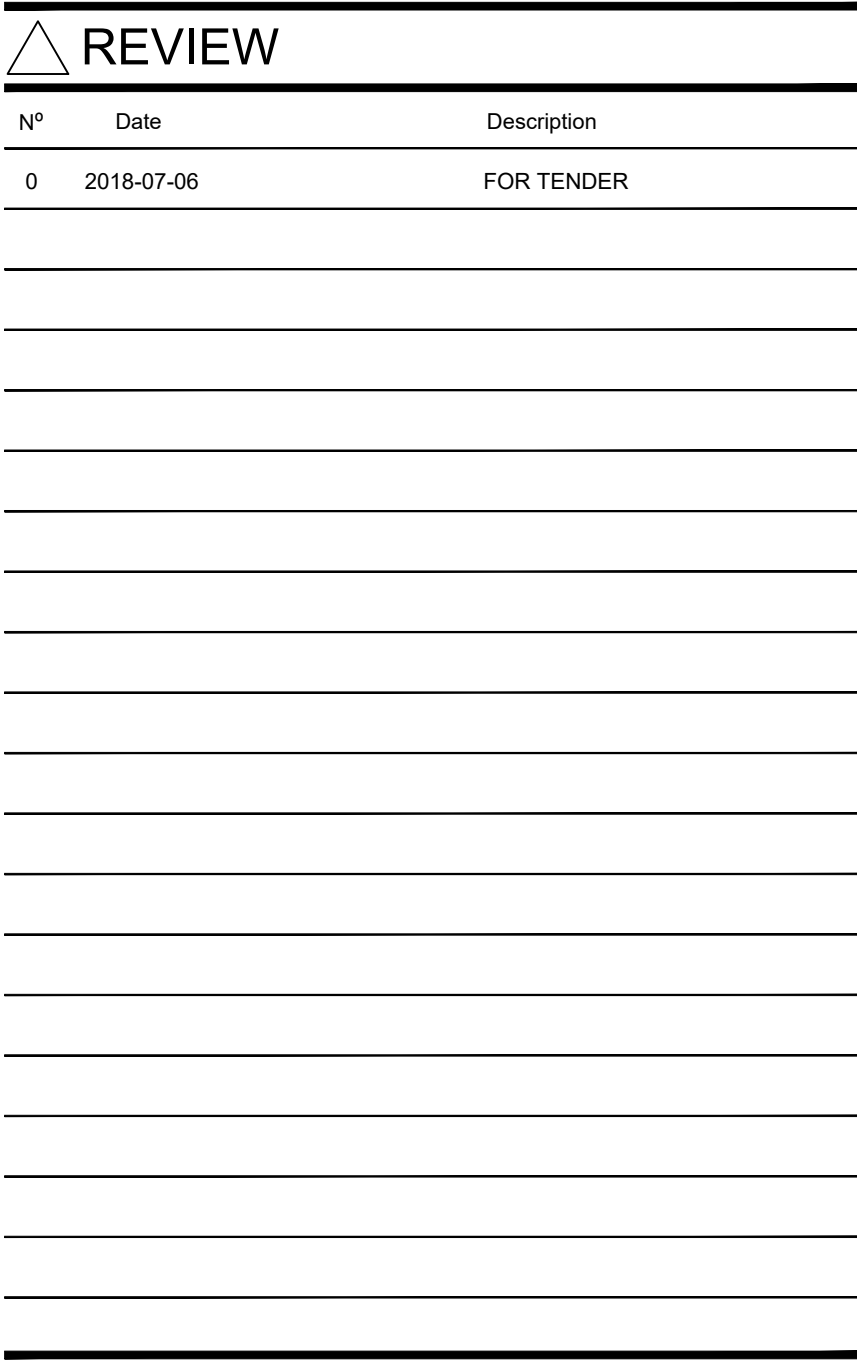


HEATING & COOLING EQUIPMENT SCHEDULE									
FF-1	HOT WATER FORCE FLOW UNIT MODEL F-300-A, FULLY EXPOSED ARRANGEMENT RW-11, WALL MOUNTED, FROM ROSEMEX, CAPACITY 19.3 MBH WATER FLOW 2.24gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW 200 CFM, ELECTRICAL CONNECTION 120V/160 MOTOR 1/15 HP, RPM 650 C/W IN CABINET THERMOSTAT, HINGED FRONT PANEL C/W ACCESSORIES, MOUNTING HEIGHT 4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL, MANUAL RESET TOGGLE SWITCH STARTER WITH OVERLOAD PROTECTION.	EXP-1	FLOOR MOUNTED EXPANSION TANK MODEL OT-40 FROM EXPANFLEX, TANK VOLUME 25gal, ACCEPTANCE 10.5gal, CONNECTION 25Ø.	CD-001-001	MODULATING CONDENSER MODEL 38AUZD08 FROM CARRIER, WITH 1/4" OUNCHED HAIL GUARD AND DIGITAL COMPRESSOR, ELECTRICAL CONNECTION MOP(A): 20, MCA(A): 12/7 @ 600V/3Ø, RISER SIZING TO BE CONFIRMED WITH MANUFACTURER, DISCONNECT BY ELECTRICAL CONTRACTOR, ELECTRICAL CONNECTION BETWEEN INDOOR UNITS AND CONDENSER BY ELECTRICAL CONTRACTOR (LOW VOLTAGE AND NORMAL POWER).				
FF-2	HOT WATER FORCE FLOW UNIT MODEL F-400-A, FULLY EXPOSED ARRANGEMENT RW-11, WALL MOUNTED, FROM ROSEMEX, CAPACITY 24.9 MBH WATER FLOW 2.89gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW 200 CFM, ELECTRICAL CONNECTION 120V/160 MOTOR 1/15 HP, RPM 650 C/W IN CABINET THERMOSTAT, HINGED FRONT PANEL C/W ACCESSORIES, MOUNTING HEIGHT 4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL, MANUAL RESET TOGGLE SWITCH STARTER WITH OVERLOAD PROTECTION.	EV-1 TO EV-10	COOLING EVAPORATOR UNIT FROM LG (OR EQUIVALENT FROM MITSUBISHI OR SAMSUNG), SEE TABLE FOR CAPACITY AND OPTIONS.	CD-002-002 CD-003-002 CD-004-002	MODULATING MULTI SPLIT CONDENSER (DOUBLE UNIT) MODEL ARUN168CTEA FROM LG (OR EQUIVALENT FROM MITSUBISHI), ELECTRICAL CONNECTION MOP(A): 30, MCA(A): 24 @ 675V/3Ø, PIPE CONNECTION (SEE DIAGRAM ON DRAWING M-501), UNIT C/W WIND GUARD AND SNOW COVER, RISER SIZING TO BE CONFIRMED WITH MANUFACTURER, DISCONNECT BY ELECTRICAL CONTRACTOR, ELECTRICAL CONNECTION BETWEEN INDOOR UNITS AND CONDENSER BY ELECTRICAL CONTRACTOR (LOW VOLTAGE AND NORMAL POWER).				
FF-3	HOT WATER FORCE FLOW UNIT MODEL F-400-A, SEMI-RECESSED ARRANGEMENT RW-4 FROM ROSEMEX, CAPACITY 24.9 MBH WATER FLOW 2.89gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW 200 CFM, ELECTRICAL CONNECTION 120V/160 MOTOR 1/15 HP, RPM 650 C/W IN CABINET THERMOSTAT, HINGED FRONT PANEL C/W ACCESSORIES, MOUNTING HEIGHT 4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL, MANUAL RESET TOGGLE SWITCH STARTER WITH OVERLOAD PROTECTION.			CD-005-001	MODULATING MULTI SPLIT CONDENSER (SINGLE UNIT) MODEL LSV090HEV1 FROM LG (OR EQUIVALENT FROM MITSUBISHI), ELECTRICAL CONNECTION MOP(A): 15, MCA: 10 @ 208V/1Ø, PIPE CONNECTION (SEE DIAGRAM ON DRAWING M-501), UNIT C/W WIND GUARD AND SNOW COVER, RISER SIZING TO BE CONFIRMED WITH MANUFACTURER, DISCONNECT BY ELECTRICAL CONTRACTOR, ELECTRICAL CONNECTION BETWEEN INDOOR UNITS AND CONDENSER BY ELECTRICAL CONTRACTOR (LOW VOLTAGE AND NORMAL POWER).				
FF-4	HOT WATER FORCE FLOW UNIT MODEL F-400-A, FULLY RECESSED ARRANGEMENT RW-2, FROM ROSEMEX, CAPACITY 24.9 MBH WATER FLOW 2.89gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW 200 CFM, ELECTRICAL CONNECTION 120V/160 MOTOR 1/15 HP, RPM 650 C/W IN CABINET THERMOSTAT, HINGED FRONT PANEL C/W ACCESSORIES, MOUNTING HEIGHT 4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL, MANUAL RESET TOGGLE SWITCH STARTER WITH OVERLOAD PROTECTION.			TYPE A	HOT WATER WALL FIN MODEL RVT, ELEMENT 44C1, ARRANGEMENT C, 52 FINFEET 3/4" Ø, WALL MOUNTED 14" FROM FINISHED FLOOR, 24" (HIGH) X 8" (DEPTH), SEE DRAWING FOR LENGTH OF ACTIVE SECTIONS, CABINET ARE ALWAYS WALL TO WALL, UNLESS INDICATED OTHERWISE, CAPACITY BASED ON EWT OF 180°F, DELTA T AT BOILER OF 20°F, PROVIDE END CAP, WALL JOINT BUTT JOINT, WALL SUPPORT, CONTROL VALVE AND ACCESSORIES, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.				
HCC-1	HEATING CONVECTOR CABINET MODEL WST, FULLY EXPOSED, WALL MOUNTED, 28" (HIGH) X 10R (DEPTH) X 60" (LENGTH) FROM ROSEMEX, CAPACITY 18.8 MBH WATER FLOW 1.88gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW C/W CONTROL VALVES AND ACCESSORIES, MOUNTING HEIGHT 5-1/4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.			TYPE B	HOT WATER WALL FIN MODEL RVCS, ELEMENT 44C1, ARRANGEMENT B, 52 FINFEET 3/4" Ø, WALL MOUNTED 14" FROM FINISHED FLOOR, 24" (HIGH) X 8" (DEPTH), C/W ADJUSTABLE CABINET FEDESTAL, SEE DRAWING FOR LENGTH OF ACTIVE SECTIONS, CABINET ARE ALWAYS WALL TO WALL, UNLESS INDICATED OTHERWISE, CAPACITY BASED ON EWT OF 180°F, DELTA T AT BOILER OF 20°F, PROVIDE END CAP, WALL JOINT BUTT JOINT, WALL SUPPORT, CONTROL VALVE AND ACCESSORIES, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.				
HCC-2	HEATING CONVECTOR CABINET MODEL WST, FULLY EXPOSED, WALL MOUNTED, 20" (HIGH) X 4R (DEPTH) X 44" (LENGTH) FROM ROSEMEX, CAPACITY 6.02 MBH WATER FLOW 0.6gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW C/W CONTROL VALVES AND ACCESSORIES, MOUNTING HEIGHT 5-1/4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.	BOILER 1 & BOILER 2	EXISTING BOILERS. SEE SPECIFICATIONS FOR DETAILS.						
HCC-3	HEATING CONVECTOR CABINET MODEL WST, FULLY EXPOSED, WALL MOUNTED, 20" (HIGH) X 8R (DEPTH) X 5" (LENGTH) FROM ROSEMEX, CAPACITY 13.25 MBH WATER FLOW 1.325gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW C/W CONTROL VALVES AND ACCESSORIES, MOUNTING HEIGHT 5-1/4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.	BOILER 3	NEW BOILER TO BE SUPPLIED AND INSTALLED BY CONTRACTOR, SEE SPECIFICATIONS FOR DETAILS, BOILER 3 MUST BE IDENTICAL TO BOILERS 1 AND 2.						
HCC-4	HEATING CONVECTOR CABINET MODEL WST, FULLY EXPOSED, WALL MOUNTED, 18" (HIGH) X 4R (DEPTH) X 20" (LENGTH) FROM ROSEMEX, CAPACITY 2.4 MBH WATER FLOW 0.24gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW C/W CONTROL VALVES AND ACCESSORIES, MOUNTING HEIGHT 5-1/4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.	HB-1	5000 FLEX BALANCE PLUS.						
HCC-6	HEATING CONVECTOR CABINET MODEL WST, FULLY EXPOSED, WALL MOUNTED, 20" (HIGH) X 6R (DEPTH) X 44" (LENGTH) FROM ROSEMEX, CAPACITY 8.11 MBH WATER FLOW 0.8gpm, WATER TEMPERATURE OF 180°F AND WATER TEMPERATURE DROP OF 20°F, AIR FLOW C/W CONTROL VALVES AND ACCESSORIES, MOUNTING HEIGHT 5-1/4" OFF THE FINISHED FLOOR, CABINET TO COME PRIME COATED FOR FIELD PAINTING BY GENERAL.								
P-1	SUPPLY AND INSTALL AS SHOWN ON THE DRAWINGS, ARMSTRONG MODEL E17-2 SERIES CIRCULATING PUMP, DESIGNED FOR QUIET OPERATION AND GUARANTEED BY THE MANUFACTURER FOR THE INTENDED APPLICATION, THE PUMP SHALL HAVE A CAPACITY OF 32.5 USgpm, HANDLING (WATER @ 180 °F) AGAINST A TOTAL HEAD OF 19.3 FT, PUMP ELECTRICAL CONNECTION 120V/160, 0.4HP, 1800 RPM, PERMANENTLY LUBRICATED BEARING PUMP, PUMPS START/STOP TO BE CONTROLLED BY INTEGRATED BOILER CONTROLS, ASSOCIATED PUMP STARTS WITH DEMAND OF BOILER THAT IT IS ATTACHED TO.								
P-2									
P-3									
P-4	SUPPLY AND INSTALL AS SHOWN ON THE DRAWINGS, ARMSTRONG MODEL 4380-2D-2 SERIES CIRCULATING PUMP, DESIGNED FOR QUIET OPERATION AND GUARANTEED BY THE MANUFACTURER FOR THE INTENDED APPLICATION, THE PUMP SHALL HAVE A CAPACITY OF 70 USgpm, HANDLING (WATER @ 180 °F) AGAINST A TOTAL HEAD OF 45 FT, PUMP ELECTRICAL CONNECTION 600V/3Ø, 2.0 HP, 1800 RPM, 3" SUCTION GUIDE, PUMPS START/STOP TO BE CONTROLLED BY INTEGRATE BOILER CONTROLS, PUMP STARTS ON HEATING DEMAND AND PUMPS TO ALTERNATE OPERATION, ONLY ONE PUMP WILL WORK AT A TIME.								
P-5									

1- SCHEDULE INDICATES THE SPECIFIC EQUIPMENT USED AS THE STANDARD OF ACCEPTANCE. PROPOSED EQUIVALENTS TO THOSE SPECIFIED MAY BE ACCEPTED BY CONSULTANT.



Architect	 J.L.Richards ENGINEERS • ARCHITECTS • PLANNERS www.jlrichards.ca
Structure	
Seal	
Project	<p>MAISON DE DE LA FRANCOPHONIE D'OTTAWA 2720 RICHMOND ROAD, OTTAWA</p>
Title	<p>MECHANICAL HEATING AND COOLING SCHEDULES & DIAGRAM</p>

Drawing n°	Revision
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Revision