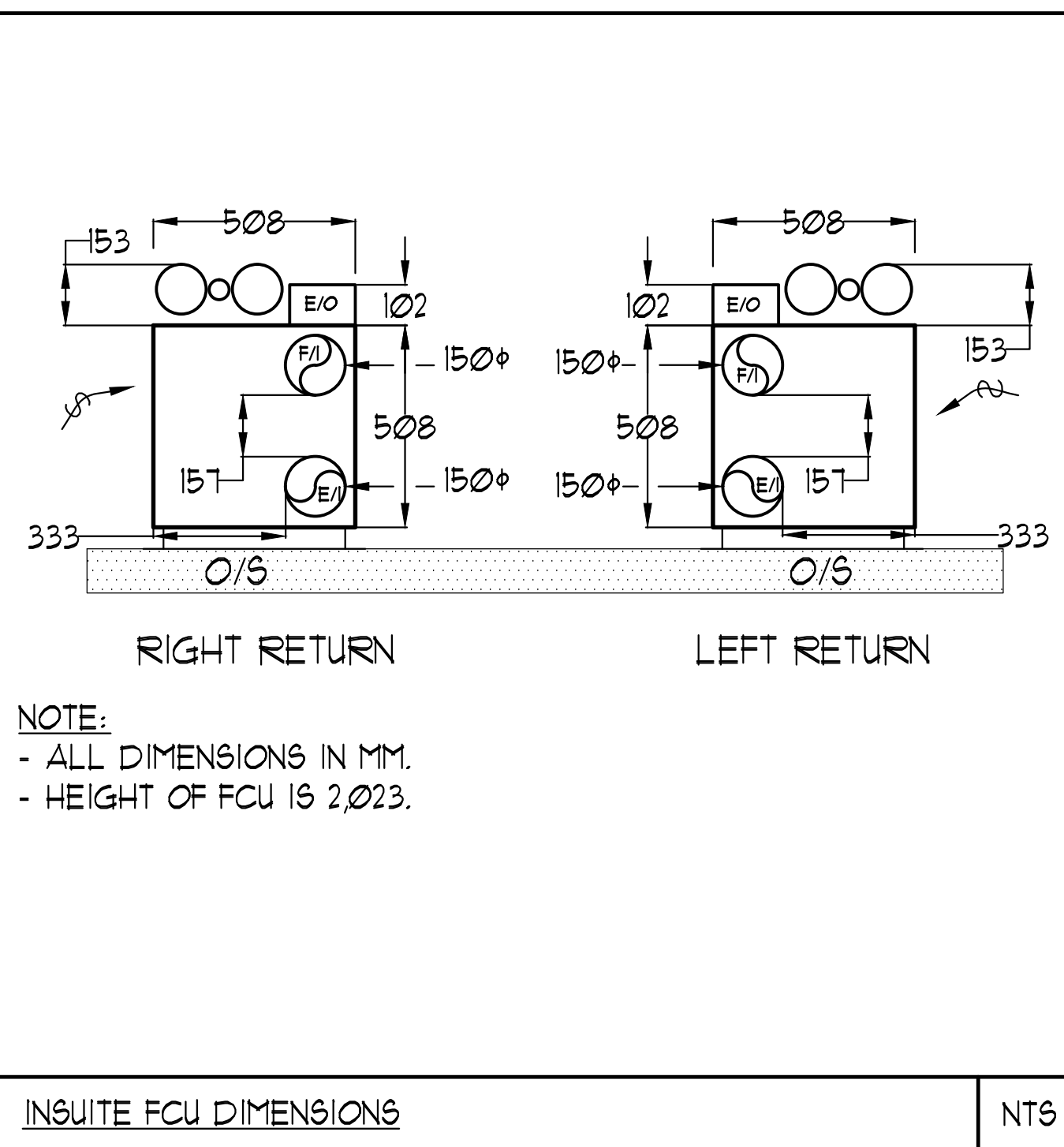
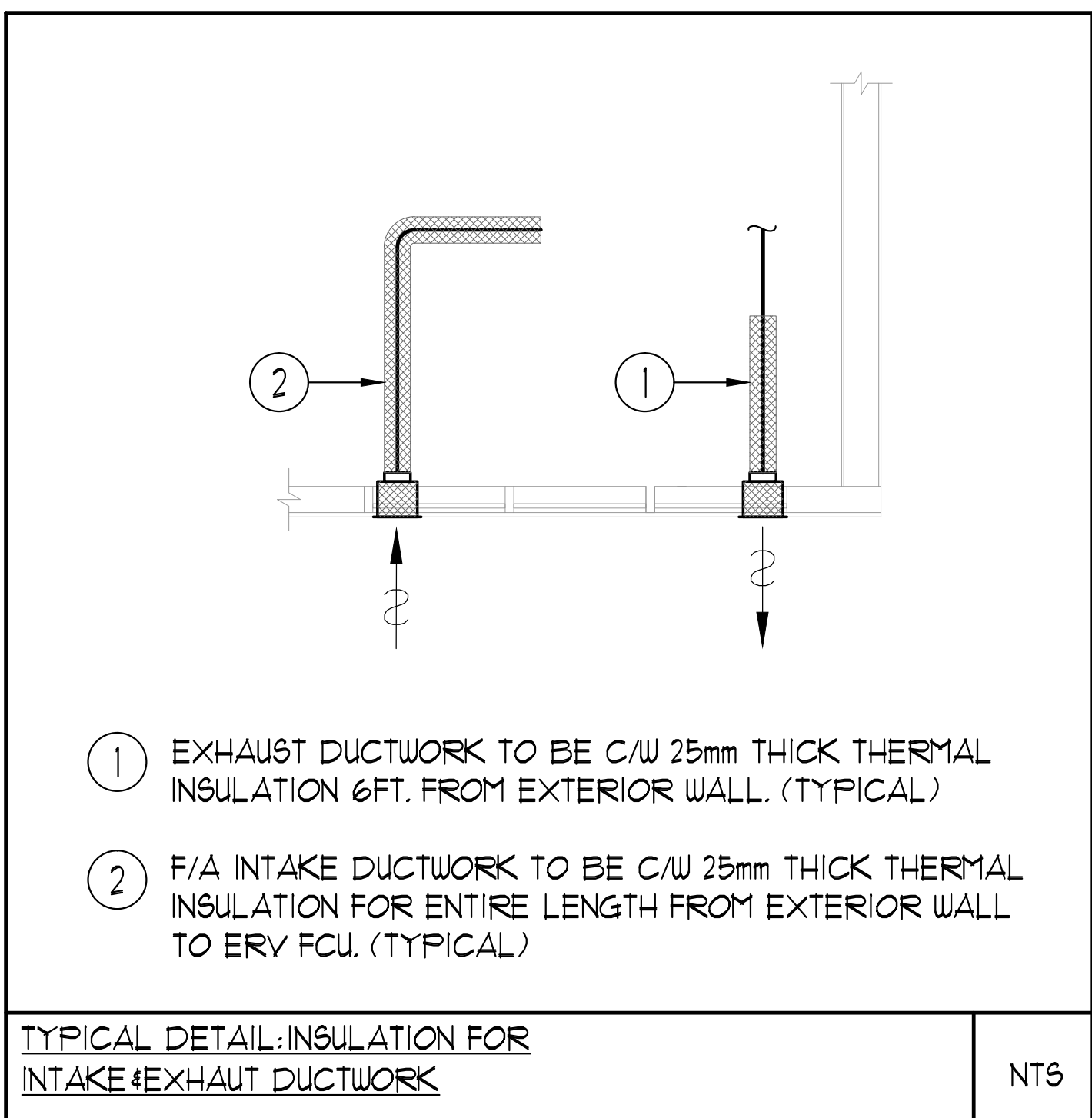




UNIT	NAME	AREA (SQ. FT.)	* OF WR	* OF FOLDER	SIZE (T)	FIXTURE UNITS	BR	SQ. FT./T
214	IC-DT2	590	2	0	1	16	1	590
215	IC-DcT	600	2	0	1	16	1	600
216	IC-DIT	610	2	0	1	16	1	610
217	IDT	480	1	0	1	10	1	480
218	IC-DaT	510	1	1	1	16	1	510
219	2G	700	2	0	1.5	16	1	467
221	IM	550	1	0	1.5	10	1	367
222	IC-DcT	655	2	0	1.5	16	1	437
223	IC-DcT	620	2	0	1	16	1	620
224	IC-DcT	620	2	0	1	16	1	620
225	IL2	615	1	0	1.5	10	1	410
226	ILaT	595	1	0	1.5	10	1	397
227	ILT	615	1	0	1.5	10	1	410

GRILLE SIZING TABLE			VERTICAL FAN COIL SIZE		
DESIGNATION	SIZE	L/S (UNLESS SPECIFIED OTHERWISE)	DESIGNATION	MODEL	W x D
SG-A	300x100	41-10	FCU-IT	450	508x660
SG-B	300x150	71-93	FCU-1BT	600	508x660
SG-C	400x150	94-140	FCU-2T	800	508x660
SG-D	450x150	141-188	FCU-25T	1000	559x660
EG-A	150x150	35	FCU-3T	1200	559x660
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			

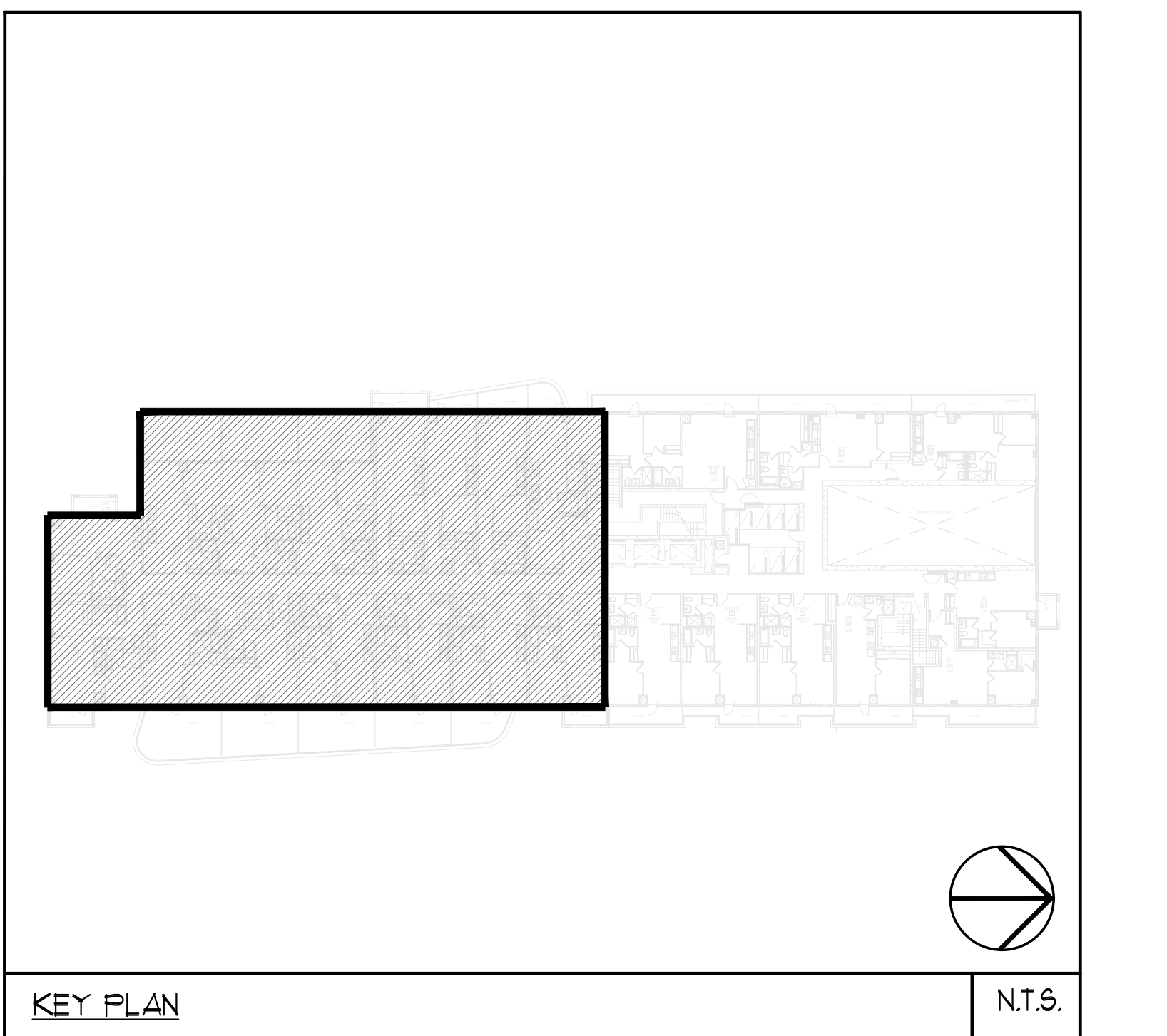
DUCT SIZING TABLE (406 m/s, 800 FPM)					
DESIGNATION	L/s	DUCT SIZE	DESIGNATION	L/s	DUCT SIZE
(A)	47	100x150	(G)	189	350x150
(B)	71	150x150	(H)	236	450x150
(C)	94	200x150	(J)	283	500x150
(D)	118	200x150	(K)	330	600x150
(E)	141	250x150	(L)	377	500x200
(F)	165	300x150			

- 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 DRYER, 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.H4C 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 313.1
 - 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 = 2950mm
CLEAR PRODUCT = 2100mm

- 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.
 - 150° KITCHEN / DRYER / W/R / FCU INTAKE / FCU EXHAUST DUCT. (TYPICAL UNLESS OTHERWISE NOTED)
 - 150° GAS PIPE C/W VALVE AND CAP FOR BBQ.
 - 150° DOW FOR NFHB TO BE CONNECTED TO SUITE'S MAIN DOW LINE.
 - 100° RUL FROM ABOVE AND DOWN.
 - 150° RUL FROM ABOVE AND DOWN.



LEGEND MECHANICAL

SYMBOL	DESCRIPTION
[Symbol]	SUPPLY AIR DIFFUSER
[Symbol]	LINEAR SUPPLY DIFFUSER
[Symbol]	THRESHOLD
[Symbol]	FAN SWITCH
[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]	HOTWATER DAMPER
[Symbol]	BACKDRAFT DAMPER
[Symbol]	OPPOSED BLADE VOLUME CONTROL DAMPER
[Symbol]	TURNING VANE
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	ACOUSTIC INSULATION
[Symbol]	TYPE OF EQUIPMENT
[Symbol]	TYPE OF DIFFUSER OR GRILLE
[Symbol]	VALVE SIZE OR DIFFUSER NECK SIZE
[Symbol]	WALL/CEILING/DOOR/SLAB
[Symbol]	STARTER / 3 PHASE / 1 PHASE /
[Symbol]	IN-SUITE DRY WATER BATCH
[Symbol]	FAN SWITCH / IN-SUITE DRY WATER BATCH
[Symbol]	CO SENSOR
[Symbol]	GAS LINE
[Symbol]	GAS METER
[Symbol]	GAS COOK
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	STAIRWAY ABOVE GRADE
[Symbol]	STAIRWAY BELOW GRADE
[Symbol]	STORY ABOVE GRADE
[Symbol]	STORY BELOW GRADE
[Symbol]	DOMESTIC COLD WATER
[Symbol]	DOMESTIC HOT WATER
[Symbol]	DOMESTIC HOT WATER RECIRCULATION
[Symbol]	WATER METER
[Symbol]	FLOOR DRAIN
[Symbol]	PANTRY FLOOR DRAIN
[Symbol]	HUB DRAIN
[Symbol]	ROOF DRAIN
[Symbol]	BLVD DRAIN
[Symbol]	BLVD AREA DRAIN
[Symbol]	BLVD CATCH BASIN
[Symbol]	STAIRWAY TRAP
[Symbol]	ELBOW UP
[Symbol]	ELBOW DOWN
[Symbol]	WALL CLEANOUT
[Symbol]	FLOOR CLEANOUT
[Symbol]	HUB
[Symbol]	NON-FREEZE HOSE BIBB
[Symbol]	GLOBE VALVE
[Symbol]	GATE VALVE
[Symbol]	BALL VALVE
[Symbol]	BUTTERFLY VALVE
[Symbol]	PRESSURE REDUCING VALVE
[Symbol]	CHECK VALVE
[Symbol]	COP-PRESSURE AIR OUTLET
[Symbol]	BACKFLOW PREVENTER
[Symbol]	CIRCUIT BALANCING VALVE
[Symbol]	MULTIPLE PIPES
[Symbol]	TEMPERATURE SENSOR
[Symbol]	THERMISTOR
[Symbol]	2-WAY MODULATING VALVE
[Symbol]	3-WAY MODULATING VALVE
[Symbol]	1/2" (4" D) THERMOWELL
[Symbol]	C/W 12" BURNING 1/2" (4" D)
[Symbol]	FLOOR ELEVATION ABOVE LEVEL
[Symbol]	FLOOR ELEVATION BELOW LEVEL
[Symbol]	HEADROOM (FLOOR TO US HEIGHT)

REVISIONS

NO.	DATE	DESCRIPTION	BY
1	2015-01-13	ISSUED FOR SITE INSPECTION	EP
2	2015-01-13	ISSUED FOR TENDER	EP
3	2015-01-13	RE-ISSUED FOR PERMIT	EP
4	2015-01-13	ISSUED FOR PERMIT	EP
5	2015-01-13	DESCRIPTION	BY

NOVA TREND

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DRAWING TITLE: 2/F SOUTH MECHANICAL LAYOUT

PROJECT TITLE: 50 ALEXANDRA PARK BLOCK II 35 CAMERON STREET TORONTO

DRAWN BY: G.S. CHECKED BY: E.P. SCALE: 1:50

DATE: FEB, 13 PROJECT NUMBER: 1313 DRAWING NUMBER: M-12 OF 43