IC-D1	530	2	0	1	16	1	530
615	IC-DC4	530	2	0	1	16	1	530
616	IC-DF	480	2	0	1	16	1	480
617	ID1	610	1	0	1	10	1	610
619	2ET	630	2	0	15	16	2	460
621	2CT	650	2	0	15	16	2	433
623	IC-DD3	620	2	0	1	16	1	620
624	IC-DG1	620	2	0	1	16	1	620
626	IC-DT1	530	2	0	1	16	1	530
627	2KT	730	2	0	15	16	2	487

GRILLE SIZING TABLE			
DESIGNATION	SIZE	L/S	VALVE 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	475x200	INSULATED	
W-3	625x200	WALL BOX	

VERTICAL FAN COIL SIZE		
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.

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

DUCT SIZING TABLE		
(4.06 m/s, 800 FPM)		
DESIGNATION	L/s	DUCT SIZE
G	189	350x150
H	236	450x150
J	283	500x150
K	330	600x150
L	371	500x200

- GENERAL NOTES:
- CONTRACTOR SHALL CO-ORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SFRINKLER 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 DRYER, 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 DRYER, 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 ERV 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 = 2150mm
CLEAR PRODUCT = 2100mm
UNITS 605/608: DRAINS FROM TERRACE ON 7/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)
 - 19° GAS PIPE c/w VALVE AND CAP FOR BBQ.
 - 19° DCW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DCW LINE.
 - 100° RWL FROM ABOVE AND DOWN.
 - 100° RWL FROM ABOVE AND DOWN.

LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	SUPPLY AIR TRIGGER
[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]	BACKDRAFT DAMPER
[Symbol]	OPPOSED BLADE VALVE CONTROL DAMPER
[Symbol]	TURNING VANES
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	TYPE OF CONNECTION
[Symbol]	TYPE OF DIFFUSER OR GRILLE
[Symbol]	SMALLER SIZE ON DIFFUSER/GRILLE SIZE
[Symbol]	AMPLIFY (CM OR L/S)
[Symbol]	STARTER / 3 PHASE / PHASE
[Symbol]	IN-SUITE EXHAUST FAN MOTOR
[Symbol]	FAN MOTOR / IN-SUITE EXHAUST FAN MOTOR
[Symbol]	GAS LINE
[Symbol]	GAS PETER
[Symbol]	GAS COCK
[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 PETER
[Symbol]	FLOOR DRAIN
[Symbol]	FLOOR DRAIN
[Symbol]	FLOOR DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	SLAB DRAIN
[Symbol]	AREA DRAIN
[Symbol]	BLAD BL 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]	NFHB NON-FREEZE HOSE BIBB
[Symbol]	GROUSE 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]	CIRCULAT BALANCING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	IDENTIFY NO. OF PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	C/W 1/2" BUSHING 4 1/2" PLUGS
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	FLOOR ELEVATION THIS LEVEL
[Symbol]	HEADROOM FLOOR TO US (FEET)

REVISIONS

NO.	DATE	DESCRIPTION
1	2014-09-23	ISSUED FOR PERMIT
2	2014-09-23	RE-BASED FOR PERMIT
3	2014-09-23	ISSUED FOR PERMIT
4	2014-09-23	RE-BASED FOR PERMIT

NOVA ENGINEERING

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Richmond Hill, Ontario L4B 3M1
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Fax: 905.882.5447

DRAWN TITLE:
G.F. SOUTH
MECHANICAL LAYOUT

PROJECT TITLE:
60 ALEXANDRA PARK
BLOCK II
38 CAMERON STREET
TORONTO

DESIGNED BY:
G.S.

CHECKED BY:
E.P.

SCALE:
1:50

DATE:
FEB. 13

PROJECT NUMBER:
1313

DRAWING NUMBER:
M-20

OF 43

