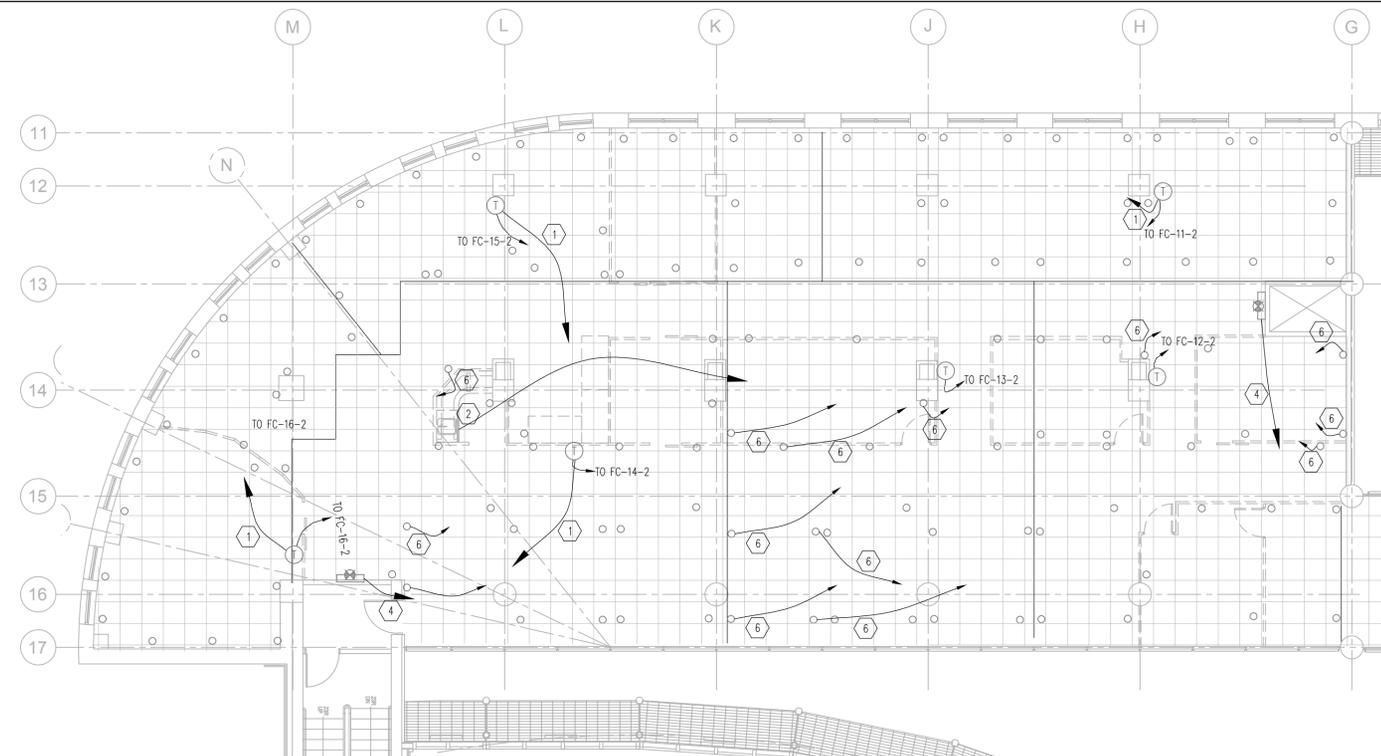


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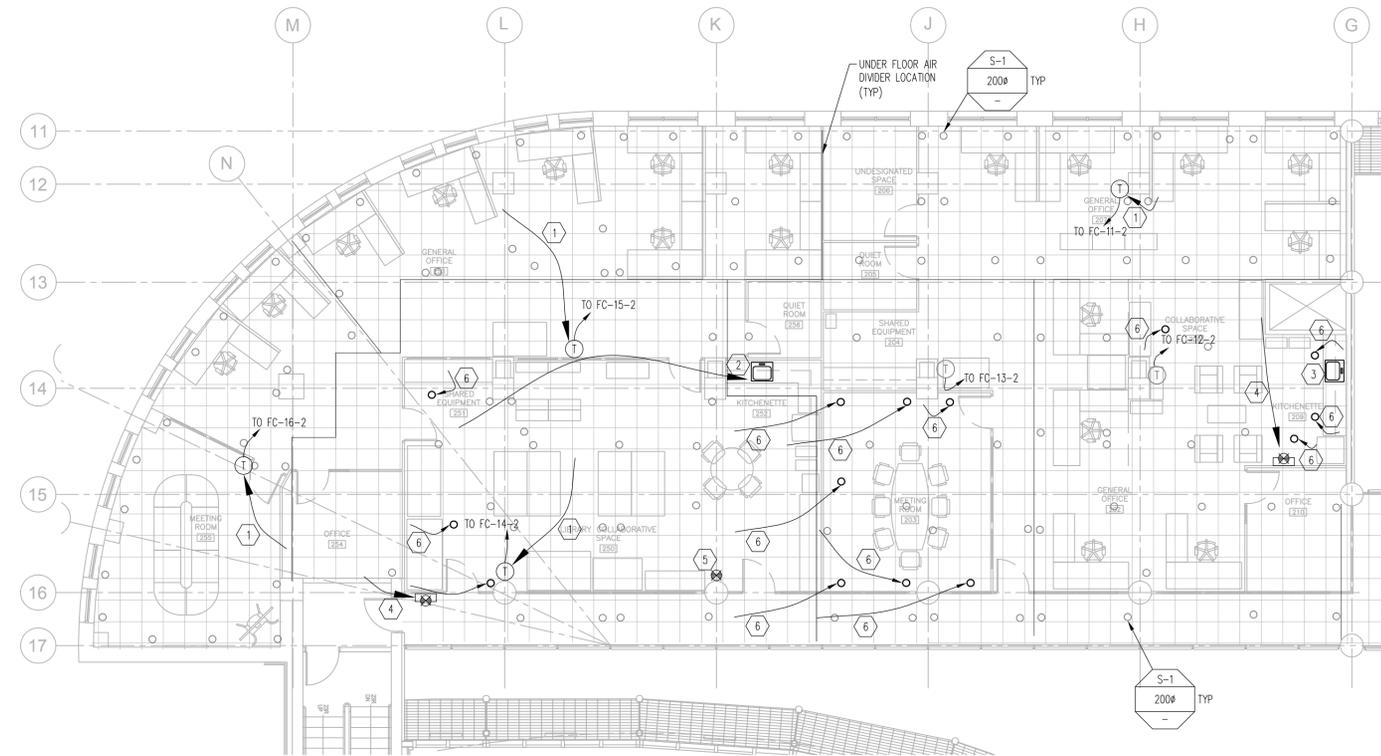
MC 208 # 32018.00.00

WILLIAMS ENGINEERING CANADA

PERMIT TO PRACTICE
WILLIAMS ENGINEERING CANADA INC.
E.M. CARR
10.09.2015
646
NWT/NU Association of Professional Engineers and Geoscientists



1 EXISTING - FLOOR PLAN
SCALE: 1:100



2 NEW - FLOOR PLAN
SCALE: 1:100

KEYNOTES:

- 1 RELOCATE THERMOSTAT.
- 2 RELOCATE KITCHEN SINK AS INDICATED. RELOCATE INSTANTANEOUS WATER HEATER. PROVIDE NEW SUMP PUMP PSK-1, AND NEW PIPING. SEE DETAIL 4 ON M1.
- 3 PROVIDE NEW SINK SK-1, NEW INSTANTANEOUS WATER HEATER DHE-1, NEW SUMP PUMP PSK-1 AND PIPING. SEE DETAIL 4 ON M1.
- 4 RELOCATE FIRE EXTINGUISHER AND CABINET.
- 5 INSTALL NEW 10KG ABC FIRE EXTINGUISHER C/W WALL BRACKET.
- 6 RELOCATE EXISTING FLOOR DIFFUSER AS INDICATED. EXISTING FLOOR DIFFUSERS MAY NOT BE EXACTLY AS SHOWN. PROVIDE UNIT PRICING FOR ADDITIONAL RELOCATIONS.

GENERAL NOTES:

- 1. FAN COIL COOLING FLUID IS WATER @ EWT=8.9°C AND LWT=15.6°C
- 2. HEATING FLUID IS 50% PROP-GLYCOL @ EWT=49°C AND LWT=35°C
- 3. FAN COIL ESP=75Pa
- 4. ALL FAN COILS INSTALLED AND INCLUDED IN TABLES ARE ENGINEERED AIR MODEL HFC-8 WITH CAPACITIES FOR THE AIRFLOWS, COOLING COIL AND HEATING COIL BALANCING VALUES REQUIRED.

FAN COIL AND VAV BALANCING - EXISTING VALUES												
FC#	TYPE	AIR FLOW (L/S)	COOLING COIL			HEATING COIL			VAV BOX			
			TOTAL (KW)	EAT DB/WB (°C)	LAT DB/WB (°C)	WATER FLOW (L/S)	TOTAL (KW)	EAT/LAT (°C)	GLYCOL FLOW (L/S)	VAV SIZE	MIN (L/S)	MAX (L/S)
FC-11-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	47.2	70.8
FC-12-2	J-EXTG	189	1.26	25.0/17.1	19.4/15.1	0.045	2.02	17.5/26.7	0.038	100#	47.2	70.8
FC-13-2	J-EXTG	132	2.05	24.9/17.2	16.6/14.2	0.074	3.95	10.6/26.7	0.074	100#	47.2	70.8
FC-14-2	C-EXTG	227	1.58	25.2/17.1	19.2/14.9	0.057	1.99	18.1/25.6	0.038	100#	56.6	85.0
FC-15-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	47.2	70.8
FC-16-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	37.8	56.6

FAN COIL AND VAV BALANCING SCHEDULE - NEW												
FC#	TYPE	AIR FLOW (L/S)	COOLING COIL			HEATING COIL			VAV BOX			
			TOTAL (KW)	EAT DB/WB (°C)	LAT DB/WB (°C)	WATER FLOW (L/S)	TOTAL (KW)	EAT/LAT (°C)	GLYCOL FLOW (L/S)	VAV SIZE	MIN (L/S)	MAX (L/S)
FC-11-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	47.2	70.8
FC-12-2	J-EXTG	189	1.26	25.0/17.1	19.4/15.1	0.045	2.02	17.5/26.7	0.038	100#	47.2	70.8
FC-13-2*	J-EXTG	189	1.26	25.0/17.1	19.4/15.1	0.045	2.02	17.5/26.7	0.038	100#	38.0*	57.0*
FC-14-2*	C-EXTG	267*	2.99*	26.4/16.3*	16.9/12.7*	0.110*	4.54*	12.2/26.7*	0.086*	100#	66.0*	99.0*
FC-15-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	47.2	70.8
FC-16-2	B-EXTG	342	3.19	25.4/15.9	17.4/12.9	0.115	6.73	9.9/26.7	0.127	100#	37.8	56.6

*FAN COILS AND/OR ASSOCIATED VAV BOXES TO BE REBALANCED TO NEW VALUES WHERE INDICATED

REVISIONS	DESCRIPTION	DATE
0	ISSUED FOR TENDER	2015.09.11

A detail number number du detail
B source drawing no. de dessin no.
C detail on drawing no. detail sur dessin no.

project title: **NRCan and Parks Canada
Fit-Up
2nd Floor Greenstone
Yellowknife, N.W.T.**

drawing title: **MECHANICAL
2ND FLOOR
FLOOR PLAN**

designed by: **DRS** concu par
drawn by: **DRS** dessine par
approved by: **EC** approuve par
PWSC Project Manager: **Administrateur de Projets TPSSC**

scale: **AS NOTED** echelle sheet: **M2** feuille
project no.: **R.067351 & 067352** projet no.: **OF 3**
date: **2015.09.11** date