

# 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
—S—	SPRINKLER PIPE
—DS—	DRY SPRINKLER PIPE
○C	CONCEALED SPRINKLER
○	SEMI-RECESSED SPRINKLER
⊕	UPRIGHT SPRINKLER
○—A	PIPE UP
○—D	PIPE DOWN
⊕	FIRE EXTINGUISHER
HC	FIRE HOSE CABINET

UTILITIES/PLUMBING LEGEND	
SYMBOL	DESCRIPTION
—CHWS—	CHILLED WATER SUPPLY
—CHWR—	CHILLED WATER RETURN
—DCW—	DOMESTIC COLD WATER
—COND—	CONDENSATE
—REF—	REFRIGERANT
—P—	PIPING OFFSET
—B—	BRANCH PIPING DOWN
—D—	PIPING DOWN
—U—	PIPING UP
—R—	REDUCER
—F—	FLOW
—I—	CAP
—II—	CLEANOUT
—V—	ISOLATION VALVES
—S—	PIPE BREAK
—RBP—	REDUCED PRESSURE BACK FLOW PREVENTER
—FD1—	FLOOR DRAIN
—DF—	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)
—	LOUVER (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					BASIS OF DESIGN
TAG	DCW (Ømm)	DHW (Ømm)	SAN (Ømm)		
S1	13	13	40		SINK: DOUBLE COMPARTMENT, NON-LEDGE BACK, 1.0 mm THICK TYPE 302 STAINLESS STEEL, SELF-RIMMING, UNDERGRADED, CLAMPS. OVERALL SIZE: 790x520x180 MM. FAUCET: SINGLE LEVER HANDLE W/ SWING SPOUT, CHROME PLATED BRASS FINISH, 8.35 L/MIN @ 41.3 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 50A.  
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 MATERIAL: SKALLOLAR 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
								MOTOR SIZE (HP)	V/Ph/Hz	
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

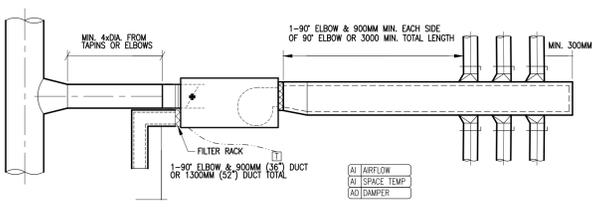
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.  
2. ALL FPB SHALL HAVE A SINGLE POINT POWER SUPPLY.

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

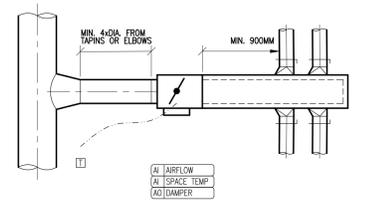
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.  
2. DISCONNECT SWITCH BY DW. 26.  
3. SPEED SWITCHES SHALL BE SUPPLIED BY MECHANICAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR.

DX SPLIT AC UNIT SCHEDULE												
TAG	LOCATION	FAN COIL (INDOOR UNIT)			CONDENSING UNIT			REMARKS				
		CAPACITY (kW)	AIRFLOW RATE RANGE (L/s)	INDOOR DESIGN TEMP (DB/MD)(°C)	LOCATION	AMBIENT TEMP (°C)	ELECTRICAL DATA (MCA/MOP V/Ph/Hz)					
AC2	TELECOM ROOM 910	3.5	150-200	22 / 15	1	208/1/60	CU2	CEILING SPACE	35	11/28	208/1/60	-

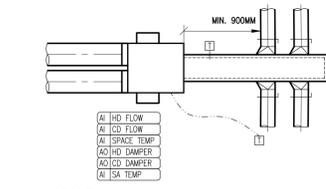
NOTES: 1. FOR DETAILS REFER TO SPECIFICATIONS.  
2. MANUFACTURER NAME & MODEL NUMBER REPRESENT ACCEPTABLE QUALITY STANDARD ONLY.



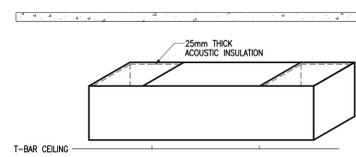
1 M001 NTS  
HVAC TYPICAL FAN POWERED BOX



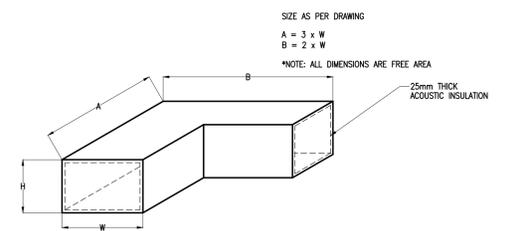
2 M001 NTS  
HVAC TYPICAL VAV BOX



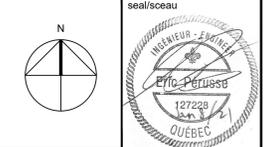
3 M001 NTS  
HVAC TYPICAL DUAL DUCT MIXING BOX



4 M001 NTS  
C-STYLE TRANSFER DUCT



5 M001 NTS  
L-SHAPE TRANSFER DUCT



Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative.

revisions	description	date
5	RE - ISSUED FOR TENDER	2021-01-08
4	RE - ISSUED FOR TENDER	2020-03-12
3	ISSUED FOR TENDER	2019-12-04
2	ISSUED FOR 90% REVIEW	2019-05-07
1	ISSUED FOR 60% REVIEW	2019-04-23

A	B	C
A detail no. du détail	B location drawing no. sur dessin no.	C drawing no. dessin no.

project PSPC SWING SPACE 9TH FLOOR  
PDP1, 50 RUE VICTORIA

drawing MECHANICAL DRAWING LIST, LEGENDS, SCHEDULES & DETAILS  
dessin

Designed By	S.HAMILTON / J.CHENG	Conçu par	
Date	JAN 2021	(yyyy/mm/dd)	
Drawn By	J.CHENG / P.AZDAJIC	Dessiné par	
Date	JAN 2021	(yyyy/mm/dd)	
Reviewed By	S.HAMILTON	Examiné par	
Date	JAN 2021	(yyyy/mm/dd)	
Approved By	S.HAMILTON	Approuvé par	
Date	JAN 2021	(yyyy/mm/dd)	
Tender	FRANK RADKE	Soumission	
Project Manager	Administrateur de projets		
Project no.	R.097053	No. du projet	
Drawing no.	M001	No. du dessin	

