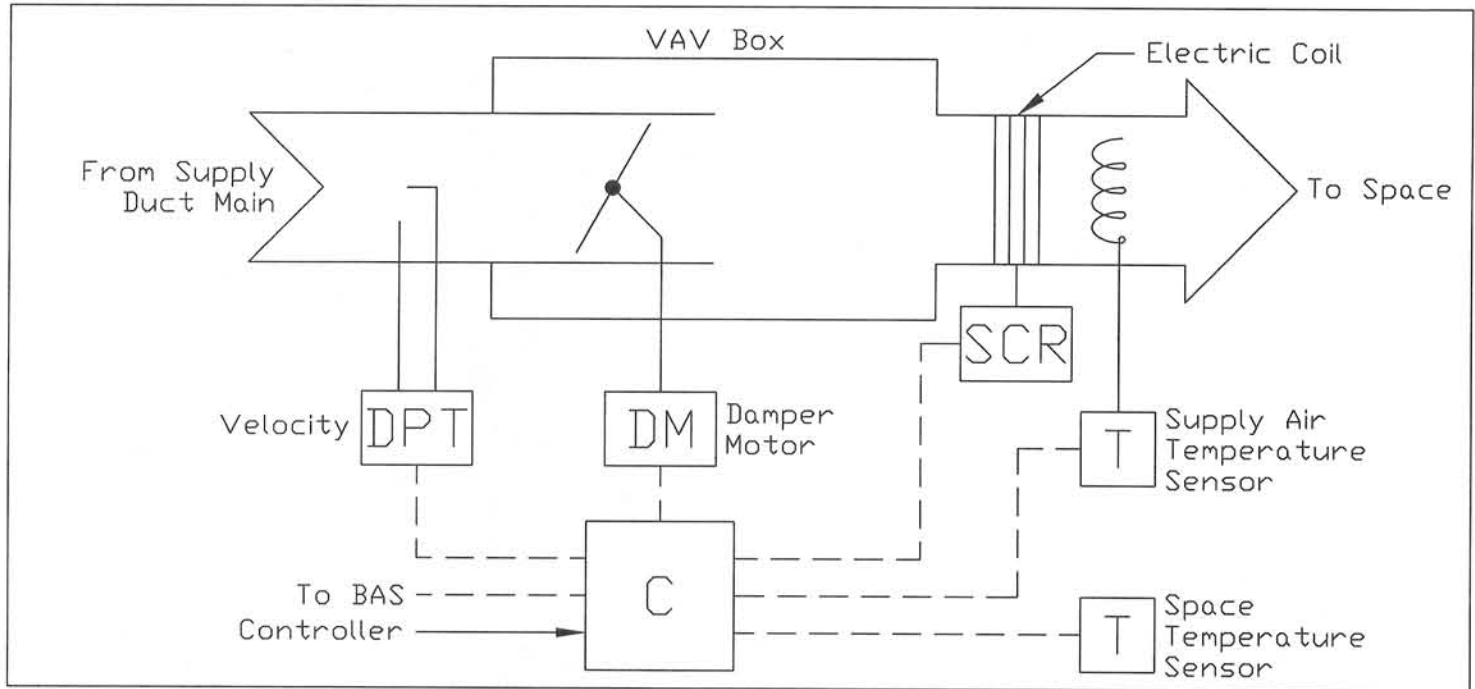
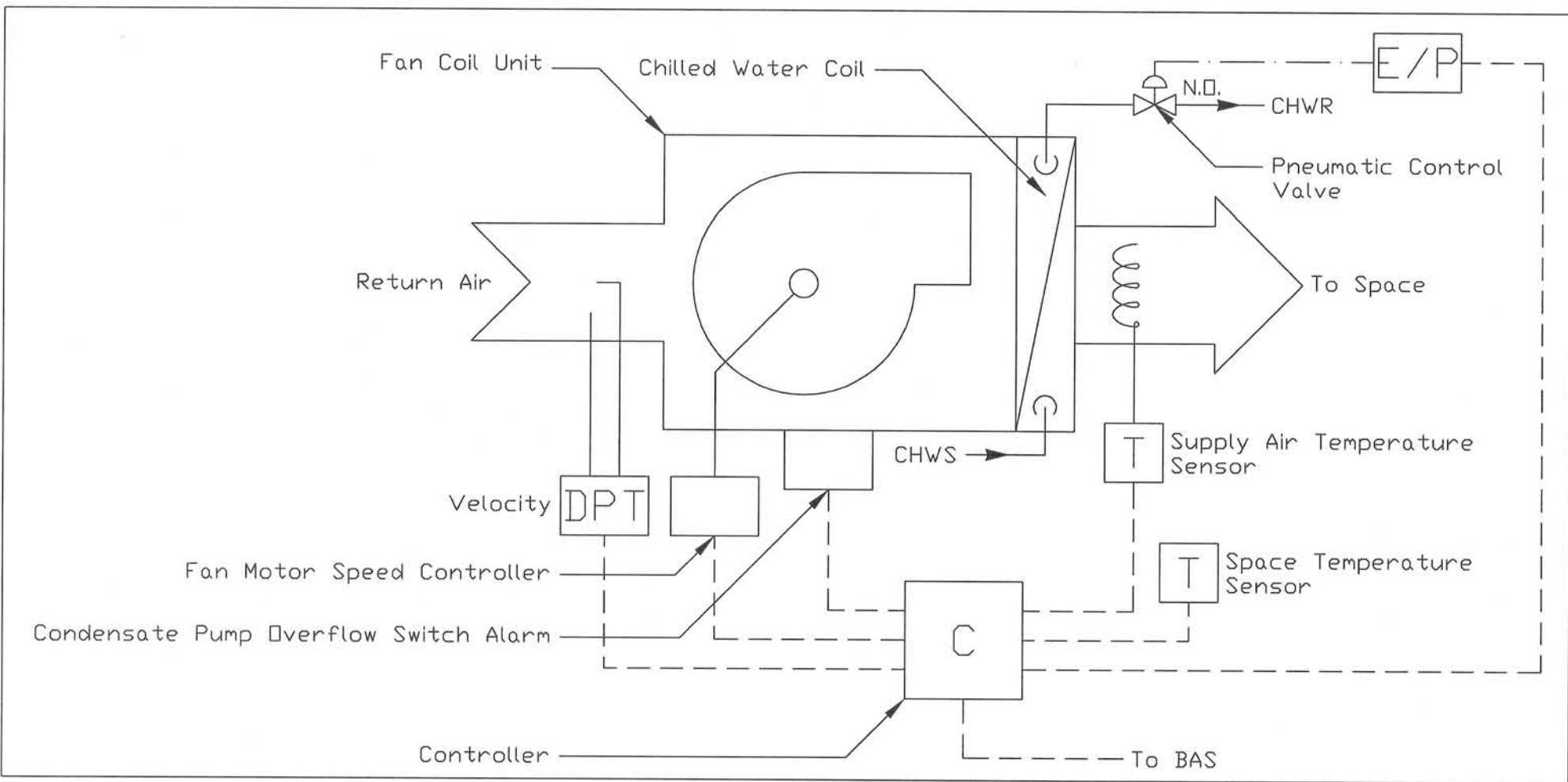


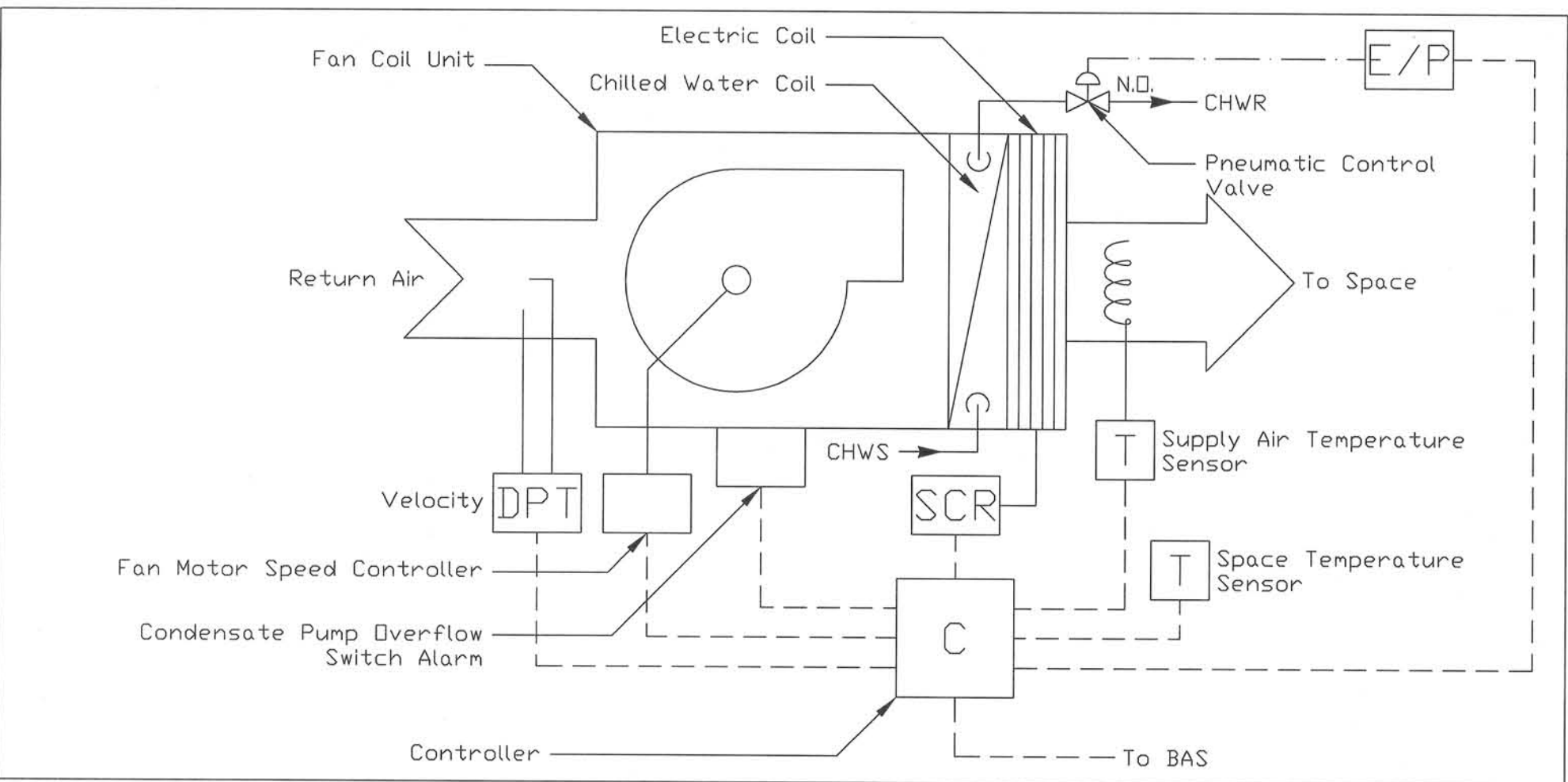
1 VAV BOX
M-8 N.T.S.



2 VAV BOX C/W ELECTRIC REHEAT
M-8 N.T.S.



3 FAN COIL UNIT C/W COOLING
M-8 N.T.S.



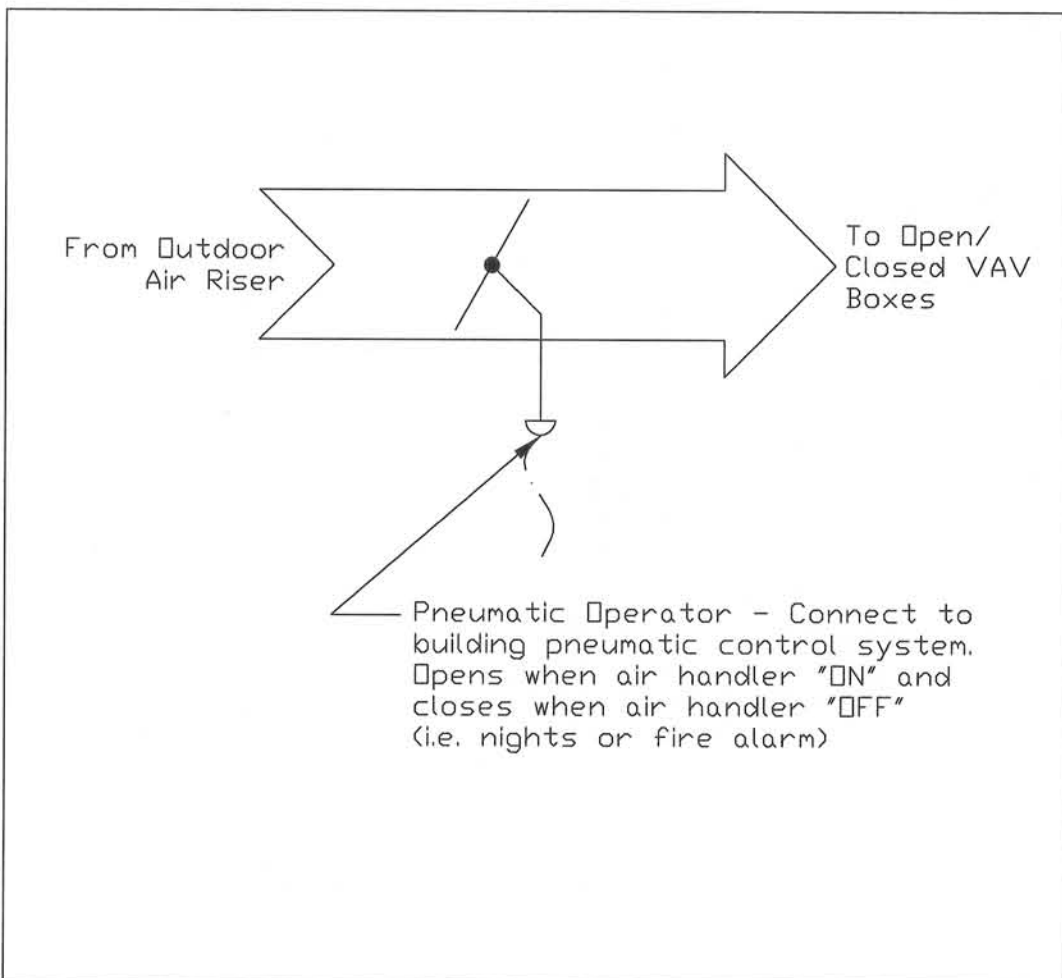
4 FAN COIL UNIT C/W COOLING & ELECTRIC REHEAT
M-8 N.T.S.

FAN COIL SCHEDULE																	
Tag	Location (Room No.)	Fan Data		Cooling Coil Data							Electrical Data						
		Air Flow (L/s)	ESP (Pa.)	Total Capacity (kW)	Sensible Capacity (kW)	Water Flow (L/s)	EAT DB/WB (°C)	LAT DB/WB (°C)	EWT (°C)	LWT (°C)	ECM Motor			Electric Coil			Notes
											HP	FLA	V / Ph / Hz	Tag	kW	V / Ph / Hz	
FC-6-1	78	110	125	2.14	1.67	0.092	25.5 / 18.2	12.8 / 12.1	7.2	12.8	1/3	5	120/1/60	-	-	-	1,2,3,5,7
FC-6-2	122A	250	125	4.95	3.81	0.21	25.4 / 18.1	12.8 / 12.1	7.2	12.8	1/3	5	120/1/60	-	-	-	1,2,3,5,6
FC-6-3	135	225	125	5.27	3.72	0.23	26.6 / 19.2	12.8 / 12.1	7.2	12.8	1/3	5	120/1/60	-	-	-	1,2,3,5,6
FC-6-4	147	200	150	3.89	2.99	0.17	25.6 / 18.4	13.1 / 12.5	7.2	12.8	1/3	2.8	120/1/60	RH-6-4	2	600/1/60	1,2,3,4,5,6
FC-6-5	148	245	125	4.69	3.69	0.2	25.3 / 18.0	12.8 / 12.1	7.2	12.8	1/3	5	120/1/60	-	-	-	1,2,3,5,6
FC-6-6	152	130	125	2.66	2.02	0.12	25.7 / 18.3	12.8 / 12.1	7.2	12.8	1/3	5	120/1/60	-	-	-	1,2,3,5,7
NOTES:																	
1. Units to come with variable speed ECM motor. Balancing contractor to set up during balancing.																	
2. BAS contractor to provide room temperature sensor and wire controls to unit and BAS system.																	
3. Units to be provided with condensate pump kit																	
4. Provide electric heating coil complete with SCR controller.																	
5. Unit to have non-fused disconnect																	
6. Side access filter																	
7. Bottom access filter																	

GRILLES AND DIFFUSERS												
Tag	Type	Slot Quantity / Width (mm)	Length (mm x mm)	Inlet Collar Size (mm)	Damper	Ceiling Type	Colour	NC (Max.)	Throw			Notes
									0.762 (m/s)	0.508 (m/s)	0.254 (m/s)	
A	Linear Slot Diffuser - Supply Air	1:19	1422	200	No	T-Bar	Black	22	0.91	1.22	2.74	1,2,3,4

NOTES:

- Complete with ice tong type moveable pattern controller
- Custom Length
- Balancing contractor to adjust diffuser throw/pattern during balancing.
- Throw based upon manufacturer published data for 50 L/s and 1500mm length. Actual length for this project as noted in table. See drawings for actual airflow.



5 PNEUMATIC MOTORIZED DAMPER - OPEN/CLOSED
M-8 N.T.S.

EXISTING AIR VALVES									
Tag No.	Existing				Revised				Notes
	Min. Airflow (L/s)	Max. Airflow (L/s)	Quantity	Diam. (mm)	Min. Airflow (L/s)	Max. Airflow (L/s)	Quantity	Diam. (mm)	
1	89	223	3	250	89	223	3	250	2
1A	59	149	2	200	59	149	2	200	2
13	67	166	2	200	67	166	2	200	1,3
14	112	280	4	250	85	211	3	250	1,3
19	50	125	2	200	50	125	2	200	2
27	133	333	4	300	133	333	4	300	2
29	166	416	5	300	133	333	4	300	1,3
34	133	333	4	300	67	166	2	200	1,3,4
34A	66	166	2	200	33	83	1	200	3
35	166	416	5	300	133	333	4	300	3
38	166	416	5	300	133	333	4	300	3
39	166	416	5	300	133	333	4	300	1,3

NOTES:

- Thermostat relocated
- Air valve deleted
- Rebalance air valve to new airflows, divide flow equally for remaining outlets.
- Replace air valve with size as noted.

CONDENSATE PUMPS							
Tag	Capacity		Max. Fluid Temp (deg C)	Electrical			Notes
	L/Hr	Head (m)		A	HP	V / Ph / Hz	
CP-1	246	0.31	60	1	1/50	115 / 1 / 60	1,2,3
NOTES:							
1. Automatic operation							
2. Complete with overflow safety switch							
3. Plug type power connection, 120 V							

NEW VAV BOXES								
Tag	Location (room No.)	Box Size	Air Flow Data		Heating Coil			Notes
			Min. Flow (L/s)	Max. Flow (L/s)	Tag	kW	V / Ph / Hz	
VAV-6-1	78	4	0	25	-	-	-	1, 3
VAV-6-2	122A	5	0	93	-	-	-	1, 3
VAV-6-3	135	5	0	93	-	-	-	1, 3
VAV-6-4	147	4	0	51	-	-	-	1, 3
VAV-6-5	148	4	0	52	-	-	-	1, 3
VAV-6-6	152	4	0	34	-	-	-	1, 3
VAV-6-7	102-103	9	188	313	RH-6-7	4.5	600 / 1 / 60	1, 2, 4, 5
VAV-6-8	117-118	9	188	313	RH-6-8	4	600 / 1 / 60	1, 2, 4, 5
NOTES:								
1. BAS controls to be provided by the controls contractor for installation at site.								
2. Heating coil capacity based upon an entering air temperature of 15.5 °C								
3. Modulating								
4. SCR Control for electric heating coil								
5. Modulating boxes - cooling								



Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revisions	description	date
A	detail no. du detail	A
B	location drawing no. sur dessin no.	B
C	drawing no. dessin no.	C

project
6TH FLOOR 15 EDDY MECHANICAL SERVICES

15 EDDY STREET
GATINEAU, QC

drawing
MECHANICAL SCHEDULES & DETAILS

Designed By	P. SEGUIN	Conçu par	
Date		(2013/03/31)	
Drawn By	G. HEBB	Dessiné par	
Date		(2013/03/31)	
Reviewed By	P. SEGUIN	Examiné par	
Date		(2013/07/18)	
Approved By	LAN CHI NGUYEN WEEKES	Approuvé par	
Date		(2013/07/18)	
Tender		Soumission	
Project Manager		Administrateur de projets	
Project no.		No. du projet	
		R.059180.005	
Drawing no.		No. du dessin	
		M-8	