

The Re-Fit of L'Esplanade Laurier for Swing Space - 10th Floor

EAST TOWER, 140 O'CONNOR ST. OTTAWA, ONTARIO

MECHANICAL



DRAWING LIST	
SYMBOL	DESCRIPTION
M001	MECHANICAL DRAWING LIST, LEGENDS & SCHEDULES
M1001	MECHANICAL - 10TH FLOOR - FIRE PROTECTION & PLUMBING - DEMOLITION
M1002	MECHANICAL - 10TH FLOOR - FIRE PROTECTION & PLUMBING - NEW WORK
M1003	MECHANICAL - 10TH FLOOR - HVAC - DEMOLITION
M1004	MECHANICAL - 10TH 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
(E)	DENOTES EXISTING EQUIPMENT
(R)	DENOTES RELOCATED EQUIPMENT
(N)	DENOTES NEW EQUIPMENT

HVAC/CONTROLS LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	RECTANGULAR DUCTWORK
[Symbol]	ROUND DUCTWORK
[Symbol]	ACOUSTICALLY LINED DUCTWORK (RETURN OR SUPPLY)
[Symbol]	ROUND DUCTWORK OFFSET
[Symbol]	RECTANGULAR DUCTWORK OFFSET
[Symbol]	DUCTWORK UP
[Symbol]	DUCTWORK DOWN
[Symbol]	RECTANGULAR TO ROUND TRANSITION
[Symbol]	TAKE-OFF C/W BALANCING DAMPER
[Symbol]	TAKE-OFF
[Symbol]	ROUND TAKE-OFF
[Symbol]	SQUARE SUPPLY DIFFUSER (TYPE)
[Symbol]	LINEAR SUPPLY DIFFUSER (TYPE)
[Symbol]	RETURN GRILLE (RG)
[Symbol]	ACOUSTICALLY LINED TRANSFER DUCT (TD)
[Symbol]	FIRE DAMPER (FD)
[Symbol]	BALANCE DAMPER (BD)
[Symbol]	FLEXIBLE CONNECTION
[Symbol]	TURNING VANES
[Symbol]	VARIABLE AIR VOLUME BOX (VAV)
[Symbol]	INLINE CABINET FAN (TYPE)
[Symbol]	FAN POWERED TERMINAL UNIT (FPB)
[Symbol]	PNEUMATIC TUBING
[Symbol]	CONTROL WIRING
[Symbol]	THERMOSTAT
[Symbol]	TEMPERATURE SENSOR
[Symbol]	SPEED CONTROLLER

PLUMBING LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	PIPING BELOW GRADE/SLAB
[Symbol]	DOMESTIC COLD WATER PIPING
[Symbol]	DOMESTIC HOT WATER PIPING
[Symbol]	VENT PIPING
[Symbol]	SANITARY PIPING
[Symbol]	CONDENSATE DRAIN
[Symbol]	CHILLED WATER SUPPLY
[Symbol]	CHILLED WATER RETURN
[Symbol]	CONDENSER WATER SUPPLY PIPING
[Symbol]	CONDENSER WATER RETURN PIPING
[Symbol]	PIPING OFFSET
[Symbol]	BRANCH PIPING DOWN
[Symbol]	PIPING DOWN
[Symbol]	PIPING UP
[Symbol]	REDUCER
[Symbol]	CAP
[Symbol]	P-TRAP
[Symbol]	CLEAN OUT
[Symbol]	ISOLATION VALVES
[Symbol]	PRESSURE REDUCING VALVE (PRV)
[Symbol]	PRESSURE GAUGE
[Symbol]	CONDENSATE PUMP (CP)
[Symbol]	2-WAY CONTROL VALVE (DOC)

FIRE PROTECTION LEGEND	
SYMBOL	DESCRIPTION
[Symbol]	SEMI-RECESSED SPRINKLER
[Symbol]	CONCEALED SPRINKLER
[Symbol]	UPRIGHT SPRINKLER
[Symbol]	WIRE CAGED SPRINKLER
[Symbol]	FIRE EXTINGUISHER C/W MOUNTING BRACKET
[Symbol]	FIRE HOSE CABINET
[Symbol]	FIRE STANDPIPE
[Symbol]	SPRINKLER PIPE

FIXTURE CONNECTION SCHEDULE				
FIXTURE	DOMESTIC COLD WATER	DOMESTIC HOT WATER	SANITARY	COMMENTS
S1	13ø	13ø	4ø	BASIN: TYPE 302 STAINLESS STEEL, SELF-RIMMING, DOUBLE COMPARTMENT, COUNTERTOP MOUNT SINK W/ BACKEDGE, SATIN FINISH RIM AND BOWLS, UNDERCOATED FOR CONDENSATION AND NOISE REDUCTION, NOMINAL SIZE: 845mm (33-1/4") WIDE x 559mm (22") FRONT TO BACK x 203mm (8") DEEP, 40 mm (1-1/2") WASTE ASSEMBLY. TRIM: SINGLE LEVER HANDLE FAUCET, CHROME PLATED, CENTER HOLE ONLY, LEAD FREE BRONZE CONSTRUCTION, SINGLE HOLE, CERAMIC DISC VALVE, 5.7 LPM (1.5 GPM) ADRATING OUTLET, 254 mm (10") PROJECTION SWING SPOUT W/ LEVER HANDLE, 13 mm (1/2") INLETS. THERMOSTATIC MIXING VALVE: ADJUSTING DIAL & 10 mm (3/8") INLET/OUTLET COMPRESSION FITTINGS, HIGH TEMPERATURE LIMIT STOP, SHUT-OFF WITH AUTOMATIC RESET WHEN TEMPERATURE EXCEEDS 48.8°C (120°F). ACCESSORIES: 32 mm (1-1/4") CHROME PLATED HEAVY CAST BRASS P-TRAP W/ CLEANOUT, CHROME PLATED FINISH POLISHED BRASS 1/4 TURN BALL VALVE ANGLE STOPS W/ V.P. LOOSE KEY HANDLES, ESCUTCHEON AND FLEXIBLE RISERS

NOTES:
1. COORDINATE EXACT PIPING LOCATION ON SITE. FIXTURE MOUNTING HEIGHTS AS PER ARCHITECTURAL DRAWINGS.
2. VENT TO MEET OBC REQUIREMENTS; VENTING THROUGH SLOPED ROOFS NOT PERMITTED.
3. ALL PIPEWORK TO BE INSTALLED NEATLY AND COORDINATED WITH ALL OTHER TRADES.
4. CONTRACTOR IS RESPONSIBLE TO ENSURE INSTALLATION OF FIXTURES MEETS CSA-B651 WHERE BARRIER FREE IS REQUIRED.

FAN POWERED TERMINAL UNIT SCHEDULE											
UNIT NO.	ROOM SERVED	MAX. PRIMARY AIR (L/s)	MIN. PRIMARY AIR (L/s)	TOTAL SUPPLY AIR (L/s)	INLET DIAMETER (mm)	FILTERS	ELECTRICAL DATA			CONTROL TYPE (PNEU/EL/DOC)	REMARKS
							MOTOR SIZE (HP)	V/PH/Hz	FLA		
FPB10.1	BOARDROOM 10-003	155	0	285	200ø	25mm	1/3	120/1/60	3.5	DOC	1.2,3
FPB10.2	BOARDROOM 10-004	155	0	285	200ø	25mm	1/3	120/1/60	3.5	DOC	1.2,3
FPB10.3	MEETING ROOM 10-015	100	0	190	200ø	25mm	1/3	120/1/60	3.5	DOC	1.2,3

NOTES:
1. FOR DETAILS REFER TO SPECIFICATIONS.
2. ALL FPB SHALL HAVE A SINGLE POINT POWER SUPPLY.
3. UNITS TO BE PROVIDED WITH DISCONNECT SWITCH, ECM MOTOR, INLET & DISCHARGE SILENCER, HANGER BRACKETS & RETURN FILTER ASSEMBLY

VAV TERMINAL UNIT SCHEDULE					
UNIT NO.	INLET mmø	OUTLET mm x mm	MAXIMUM AIRFLOW L/s	MINIMUM AIRFLOW L/s	REMARKS
6	150	300 x 200	TO MATCH DIFF. TOTAL	20% OF MAX.	VAV CONTROLLER TO BE SUPPLIED & INSTALLED BY DIV.25
8	200	300 x 250	TO MATCH DIFF. TOTAL	20% OF MAX.	VAV CONTROLLER TO BE SUPPLIED & INSTALLED BY DIV.25
10	250	350 x 300	TO MATCH DIFF. TOTAL	20% OF MAX.	VAV CONTROLLER TO BE SUPPLIED & INSTALLED BY DIV.25

NOTES:
1. FOR DETAILS REFER TO SPECIFICATIONS.
2. ADJUST FLOW RATES AT ALL DIFFUSERS AS PER DRAWING NOTES. MAXIMUM TO MATCH TOTAL DIFFUSER FLOWS, MINIMUM TO 20% OF MAXIMUM.

L'ENTREPRENEUR DEVRA VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER ET AVISER SANS DÉLAI LE REPRÉSENTANT DU MINISTÈRE DE TOUTE ANOMALIE.
Contractor to verify all dimensions and conditions on site and immediately notify the departmental representative of all discrepancies.

revisions	description	date
6		
5	ISSUED FOR TENDER	2019/07/12
4	ISSUED FOR TENDER	2019/03/19
3	ISSUED FOR FINAL REVIEW	2019/03/08
2	ISSUED FOR 99% REVIEW	2018/08/29
1	ISSUED FOR DESIGN DEVELOPMENT	2018/09/30

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

project / projet
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140 O'CONNOR ST., OTTAWA, ONTARIO

drawing / dessin
MECHANICAL
DRAWING LIST, LEGENDS & SCHEDULES

Designed By	C.L. MAR/17	Conçu par	
Date	MAR/17	(yyyy/mm/dd)	
Drawn By	C.L. MAR/17	Dessiné par	
Date	MAR/17	(yyyy/mm/dd)	
Reviewed By	E.P. MAR/17	Examiné par	
Date	MAR/17	(yyyy/mm/dd)	
Approved By	E.P. MAR/17	Approuvé par	
Date	MAR/17	(yyyy/mm/dd)	
Tender		Soumission	
Project Manager	AHMAD KHODR	Administrateur de projets	
Project no.		No. du projet	
	R.081640.020.		
Drawing no.		No. du dessin	
	M001		