

PSPC SWING SPACE 9TH FLOOR

50 RUE VICTORIA, GATINEAU, QC
MECHANICAL

Canada

Public Works and
Government Services
Canada
Travaux publics et
services gouvernementaux
Canada
Real Property
Branch
Direction générale
des biens immobiliers

Goodkey Weedmark
Consulting Engineers

GOODKEY WEEDMARK & ASSOCIATES LIMITED
1688 Woodward Dr.
Ottawa, Ontario
Canada K2C 3R8 GMAIL PROJECT # 2017-446-1

DRAWING LIST

SYMBOL	DESCRIPTION
M001	MECHANICAL DRAWING LIST, LEGENDS, SCHEDULES & DETAILS
M101	MECHANICAL - 9TH FLOOR - FIRE PROTECTION - DEMOLITION
M102	MECHANICAL - 9TH FLOOR - FIRE PROTECTION - NEW WORK
M201	MECHANICAL - 9TH FLOOR & BASEMENT - PLUMBING & UTILITIES - DEMOLITION
M202	MECHANICAL - 9TH FLOOR - PLUMBING & UTILITIES - NEW WORK
M301	MECHANICAL - 9TH FLOOR - HVAC - DEMOLITION
M302	MECHANICAL - 9TH FLOOR - HVAC - NEW WORK

GENERAL LEGEND

SYMBOL	DESCRIPTION
	EXISTING PIPING/DUCTWORK/EQUIPMENT
	EXISTING PIPING/DUCTWORK/EQUIPMENT TO BE REMOVED/RELOCATED
	NEW/RELOCATED PIPING/DUCTWORK/EQUIPMENT
	EXISTING PIPING/DUCTWORK/EQUIPMENT BELOW SLAB
	NEW PIPING/DUCTWORK/EQUIPMENT BELOW SLAB
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(N)	DENOTES NEW EQUIPMENT
(X)	DENOTES EQUIPMENT TO BE REMOVED

CONTROLS LEGEND

SYMBOL	DESCRIPTION
	LOW VOLTAGE CONTROL WIRING
	THERMOSTAT
	TEMPERATURE SENSOR
CM	CEILING MOUNTED

FIRE PROTECTION LEGEND

SYMBOL	DESCRIPTION
	SPRINKLER PIPE
	DRY SPRINKLER PIPE
	CONCEALED SPRINKLER
	SEMI-RECESSED SPRINKLER
	UPRIGHT SPRINKLER
	PIPE UP
	PIPE DOWN
	FIRE EXTINGUISHER
	FIRE HOSE CABINET

UTILITIES/PLUMBING LEGEND

SYMBOL	DESCRIPTION
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	DOMESTIC COLD WATER
	CONDENSATE
	REFRIGERANT
	PIPING OFFSET
	BRANCH PIPING DOWN
	PIPING DOWN
	PIPING UP
	REDUCER
	FLOW
	CAP
	CLEANOUT
	ISOLATION VALVES
	PIPE BREAK
	REDUCED PRESSURE BACK FLOW PREVENTER
	FLOOR DRAIN
	DRINKING FOUNTAIN

HVAC LEGEND

SYMBOL	DESCRIPTION
	RECTANGULAR DUCTWORK
	ROUND DUCTWORK
	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
	THERMALLY INSULATED DUCTWORK (RETURN OR SUPPLY)
	DUCTWORK UP
	DUCTWORK DOWN
	TAKE-OFF C/W BALANCING DAMPER
	TAKE-OFF
	SQUARE SUPPLY DIFFUSER (SD)
	LINEAR SUPPLY DIFFUSER
	RECTANGULAR SUPPLY GRILLE (SG)
	RETURN GRILLE (RG)
	TRANSFER GRILLE (TG)
	WALL GRILLE (TYPE)
	LOUVRE (L)
	ACOUSTICALLY LINED TRANSFER DUCT (TD)
	BALANCING DAMPER (BD)
	VARIABLE AIR VOLUME BOX (VAV)
	DUAL DUCT MIXING BOX
	FAN POWERED BOX (FPB)
	TRANSFER FAN (TF)
	DIFFUSER TAG
	DIFFUSER TYPE
	AIRFLOW (L/S)/CFM
	SIZE (mm)/in
	GRILLE TAG
	GRILLE TYPE
	AIRFLOW (L/S)/CFM
	DIMENSIONS (mm)/in

VAV UNIT & DUAL DUCT MIXING BOX SCHEDULE

UNIT NO.	MAX. FLOW (L/s)	MIN. FLOW (L/s)	INLET DIAMETER (mm)	OUTLET SIZE (mm)	REMARKS
VAV4	75	25	100	200x200	--
VAV6	150	30	150	300x200	--
VAV8	300	60	200	300x250	--
VAV10	375	100	250	350x300	--
MB6	220	--	--	--	AS EXISTING
MB7	265	--	--	--	AS EXISTING
MB8	345	--	--	--	AS EXISTING
MB9	430	--	--	--	AS EXISTING
MB12	660	--	--	--	AS EXISTING

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.

FIXTURE CONNECTION SCHEDULE

TAG	DCW (8mm)	DHW (8mm)	SAN (8mm)	BASIS OF DESIGN
S1	13	13	40	SINK: DOUBLE COMPARTMENT, NON-LEDGE BACK, 1.0 mm THICK TYPE 302 STAINLESS STEEL, SELF-RIMMING, UNDERCOATED, CLAMPS. OVERALL SIZE: 790x520x180 MM. FAUCET: SINGLE LEVER HANDLE W/ SWING SPOUT, CHROME PLATED BRASS FINISH, 8.35 L/MIN @ 413 kPa, AERATOR, SPRAY FITTING.

NOTES: 1. COORDINATE EXACT PIPING LOCATIONS ON SITE.
2. VENT TO MEET CBC REQUIREMENTS, VENTING THROUGH SLOPED ROOFS NOT PERMITTED.
3. ALL SINKS IDENTIFIED AS BUILT-IN: BASINS BY GENERAL TRADES. ALL OTHER ASSOCIATED ACCESSORIES AND TRIM BY MECHANICAL. ALL PIPEWORK TO BE INSTALLED NEATLY AND COORDINATED WITH ALL OTHER TRADES.
4. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY.
5. MINIMUM UNDERGROUND SANITARY PIPING SIZE TO BE 60mm.
6. INSTALLATION OF SINK TO COMPLY WITH LATEST EDITION OF CSA B651 STANDARD FOR BARRIER-FREE ACCESS. INSULATE DOMESTIC HOT WATER AND DRAIN PIPING UNDER COUNTER. SEE ARCH. DWG FOR DETAILS.
ACCEPTABLE MATERIALS: SKALLGARD WHITE OR MINERAL FIBRE WITH WHITE PVC JACKET.

FAN POWERED TERMINAL UNIT SCHEDULE

TAG	LOCATION	MAX. PRIMARY AIR (L/s)	MIN. PRIMARY AIR (L/s)	MAX. RETURN AIR (L/s)	TOTAL SUPPLY AIR (L/s)	INLET DIAMETER (mm)	FILTERS	ELECTRICAL DATA	REMARKS
FPB-1	MEDIUM MEETING ROOM 914	300	65	235	300	200	25mm THICK	1/4 120/1/60	C/W DISCONNECT SWITCH, ECM MOTOR, INLET & DISCHARGE SILENCER, HANGER BRACKETS & RETURN FILTER ASSEMBLY
FPB-2	SMALL MEETING ROOM 915	150	30	120	200	200	25mm THICK	1/4 120/1/60	C/W DISCONNECT SWITCH, ECM MOTOR, INLET & DISCHARGE SILENCER, HANGER BRACKETS & RETURN FILTER ASSEMBLY
FPB-3	MEDIUM MEETING ROOM 901	300	65	235	300	200	25mm THICK	1/4 120/1/60	C/W DISCONNECT SWITCH, ECM MOTOR, INLET & DISCHARGE SILENCER, HANGER BRACKETS & RETURN FILTER ASSEMBLY
FPB-4	SMALL MEETING ROOM 907	150	30	120	200	200	25mm THICK	1/4 120/1/60	C/W DISCONNECT SWITCH, ECM MOTOR, INLET & DISCHARGE SILENCER, HANGER BRACKETS & RETURN FILTER ASSEMBLY

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. ALL FPB SHALL HAVE A SINGLE POINT POWER SUPPLY.

FAN SCHEDULE

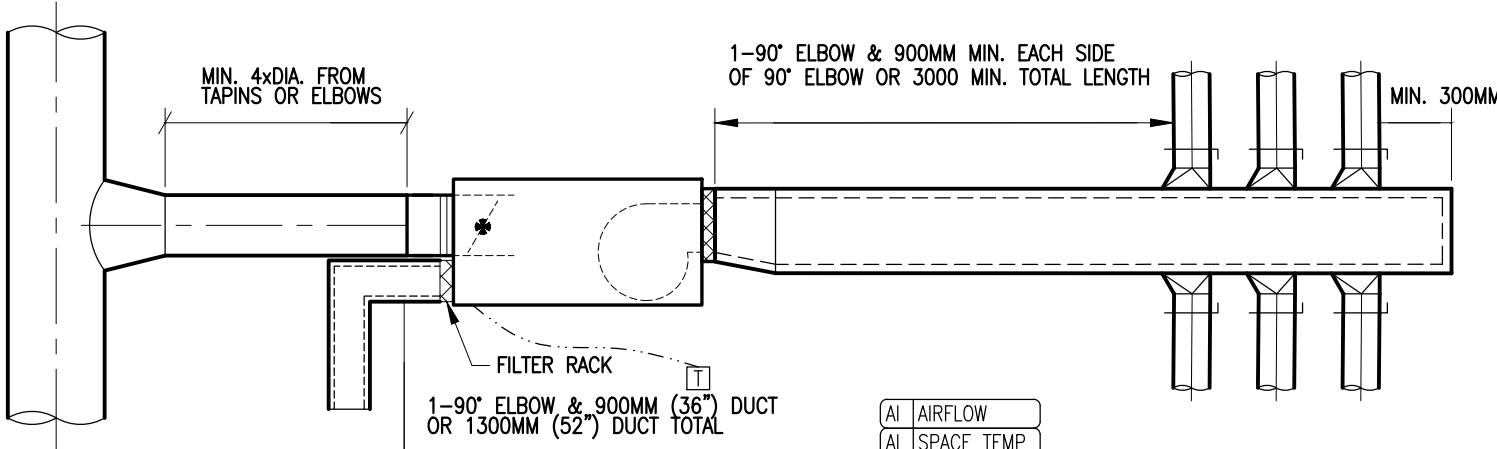
TAG	LOCATION	FUNCTION	FAN DATA	ELECTRICAL DATA	REMARKS
TF1	ELEC ROOM 913	TRANSFER AIR	TYPE: CEILING TRANSFER FAN DRIVE: (BELT/DIRECT) AIR FLOW (L/s): 140 ESP (Pa): 63 FAN SPEED (RPM): 915 SONES: 2	MOTOR SIZE (HP): 1/6 V/PH/Hz: 115/1/60	C/W UNIT MOUNTED GRILLE, AND UNIT MOUNTED SPEED CONTROLLER SUPPLIED BY MECHANICAL CONTRACTOR. INSTALLED & WIRED BY ELECTRICAL CONTRACTOR.

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. DISCONNECT SWITCH BY DIV. 26.
3. SPEED SWITCHES SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

DX SPLIT AC UNIT SCHEDULE

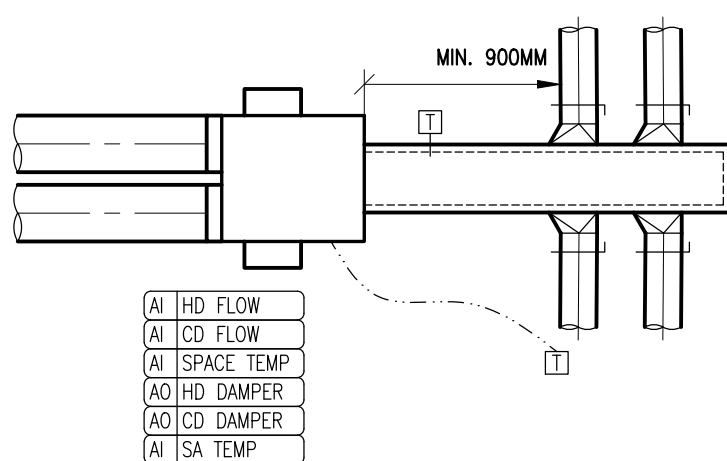
TAG	LOCATION	CAPACITY (kW)	AIRFLOW RATE RANGE (L/s)	INDOOR DESIGN TEMP (DB/WH/°C)	ELECTRICAL DATA	TAG	LOCATION	AMBIENT TEMP (°C)	ELECTRICAL DATA	REMARKS
AC2	TELECOM ROOM 910	3.5	150-200	22 / 15	MCA V/PH/Hz: 208/1/60	CU2	CEILING SPACE	35	MCA/MOP V/PH/Hz: 11/28 208/1/60	--

NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.
2. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY.



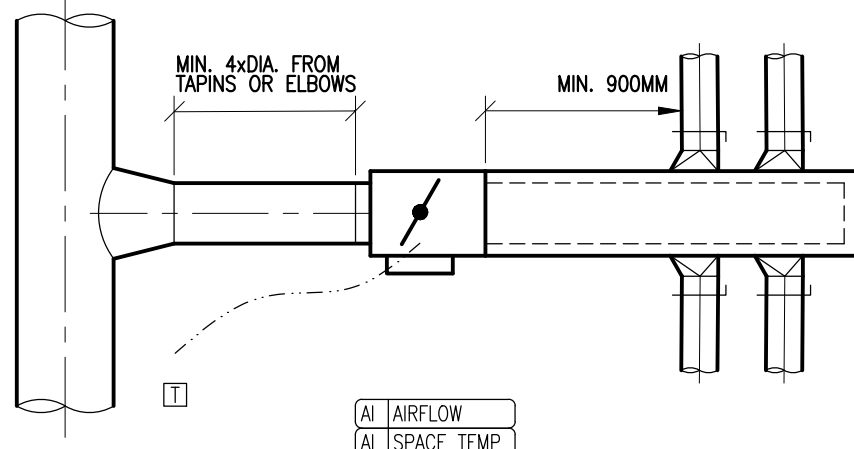
HVAC
TYPICAL FAN POWERED BOX

1
M001
NTS



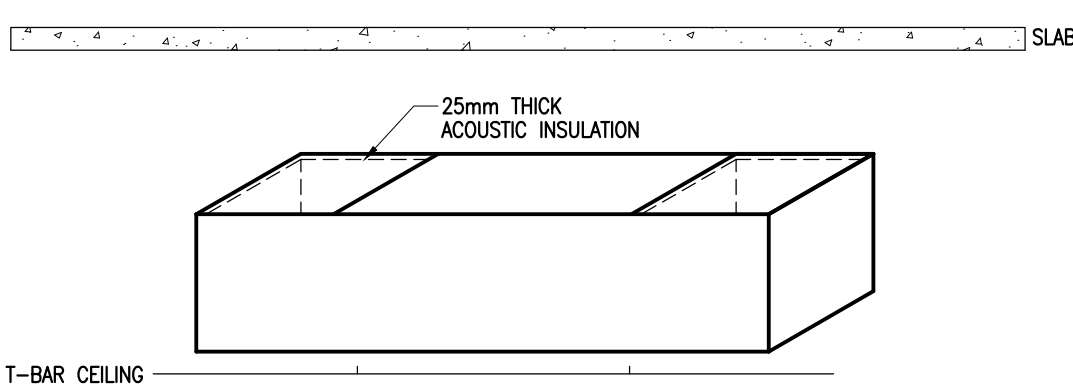
HVAC
TYPICAL DUAL DUCT MIXING BOX

3
M001
NTS



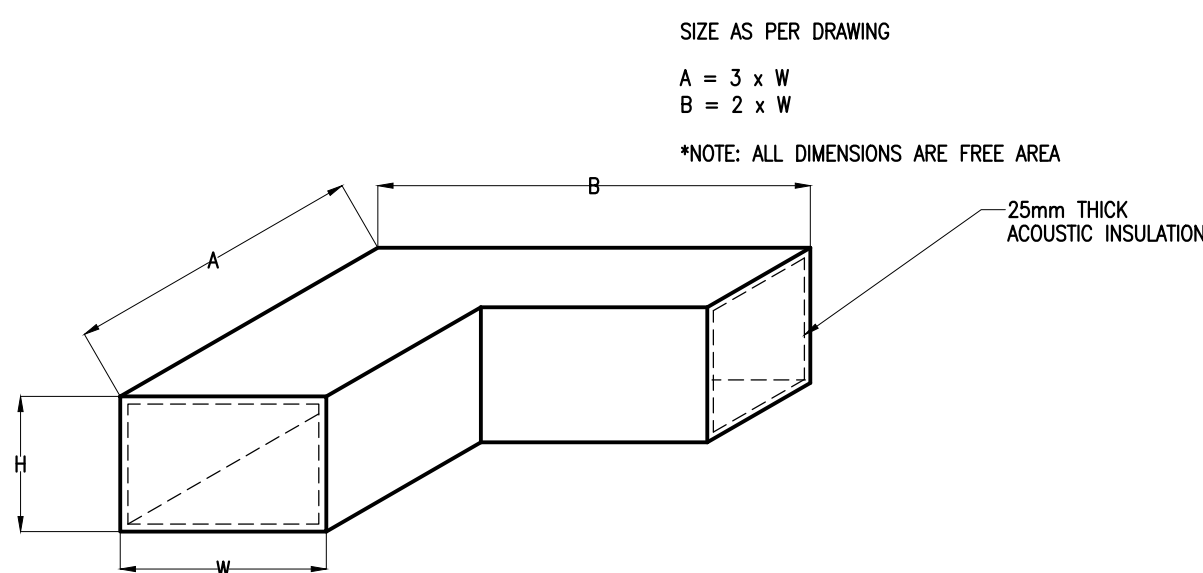
HVAC
TYPICAL VAV BOX

2
M001
NTS



C-STYLE
TRANSFER DUCT

4
M001
NTS



L-SHAPE
TRANSFER DUCT

5
M001
NTS