



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving - PWGSC / Réception des soumissions -
TPSGC

11 LaurierSt./ 11, rue Laurier

Place du Portage, Phase III

Core 0B2 / Noyau 0B2

Gatineau

Québec

K1A 0S5

Bid Fax: (819) 997-9776

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise
indicated, all other terms and conditions of the Solicitation
remain the same.

Ce document est par la présente révisé; sauf indication contraire,
les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

Vendor/Firm Name and Address

Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution

Infrastructure Maintenance and Solution Services
Division (FK)

L'Esplanade Laurier,

East Tower 4th Floor

L'Esplanade Laurier,

Tour est 4e étage

140 O'Connor, Street

Ottawa

Ontario

K1A 0R5

Title - Sujet Hvac	
Solicitation No. - N° de l'invitation EJ196-212438/A	Amendment No. - N° modif. 007
Client Reference No. - N° de référence du client 20212438	Date 2021-06-28
GETS Reference No. - N° de référence de SEAG PW-\$\$FK-301-79858	
File No. - N° de dossier fk301.EJ196-212438	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM Eastern Daylight Saving Time EDT on - le 2021-07-13 Heure Avancée de l'Est HAE	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ruest, Stéfan	Buyer Id - Id de l'acheteur fk301
Telephone No. - N° de téléphone (613) 295-7625 ()	FAX No. - N° de FAX (819) 956-3600
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:	

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

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FK301
CCC No./N° CCC - FMS No./N° VME

Solicitation Amendment 007

This Solicitation Amendment is raised to update the RFP with the correct equipment list.

At 1.2.1 of the solicitation, PLEASE REMOVE

Government Building

2086 Walkley Road, Ottawa, Ontario

At Part 3 of the solicitation, **PLEASE DELETE** in its ENTIRIETY pricing schedule 1 and replace with:

Building #1A: Tilley Compound, 719 Heron Road, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Tilley Building Basement Mech Room C010	Multi-stack Chiller Ch-01 560 Tons	MS70XC1 W1-410A	AB-01-091	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	Multi-stack Chiller Ch-02 490 Tons	MS070XC 2C1W2AA -410A	AB-01-091	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	Multi-stack Chiller/Heat Recovery Ch-03 70 Tons	MS070XC 2C1W2AA -410A	AB-01-083	\$	\$	\$	\$	\$
2	Tilley Building	Cooling Tower	N/A	N/A	\$	\$	\$	\$	\$
2	Tilley Building	Cooling Tower Existing	CD-B-4 42w00088	N/A	\$	\$	\$	\$	\$
1	Tilley Building Mech C313	TACO Expansion Tank 03	CBX300-125	234716	\$	\$	\$	\$	\$
1	Tilley Building Mech C313	TACO Expansion Tank 02	CBX300-125	234715	\$	\$	\$	\$	\$
1	Tilley Building Mech (C313)	TACO Expansion Tank 01	CBX300-125	234714	\$	\$	\$	\$	\$
1	Tilley Building Mech C313	TACO Expansion Tank 04	CBX300-125	234717	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

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007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Tilley Building Basement Mech Room C010	TACO Deaerator As-01	AC12	354367	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 09 Glycol	F18013	101380 7880	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 08 Glycol	F18013	101380 7870	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 06 Main CW	F111506	101380 7873	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 04 For Chiller #3	KV3066	203788 3	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 07 Glycol	F18013	101380 7871	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 05 Main CW	F11506	101390 7672	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 03 For Chiller #3	KV3066	203788 3	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 01 HW	F11506	203788 3	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	TACO Pump 02 HW	F11506	203788 3	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
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EJ196-212438

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007
File No. - N° du dossier
FK301. EJ196-212438

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1	Tilley Basement Mech Room C010	Chromalox Electric Boiler 480Kw	N/A	5.908.7 32	\$	\$	\$	\$	\$
1	Tilley Building Basement Mech Room C010	Honeywell Expansion Module Gas Detection System	301EM	N/A	\$	\$	\$	\$	\$
1	Tilley Building 2.5 Flr C313	Spray Pump Darling 25- 400-023	N/A	N/A	\$	\$	\$	\$	\$
1	Tilley Building 2.5 Flr C313	Spray Pump Darling 25- 400-024	N/A	N/A	\$	\$	\$	\$	\$
1	Tilley Building 2.5 Flr C313	Spray Pump Darling 25- 400-025	N/A	N/A	\$	\$	\$	\$	\$
1	Tilley Building 2.5 Flr Rm. C313	Spray Pump Darling 25- 400-026	N/A	N/A	\$	\$	\$	\$	\$
1	Tilley Building 2.5 Flr Rm.C313	Spray Pump Darling 25- 400-027	N/A	N/A	\$	\$	\$	\$	\$
1	Tilley Building C112	Air Compressor #1 Kellogg American	452TV	V9E023 7PIZM	\$	\$	\$	\$	\$
1	Tilley Building C112	Air Compressor #2 Kellogg American	452TV	V9E023 8PIZM	\$	\$	\$	\$	\$
1	Tilley Building C112b	Air Compressor Kellogg American	452TV	02I1010 PIZ	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-004-L02	ARUB168 BTE4AW GBLUS	808KC UK0AR 66	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-001- L01	ARUB169 BTE4AW GBLUS	807KC PY0ZT7 6	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-005-L02	ARUB169 BTE4AW GBLUS	807KC HE0ZT 77	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-002-L01	ARUB121 BTE4AW GBLUS	806KC RN16Q 78	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
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007
File No. - N° du dossier
FK301. EJ196-212438

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FK301
CCC No./N° CCC - FMS No./N° VME

1	Annex E Tilley Compound	LG Multi V Heat Pump CD-003-L01	ARUB168 BTE4AW GBLUS	806KC OX16N 24	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-006-L02	ARUB16B TE4	807KC YQ0ZT 78	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-007-L02	ARUB168 BTE4AW GBLUS	705KC EA1CD 44	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	Mitsubishi Electric CD- ELECT.R	PU42EK7 2 mr.slim	Missing	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG (JAL Inverter) CD-ELEV	LSU120H SV5	802KAZ K0LA09	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG CD-012-L01	LSU180H SV4	709KAA E04768	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LG CD-013L01	LSU180H SV4	709KA WQ049 13	\$	\$	\$	\$	\$
1	Annex E 1 st Floor	Water Fountain ELKAY	LZWSR- _1D	190135 176	\$	\$	\$	\$	\$
1	Annex E 2 nd Floor	Water Fountain ELKAY	LZWSR- _1D	190135 181	\$	\$	\$	\$	\$
1	Annex E Janitor Rm. 1 st Floor	Humidifier neptronic	SF SKE4- N04M-600	18- 333541 8	\$	\$	\$	\$	\$
1	Annex E Janitor Rm. 1 st Floor	Humidifier neptronic	SF SKE4- N04M-600	18- 333542 0	\$	\$	\$	\$	\$
1	Annex E Janitor Rm. 2 nd Floor	Humidifier neptronic	SF SKE4- N04M-600	18- 333541 9	\$	\$	\$	\$	\$
1	Annex E Janitor Rm. 2 nd Floor	Humidifier neptronic	SF SKE4- N04M-600	18- 333542 1	\$	\$	\$	\$	\$
1	Annex E Outside	LIEBERT VERTIV CondensorC D-011-L01	MCM040E 1YDK363	Y18GA Y0032	\$	\$	\$	\$	\$
1	Annex E Rm.120	Liebert CRAC unit 4	CR035RA 1C7U515	Y18GB M004	\$	\$	\$	\$	\$
1	Annex E Outside	LIEBERT VERTIV CD- 008-L01	MCM040E 1YDK363	Y18GA Y0031	\$	\$	\$	\$	\$
1	Annex E Rm.120	Liebert CRAC unit	CR035RA 1C7U515	Y18GB M0005	\$	\$	\$	\$	\$
1	Annex E Tilley Compound	LIEBERT VERTIV CD- 010-L01	MCM040E 1YDK363	Y18GA Y0030	\$	\$	\$	\$	\$
1	Annex E Rm.120	Liebert CRAC unit	CR035RA 1C7U515	Y18GB M0009	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
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007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
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CCC No./N° CCC - FMS No./N° VME

1	Annex E Tilley Compound	LIEBERT VERTIV CD- 009-L01	MCM040E 1YDK363	Y18GA Y0004	\$	\$	\$	\$	\$
1	Annex E Rm.120	Liebert CRAC unit	CR035RA 1C7U515	Y18GB M0010	\$	\$	\$	\$	\$
1	Annex E E207 MW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 03	\$	\$	\$	\$	\$
1	Annex E E205 WW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 04	\$	\$	\$	\$	\$
1	Annex E E111 MW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 06	\$	\$	\$	\$	\$
1	Annex E E109 WW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 13	\$	\$	\$	\$	\$
Sub-Total 1A					\$	\$	\$	\$	\$
TOTAL 1A					\$				

Building 1B: Drake Compound, 719 Heron Road, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-1 43w00104	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-2 48w00049	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-3 48w00069	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-4 43w00108	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-5 43w00116	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-6 47w00062	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-7 43w00110	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-8 43w00119	PUHY- 250TE M-A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Annex F Drake Compound	Mitsubishi Electric	CD-A-9 4zw00087	PUHY- 250TE M-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric			\$	\$	\$	\$	\$
1	Annex F Drake Compound	Liebert	DCSL083- B	0520C7 7559	\$	\$	\$	\$	\$
2	Drake Guard Hut	American Standard Inc. Trane	TWE060A 300EL	5354KK TBD	\$	\$	\$	\$	\$
1	Annex F Elev.Rm. Drake Compound	Mitsubishi	PK12FK3 (Indoor) PU12EK (Outdoor)	54A001 70C	\$	\$	\$	\$	\$
1	Annex F Ground Floor WW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 09	\$	\$	\$	\$	\$
1	Annex F Ground Floor MW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 01	\$	\$	\$	\$	\$
1	Annex F Second Floor WW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 10	\$	\$	\$	\$	\$
1	Annex F Second Floor WW	Mitsubishi Lossnay ERV	LGH- 200RX3- CAN	000000 02	\$	\$	\$	\$	\$
Sub-Total 1B					\$	\$	\$	\$	\$
TOTAL 1B					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

BUILDING 2: 2455 Don Reid Drive, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Main Mech Room	Arcti-Chill (3) PACVMV060 00D 5-MM & (3) FC160	S015480-01 TP015052 00	A00102 3809	\$	\$	\$	\$	\$
1	Main Mech Room	Glycol System Pump and Tank	N/A	N/A	\$	\$	\$	\$	\$
1	Main Mech Rm AHU#2	Ventrol Custom	ITF 1-2	SO1548 0-02	\$	\$	\$	\$	\$
1	Main Mech Rm AHU#1	Ventrol Custom	ITF 1-2	SO1548 0-02	\$	\$	\$	\$	\$
1	Main Mech Rm	Master ERV - 1	Reverse flow EB-9000-Custom	N/A	\$	\$	\$	\$	\$
9	Shop Floor, Perimeter	Lennox Furnaces	G51MP Series G51MP60 D13508	5910B0 7045 TO 5910B0 7047	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-7 43w00110	PUHY-250TEM-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-8 43w00119	PUHY-250TEM-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-9 4zw00087	PUHY-250TEM-A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Mitsubishi Electric	N/A	N/A	\$	\$	\$	\$	\$
1	Annex F Drake Compound	Liebert	N/A	N/A	\$	\$	\$	\$	\$
2	Drake Guard Hut	Condensing Units	N/A	N/A	\$	\$	\$	\$	\$
6	Throughout the printing plant	Johnson Controls Fan coil Units	1.1, 1.2, 1.3, 1.4, 1.4, 2.1, 2.2	N/A	\$	\$	\$	\$	\$
2	Print Shop Floor	Envior Air Dust collectors	500/50	N/A	\$	\$	\$	\$	\$
8	Throughout the plant	Greenheck Exhaust Fans	#5=QEI-20-1 #8=CSP-A1050	N/A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

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007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
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CCC No./N° CCC - FMS No./N° VME

1	Shipping Loading Dock	Carbon Monoxide Detector	AMC-98AC Electro-chemical NO2 Sensor	11XN-6A0055	\$	\$	\$	\$	\$
2	Shipping Loading Dock	Gas-fired Unit Heaters	Lennox	N/A	\$	\$	\$	\$	\$
1	Office outside plant area	Gas Fired Domestic Hot Water	N/A	N/A	\$	\$	\$	\$	\$
2	Plant floor Room 143	Kaeser Compressor system	ADS – 25 Sigma	1017	\$	\$	\$	\$	\$
1	Dryer System	Kaeser Service Code KAD 115 AA-150-L1-1005-F	KAD – 115 –G4	142042 9-1	\$	\$	\$	\$	\$
1	Storage Tank	Kaeser	RN# L4036.5C	N/A	\$	\$	\$	\$	\$
2	Building	Drinking Fountains	N/A	N/A	\$	\$	\$	\$	\$
Sub-Total 2					\$	\$	\$	\$	\$
TOTAL 2					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

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FK301. EJ196-212438

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CCC No./N° CCC - FMS No./N° VME

Building 3: Victoria Building, 140 Wellington Street, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	S-Bsmt: Near Fire Pumps	Air Compres sor #1	N/A	N/A	\$	\$	\$	\$	\$
1	S-Bsmt: Near Fire Pumps	Air Compres sor #2	N/A	N/A	\$	\$	\$	\$	\$
1	S-Bsmt: under suspended ceiling	Cooling Unit	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Men's locker room	AHU #1	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Men's locker room	AHU #2	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Room 015	AHU #3	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Room 015	AHU #4	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Room 023	Exhaust Fan	N/A	N/A	\$	\$	\$	\$	\$
1	Bsmt: Garbage Room (Prom.)	Lockers Exhaust Fan	N/A	N/A	\$	\$	\$	\$	\$
1	Room 138	AHU #5	N/A	N/A	\$	\$	\$	\$	\$
1	Room 202	AC unit	N/A	N/A	\$	\$	\$	\$	\$
1	Room 238 (left)	AC unit	Canair HE062- 1	ZH04286 4	\$	\$	\$	\$	\$
1	Room 238 (right)	AC unit	Canair HE062- 1	YE02585 6	\$	\$	\$	\$	\$
1	Room 200	AC unit	Canair CP65W V5- MTE	MTE909 931	\$	\$	\$	\$	\$
1	Room 301	AC unit	Canair HE062- 5	YG02901 5	\$	\$	\$	\$	\$
1	Room 338 (left)	AC unit	Canair EM062- 5VTC	CC08375 1	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
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1	Room 338 (right)	AC unit	Canair EM060-5VTC	EB001579	\$	\$	\$	\$	\$
1	Room 400	AC unit	Canair EM-060-3VTC-SFC	HE015743	\$	\$	\$	\$	\$
1	Room 438	AC unit	Canair 50BT-012-120	2294V90406	\$	\$	\$	\$	\$
1	Room 500a	AC unit	Canair HE062-5	YF027390	\$	\$	\$	\$	\$
1	Room 538	AC unit	Canair HE062-5VTC	AJ058862	\$	\$	\$	\$	\$
1	Room 524	AC unit	Canair HE062-5	YG028989	\$	\$	\$	\$	\$
1	Room 522	AC unit	Canair HE062-5VTC	AA048632	\$	\$	\$	\$	\$
2	Room 601	AHU #7	Williams AV030 W2B80	290941	\$	\$	\$	\$	\$
1	Room 638	AC unit	Canair N/A	1590F11724	\$	\$	\$	\$	\$
1	Room 604	AC unit	N/A	N/A	\$	\$	\$	\$	\$
1	Room 706	AC unit	Trane WPVD 10031 M	W97A00172	\$	\$	\$	\$	\$
1	Room 706 (ceiling)	AC unit			\$	\$	\$	\$	\$
1	Room 700	AHU 700	Trane SWUB-B755-F	S89E36252	\$	\$	\$	\$	\$
1	Room 702	AC unit	Trane SWUB-C105-D	S89D23557	\$	\$	\$	\$	\$
1	Room 838	AC unit	Trane SWUB-C105-D	S90G50234	\$	\$	\$	\$	\$
1	Front of elevator	AC unit	York E60W-58B	EM-024694Y	\$	\$	\$	\$	\$
1	Room 938	AC unit	Canair CP45W H3	MTA910319	\$	\$	\$	\$	\$
1	Room 906	AC unit	N/A	N/A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
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EJ196-212438

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007
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FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Room 900	AC unit	N/A	N/A	\$	\$	\$	\$	\$
1	Diesel room	Fresh air supply fan	N/A	N/A	\$	\$	\$	\$	\$
1	Diesel room	MWR Exhaust Fan	N/A	N/A	\$	\$	\$	\$	\$
1	Diesel room	Washroom Exhaust Fan	N/A	N/A	\$	\$	\$	\$	\$
1	Roof	MAU # 6	N/A	N/A	\$	\$	\$	\$	\$
1	11	Fresh Air Supply fan	N/A	N/A	\$	\$	\$	\$	\$
Sub-Total 3					\$	\$	\$	\$	\$
TOTAL 3					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Building 4: 455 BLVD DE LA CARRIÈRE, GATINEAU, QC									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Penthouse Mech	Carrier Chiller	19XR-2022266B GH65)	3211Q210 84	\$	\$	\$	\$	\$
1	Penthouse Mech	Carrier Chiller	19XR-2022266B GH65)	3211Q210 85	\$	\$	\$	\$	\$
1	Penthouse Mech	Carrier Chiller	30XW-2501-BSCB	3211Q195 06	\$	\$	\$	\$	\$
1	Penthouse Mech	Carrier Chiller	30HXC106 RZU 171KA	3711Q195 39	\$	\$	\$	\$	\$
1	Penthouse Mech	Carrier Chiller	30XB1501 ---G8WB1	3711Q195 39	\$	\$	\$	\$	\$
3	Cooling Towers	BAC	N/A	N/A	\$	\$	\$	\$	\$
2	Cooling Towers	BAC	N/A	N/A	\$	\$	\$	\$	\$
1	Roof 13th	Ref Plus	FND243C-8	D2011090 459	\$	\$	\$	\$	\$
1	Roof 13th	Ref Plus	FND243C-8	D2011090 460	\$	\$	\$	\$	\$
1	Roof 14th	Kool-Air	FEVB-24412-8	17011865 9	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	KV4013A-1050E2L	2037839	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	KV4011-1100E2L	2037839	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	N/A	2037839	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	N/A	2037839	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	N/A	N/A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

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007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Penthouse Mechanical Room	Taco	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5011- 1120E2L	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5013- 1130E2M	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5013- 1130E2M	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5011- 1120E2L	2037181	\$	\$	\$	\$	\$
1	Boiler Room	Taco	KV3007- 750E2J	2037181	\$	\$	\$	\$	\$
1	Boiler Room	Taco	KV3007- 750E2J	2037181	\$	\$	\$	\$	\$
1	Boiler Room	Taco	KV3007- 750E2J	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5011- 1010E2K	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5011- 1010E2K	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI4007- 730E2G	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI4007- 730E2G	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI4007- 650F2F	2037181	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Penthouse Mechanical Room	Taco	FI6013-1150E2P	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI6013-1150E2P	2037181	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Taco	FI5011-1000E2K	2037181	\$	\$	\$	\$	\$
7	Ground Floor	LEIBERT CL1-020-0RC to CL7-020-0RC	CW114DC 1AT Server Room	N/A	\$	\$	\$	\$	\$
2	11 TH Floor	LEIBERT CL1-020-011 to CL2-020-011	BU102C-BDES	N/A	\$	\$	\$	\$	\$
2	7 TH Floor	LEIBERT CL1-020-007 to CL2-020-007	CW041UC SBT	N/A	\$	\$	\$	\$	\$
2	Ground Floor PBX	LEIBERT CL8-020-0RC to CL9-020-0RC	MMD8TCT BHELEF	N/A	\$	\$	\$	\$	\$
2	UPS Room	LEIBERT CL1-020-081 and CL2-020-081	CW051UC VB15149	N12B141 01012	\$	\$	\$	\$	\$
2	Penthouse Mech	Campus Hydronic Ltd Camus Dynaforce Series 20-075-002 20-075-003	DRMH-3000-MSI	01111251 3 01111251 2	\$	\$	\$	\$	\$
1	Penthouse Mech	Caloritech Engineered Electric Heat 20-075-001	VWHF181 50-01/VWHF-30-810	W050574-01	\$	\$	\$	\$	\$
1	Ground Floor Loading Dock	AO Smith Cyclone MXI	BTH-400A300	20031178 52350	\$	\$	\$	\$	\$
1	Basement garage car ramp	Thermo 2000	DTH60078	2011-052	\$	\$	\$	\$	\$
1	14th Floor Mechanical Room	Bousquet	HDGI150S SI4HTMW O	31472-110829	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Mechanical Room B105	Bousquet	SDM200R 1TTHDLM N1	31235-110510	\$	\$	\$	\$	\$
1	Boiler Room	Mueller	AT40-2B80	1106936-02	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Mueller	ATX75B-150	1113866-01	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Mueller	AT40LB-150	1113866-02	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Mueller	AT120LB-150	1106936-01	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Mueller	AI40LB-80	1106936-03	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Extrol	R52332C	223947	\$	\$	\$	\$	\$
1	Boiler Room	Extrol	AX240V	209982	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Extrol	AX80V	223173	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Calefactio	HGTEV-80	N/A	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Extrol	AX150	233314	\$	\$	\$	\$	\$
1	Ground Floor Room 122	Wessels	TTA12	207796	\$	\$	\$	\$	\$
1	Garage Ramp Cage	Extrol	SX-40V	1322104	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Extrol	AX600	231949	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Dristeem	GTS04-800	1201151-01-02	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Dristeem	N/A	N/A	\$	\$	\$	\$	\$
26	Building	Drinking Fountains	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mech	Schneider	VA2-001-0AP	05 472 008	\$	\$	\$	\$	\$
1	Boiler Room	Schneider	P02-CBT-0AP	N/A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Penthouse Mech Room	Schneider	VA1-001-0AP	05 472 007	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	P01-ERS-0AP	10 472 002	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	P02-ERS-0AP	10 472 001	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	RE2-001-0AP	05 472 012	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	RE1-001-0AP	05 472 014	\$	\$	\$	\$	\$
1	11th Floor Freight Mechanical	Schneider	CL1-006-011	05 200 082	\$	\$	\$	\$	\$
1	10th Floor Freight Mechanical	Schneider	CL1-006-010	05 200 081	\$	\$	\$	\$	\$
1	9th Floor Freight Mechanical	Schneider	CL1-006-009	05 200 080	\$	\$	\$	\$	\$
1	8th Floor Freight Mechanical	Schneider	CL1-006-008	05 200 079	\$	\$	\$	\$	\$
1	7th Floor Freight Mechanical	Schneider	CL1-006-007	05 200 078	\$	\$	\$	\$	\$
1	6th Floor Freight Mechanical	Schneider	CL1-006-006	05 200 077	\$	\$	\$	\$	\$
1	5th Floor Freight Mechanical	Schneider	CL1-006-005	05 200 076	\$	\$	\$	\$	\$
1	4th Floor Freight Mechanical	Schneider	CL1-006-004	05 200 075	\$	\$	\$	\$	\$
1	3rd Floor Freight Mechanical	Schneider	CL1-006-003	05 472 005	\$	\$	\$	\$	\$
1	2nd Floor Freight Mechanical	Schneider	CL1-006-002	N/A	\$	\$	\$	\$	\$
1	12th Floor Freight Mechanical	Schneider	CL1-006-012	05 200 083	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Ground Floor Room 122	Schneider	CL1-011-0AP	05 200 085	\$	\$	\$	\$	\$
1	Ground Floor Room 124	Schneider	CL1-009-0RC	05 200 084	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	TR1-ETR-0AP	05 472 010	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	TR2-ETR-0AP	05 472 011	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	VE2-001-0AP	05 472 009	\$	\$	\$	\$	\$
1	Penthouse Mech Room	Schneider	VE1-001-0AP	05 472 006	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Schneider	P01-EGL-0AP	05 472 004	\$	\$	\$	\$	\$
1	Boiler Room	Schneider	P01-CBT-0AP	05 472 03	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Schneider	P02-EGL-0AP	05 472 015	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Danfoss	174Z3359	745104Y1 12	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Danfoss	17423358	116204Y1 72	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	\$	\$	\$	\$	\$
1	Penthouse Mechanical Room	Schneider	TR3-ETR-0AP	10 472 005	\$	\$	\$	\$	\$
1	7th floor Parking Garage	Fujitsu	AOU36RL XFZ		\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Ground Floor	HeatCraft	PTN104H6 BH	T11L0699 3	\$	\$	\$	\$	\$
Sub-Total 4					\$	\$	\$	\$	\$
TOTAL 4					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Building 5: L'Esplanade Laurier, 140 O'Connor Street, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Basement East Tower	Trane Chiller #3	CentraVac CV-12F-G6H6	L4C175 45	\$	\$	\$	\$	\$
1	Basement East Tower	Copeland Purge unit #3	M2FH-0026-1AA001	01B719 79	\$	\$	\$	\$	\$
1	Basement East Tower	Allan Bradley	N/A	N/A	\$	\$	\$	\$	\$
1	Basement East Tower	Trane Chiller #2	CentraVac CV-12F-G6H6	L4C175 46	\$	\$	\$	\$	\$
1	Basement East Tower	Trane Purge unit #2	PRGCA01 1ABGA	L94H07 850	\$	\$	\$	\$	\$
1	Basement East Tower	Allan Bradley	N/A	N/A	\$	\$	\$	\$	\$
1	Basement East Tower	Trane Chiller #1	CentraVac CV-12FS	L4F180 22	\$	\$	\$	\$	\$
1	Basement East Tower	Trane Purge unit #1	Not Readable	Not Readable	\$	\$	\$	\$	\$
1	Basement East Tower	Allan Bradley	1250T	SS-35406-4BC	\$	\$	\$	\$	\$
1	Basement East Tower	Vulcain	VA301EM		\$	\$	\$	\$	\$
1	Engineer's office	Volcain remote monitor	VA201C		\$	\$	\$	\$	\$
1	Basement East Tower	Building Control Unit (BCU)	BMTX001 AAA011	L06F03 157	\$	\$	\$	\$	\$
1	Tower #1 East Penthouse	Tower tech	TTXL-061950-4	TTXL-2012-067-13-01	\$	\$	\$	\$	\$
1	Tower#2 East Penthouse	Tower tech	TTXL-061950-4	TTXL-2012-067-13-02	\$	\$	\$	\$	\$
1	Tower#3 Westside of East Penthouse	Tower tech	TTXL-061950-4	TTXL-2012-067-13-03	\$	\$	\$	\$	\$
1	Tower#4 Westside	Tower tech	TTXL-061950-4	TTXL-2012-	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

	of East Penthouse			067-13- 04					
1	East Penthouse	Danfoss VFD	177U5933	443804 Y053,	\$	\$	\$	\$	\$
1	East Penthouse	Danfoss VFD	177U5933	443904 Y053	\$	\$	\$	\$	\$
1	West Penthouse	Danfoss VFD	177U5933	444004 Y053	\$	\$	\$	\$	\$
1	West Penthouse	Danfoss VFD	177U5933	444104 Y053	\$	\$	\$	\$	\$
Sub-Total 5					\$	\$	\$	\$	\$
TOTAL 5					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Building 6: Chambers Building, 40 Elgin Street, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	9th floor Room # 909	Hiross	HS-009	N/A	\$	\$	\$	\$	\$
1	9th floor Room # 909	Hiross	SH070W	N/A	\$	\$	\$	\$	\$
1	9th floor Room # 907	Hiross	SH030W	N/A	\$	\$	\$	\$	\$
1	9th floor Room # 903			N/A	\$	\$	\$	\$	\$
2	9th floor Room # 909 CA2 & AC3	Ecosaire	S.SMOB03 0WZ656FI FSKOT	N/A	\$	\$	\$	\$	\$
1	9th floor Room # 909 AC1	Ecosaire	S.SMOB03 0WZ656FI FSKOT	N/A	\$	\$	\$	\$	\$
1	FPB-701 (S-2)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-702 (S-1)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-703 (AA-2)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-704 (AA-1)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-705 (S-3)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-706 (AA-3)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-707 (S-4)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-708 (AA-5)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-709 (AA-5)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-710 (S-5)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-711 (AA-6)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-712 (S-6)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-713 (R-7)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	FPB-714 (S-7)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-715 (AA-8)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-716 (S-8)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-717 (S-9)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-718 (AA-9)- 7th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	FPB-619 (RS) - 6th Floor	Fan Power Box	N/A	N/A	\$	\$	\$	\$	\$
1	COND-600-6th Floor	LG Multi Zone Condenser	ARWN072 BAS4	802KCDG 14P15	\$	\$	\$	\$	\$
1	EV-604 - 6th Floor	Evaporator Unit	ARNU323 SVA4	711KCVU 13C47	\$	\$	\$	\$	\$
1	EV-603 - 6th Floor	Evaporator Unit	ARNU123 BGA4	704KCVU 0X959	\$	\$	\$	\$	\$
1	EV-602 - 6th Floor	Evaporator Unit	ARNU153 BGA4	610KCKJ 0TY57	\$	\$	\$	\$	\$
1	EV-601 - 6th Floor	Evaporator Unit	ARNU153 BGA4	704KCHE 0X961	\$	\$	\$	\$	\$
1	COND-700 - 7th Floor	LG Multi Zone Condenser	ARWN072 BAS4	802KCM R14P14	\$	\$	\$	\$	\$
1	EV-702 - 7th Floor	Evaporator Unit	ARNU323 SVA4	704KCYQ 0X962	\$	\$	\$	\$	\$
1	EV-703 - 7th Floor	Evaporator Unit	ARNU123 BGA4	712KCRN 02182	\$	\$	\$	\$	\$
1	EV-701 - 7th Floor	Evaporator Unit	ARNU153 BGA4	610KCM R0TY55	\$	\$	\$	\$	\$
2	7th Floor	Manitowoc Ice Machine	IDT1500A-261	11204344 45	\$	\$	\$	\$	\$
1	6 th Floor	Manitowoc Ice Machine	SPA310	11203793 38	\$	\$	\$	\$	\$
1	Garage	CBRN Unit (Certified Oct 16, 2020)	CF-1X3-TSU14-1GB-SAFESCA	CBRN (J66930)	\$	\$	\$	\$	\$
Sub-Total 6					\$	\$	\$	\$	\$
TOTAL 6					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Building 7: Supreme Court, 345 Wellington, Ottawa, ON									
# of Units	Location	Make	Model	Serial #	Year 1	Year 2	Year 3	Year 4	Year 5
1	Lan Room	Ecosaire	UE28D5E GB2EB	73005-A1	\$	\$	\$	\$	\$
1	UPS Room	Movincool	Office Pro 60	217014 9600	\$	\$	\$	\$	\$
1	Basement in front of MCC	York	D1NA036 N07225C	N0K596 5584	\$	\$	\$	\$	\$
1	342 elevator mechanical room roof	Mitsubishi Electric	PUY-A24NHA4	1XU049 77A	\$	\$	\$	\$	\$
1	345 elevator mechanical room roof	Mitsubishi Electric	PUY-A24NHA4	1XU049 77A	\$	\$	\$	\$	\$
1	Judges elevator mechanical room	Mitsubishi Electric	PUY-A24NHA4	1XU049 86A	\$	\$	\$	\$	\$
1	Stack elevator mechanical room	Fujitsu	AOU12CQ	BDN036 553	\$	\$	\$	\$	\$
1	Audio Visual Room 137	Friedrich	CP24G30 A	n/a	\$	\$	\$	\$	\$
1	Audio Visual Room 137	Friedrich	CP24G30 A	n/a	\$	\$	\$	\$	\$
1	Lan Room	Movincool	Office Pro 60	101406 90600	\$	\$	\$	\$	\$
1	West Guard Hut	LG	LW8016E RY7	n/a	\$	\$	\$	\$	\$
1	East Guard Hut	Friedrich	CPO5G10 B	n/a	\$	\$	\$	\$	\$
1	RCMP Down Room	Friedrich	CP12G10 B	n/a	\$	\$	\$	\$	\$
1	West Sub-basement tunnel	Movincool	24HFU-1	0496 0156 24I	\$	\$	\$	\$	\$
1	UPS Room	Movincool	Office Pro 24	109002 6240	\$	\$	\$	\$	\$
1	UPS Room	Movincool	Classic Plus 26	412048 6260	\$	\$	\$	\$	\$
Sub-Total 7					\$	\$	\$	\$	\$
TOTAL 7					\$				

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Summary of Pricing Schedule 1

Note: The annual totals from each table will be added together and these totals must be placed in the 'Firm Price' column of each Summary table for each respective year. These annual Firm Price totals must then be divided into quarterly rates and put in the appropriate Firm Quarterly Rate space.

Pricing Schedule 1			
Period	Firm Quarterly Rate	Number of Quarters	Annual Firm Price
Year 1	\$	x 4	\$
Year 2	\$	x 4	\$
Year 3	\$	x 4	\$
Year 4	\$	x 4	\$
Year 5	\$	x 4	\$
Total of Pricing Schedule 1			\$

**IN THE CASE OF ERROR IN THE EXTENSION OF PRICES, THE UNIT PRICE WILL GOVERN.
CANADA MAY ENTER INTO CONTRACT WITHOUT NEGOTIATION.**

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Please **DELETE** Annex A in its entirety and **REPLACE** with:

SW 1. General

1.0 The contractor must execute such work in a careful and workmanlike manner and in accordance with all related Codes, Standards and Regulations from all levels of Government (Provincial/Territorial, Municipal and Federal) and also adhere to all Federal, Provincial, and Municipal Environmental Regulations as they pertain to the services requested herein.

1.1 References:

1. ANSI/ASRAE Standard Practice for Inspection and Maintenance of Commercial Building HVAC Systems.
2. American Society of Mechanical Engineers (ASME) Operating Practice for Feed Water and Boiler Water Chemistry in modern industrial boilers.
3. American Boiler Safety Association (ABSA)
4. The Canadian Standard Association CSA B-51 and CSA B-52
5. ASME (American Society of Mechanical Engineers) Guidelines:
 - a. Boiler and Pressure Vessel Code, Section VI, "Recommended Rules for the Care and Operation of Heating Boilers" and
 - b. Section VII, "Recommended Rules for Care and Operation of Power Boilers".]
 - c. Suggested Water Chemistry Limits for water and fire tube boilers, electric boilers and turbines
6. Workplace Safety and Insurance Board (WSIB)
7. Ontario's Occupational Health and Safety Act (OHSA)
8. Workplace Hazardous Material Information Sheets (WHMIS)
9. Global Harmonized System of Classification and Labelling of Chemicals (GHS)
10. The Canadian Environmentally Friendly Program (ECOLOGO Program)
11. Canadian Environmental Protection Act.

1.2 The Contractor must furnish all necessary travel, tools, materials, services and labour to carry out the work required under the terms and conditions of this contract on the equipment listed in 6.0 Equipment Inventory.

1.3 Certification

The Contractor must be registered with Technical Standards and Safety Authority (TSSA) and service personnel must be in possession of:

HVAC & Refrigeration Equipment - three (3) service personnel with:

1. valid Refrigeration and Air Conditioning License or approved red seal inter-provincial equivalent
2. valid Ozone Depletion Prevention Card or approved inter-provincial equivalent
3. valid Fall Protection Certificate
4. valid Confined Space Awareness Certificate
5. valid First Aid & CPR Training Certificate
6. valid WHMIS certification [includes the new Globally Harmonized System of Classification and Labelling for chemicals (GHS)]

Gas Fired Equipment - three (3) service personnel with:

1. valid Québec certificate of qualification in class 3 gas appliance techniques OR a valid Ontario Certificate G1 (Gas Technician 1) OR Provincially accepted Red Seal equivalent
2. valid Fall Protection Certificate
3. valid Confined Space Awareness Certificate
4. valid First Aid & CPR Training Certificate
5. valid WHMIS certification [includes the new Globally Harmonized System of Classification and Labelling for chemicals (GHS)]

Apprentices

- a) Apprentices employed by the Contractor must be fully registered in a Boiler or Refrigeration Tradesman Program related to the services of this Statement of Work
- b) Apprentices must work, at all times, under the direct supervision of a Journeyman Boiler, and or Refrigeration Mechanic.

2 Task and Responsibilities: Comprehensive Maintenance

The Contractor must provide travel, labour and materials for all service calls, monthly inspections, cleaning, lubrication, testing, calibration, filter replacements, repairs, as per the manufacturer's recommended maintenance including but not limited to the items listed below to maintain the equipment listed in 6.0 Equipment Inventory.

2.1 Included in the Contract

1. perform oil and refrigerant analysis annually. - Provide a report as per section 5 – Reporting.
2. replace oil and filters in the first year of the contract; including filters and skimmer lines then replace as per the manufacturer's recommendations, or base on recommendations from the oil analysis reports
3. replace refrigerant filters annually or more frequently if necessary
4. clean chiller condensers annually

5. clean evaporator tubes in the first year and fourth year of the contract
6. perform Eddy Current tests on both the evaporator and condenser tubes in the first year and fourth year of the contract.
7. pressure-clean all AC condensers annually before the 15th of July. - Provide a report as per section 5 – Reporting.
8. inspect and maintain all electrical switches, disconnect and fuses;
9. inspect and maintain all control valves, regulating valves, relief valves and strainers between the chillers and the cooling towers; and, between the equipment (boilers, air handling units, ACs ...etc.) and the pumps
10. inspect, test and maintain the Variable Frequency Drive (VFD) and Speed drives, attached to equipment listed in 6.0 Equipment Inventory as per manufacturer's recommendations
11. replace pressure relief valves as per TSSA's recommendations
12. test refrigerant leak detectors semi-annually. - Provide a report as per section 5 – Reporting.
13. test and maintain the refrigerant exhaust systems – including dampers – monthly
14. leak-test the chillers and all AC units quarterly - Provide a report as per section 5 – Reporting.
15. inspect the cooling towers monthly:
 - a. examine water flow through the tower for normal unrestricted flow – monthly
 - b. examine drift eliminators internally and externally for damage and for excessive drift
 - c. with system power off, examination of the internal structure of the tower deterioration
 - d. report any deterioration of materials, particularly the fill, drift eliminators, basin, and water distribution system. The report must include photos of the damage.
16. perform complete as per manufacturer's recommendations - maintenance on compressed air systems (compressor, storage tanks dryers, piping, valves and fittings) semi-annually. Use only OEM parts for the compressors.
17. inspect maintain condensate systems
18. repair/replace defective components and air vents
19. test and certify all the carbon monoxide sensor semi-annually
20. test and certify (dust) spark-arresters semi-annually
21. the costs for service calls (24/7) are included in the firm rates (pricing schedule 1) of the contract and is defined as the labour from the time a service call is initiated with the Contractor inclusive of travel, parking, labour to investigate the call, and repair and confirmation to the National Service Call Centre (NSCC) that the call has been rectified.

2.2 Task and Responsibilities: Inspection and Maintenance

2.2.1 Included in the Contract:

The Contractor must complete all required inspections and maintenance on the equipment listed in 6.0 Equipment Inventory, as per manufacturer's recommendations except where required more frequently herein.

1. Travel, labour and materials for all inspection, cleaning, lubrication, testing, calibration and maintenance as per manufacturer's recommendation
2. replacement of belts
3. replacement of filters
4. replacement of motor pulleys
5. replacement of fan pulleys
6. replacement of shaft coupling
7. replacement of all externally lubricated motors
8. safety valves on compressors
9. replacement of fuses, switches and contactors
10. quarterly leak-tests on all AC equipment
11. replace motor and fan bearings

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

-
12. Clean condenser tubes annually
 13. Clean the evaporator tubes in the first (1st) and fourth (4th) years of the contract.
 14. All Halo-carbon systems must be leak tested quarterly and submit a copy of the electronic report to the Technical Authority
 15. oil analysis annually
 16. refrigerant analysis annually
- 2.2.2** Emergency calls are included in the firm rates (pricing schedule 1), if the cause or reason for the call results from failure of parts or systems related to 2.1 and 2.2.1 above. All other repairs, not listed in 2.1 and 2.2.1 are extra in accordance with pricing schedule 2 – Extra work.

2.2.3. General Service

1. All equipment must be inspected monthly. Seasonal startup and shutdown of the equipment must be coordinated with the PWGSC Site Authority. The Work must be performed in such manner that ensures operation of the complete system(s) based on original design or subsequent approved design modifications and must be as recommended by the manufacturer(s).
2. The Contractor must have and maintain access - at all times - sufficient direct replacement parts, OEM for immediate repairs of component to ensure continuous operation of equipment.
3. Upon request by the Technical Authority, the Contractor must provide a complete schematic wiring diagrams, detailed adjustment procedures and detailed operational descriptions of all equipment included in this Statement of Work.

2.2.4. Control Systems

1. Conduct annual tests of the control systems where applicable, to ensure all circuits and settings are properly adjusted.
2. Test the controls according to the manufacturer's specifications.
3. Record all limit and control settings and submit along with the quarterly reports.

2.2.5. Oil and filter(s)

The Contractor must perform a full oil change and filter(s) replacement at intervals as per manufacturer's recommendations or more often if conditions indicate deterioration.

2.2.6. Steam Traps and Strainers

The Contract must survey all steam traps, strainers, and vents annually
Provide a report as per section 5 – Reporting.

2.2.7. Scheduling

Preventive maintenance must be performed during regular working hours, 08:00 to 15:00 hours Monday through Friday, excluding legal holidays - Provincial and Federal.

1. Within sixty (60) days after contract award, the Contractor must provide a detailed schedule of maintenance to be applied for each year the contract.
 - a. This schedule must contain and reflect the manufacturer's recommended maintenance and all requirements of this Statement of Work.
 - b. The proposed schedule must be reviewed by the Technical Authority and may require revision by the Contractor to meet the operational requirements. Any such changes must be considered as part of this Statement of Work. The Technical Authority must approve any variance from this schedule.

2.2.8. Call Backs/Emergency Calls

The Contractor must provide twenty-four (24) hour, seven (7) days per week emergency call back service, for the duration of the contract. The Contractor must respond within 30 minutes, and be on site ready to work within two (2) hours of receiving the emergency service call. All work for emergency service must be executed by qualified service personnel and such work must proceed continuously until the system is returned to a safe operating condition. The Contractor must contact the National Service Call Center (NSCC) at **1-800-463-1850 and**

update the NSCC on the status of each request within 24 hours; and to close out the ticket once the issue is resolved.

2.2.9. Non-working Service Manager

The non-working service manager must be fully responsible for all technical services performed on this contract. He / She must be authorized to accept notices, orders, and make decisions, give consent, direct the technicians and be the first point of communication for all matters pertaining to the contract.

In the event that there is an emergency, the Technical Authority may request that the Contractor's Non-working Service Manager respond on-site within two (2) hours of receiving the call on a 24 hour, 7 day basis.

2.2.10. Maintenance Plan

The Contractor must provide a detailed maintenance service plan specific to the equipment inventory, which must outline all tasks, procedures, all maintenance routines and frequencies to meet the manufacturers' recommendations. The plan must identify the maintenance to be performed annually, semi-annually, quarterly and monthly. The plan must be reviewed by the Technical Authority and may require revision by the Contractor to meet operational requirements – any such changes required must be considered as part of the contract. The Contractor must submit the plan to the Technical Authority in Microsoft Office Suite format (including sample of inspections sheets for all routines), within 60 calendar days after award of the Contract.

3.0. Extra work and Exclusions

3.1. Extra Work

The Contractor must notify the Technical Authority by phone within four (4) hours and subsequently follow-up with a written report via e-mail within 24 hours of any equipment failure requiring repair(s), upon discovery of any negligent operation, or misuse of the equipment. The Contractor may be required to make the repair(s) or replace components necessitated by such occurrence and may charge an extra cost in accordance with "pricing schedule 2". The Contractor must identify modifications or improvements to the equipment or system(s) that will enhance the serviceability, life expectancy and/or efficiency of the equipment or system. The Contractor must provide a cost estimate for suggested repairs, modifications or improvements in accordance with "Pricing Schedule 2".

4.0. Health and Safety Requirements

4.1. Environmental Protection

The Contractor must conform to all applicable environmental laws and regulations in effect including the Federal Halocarbon Regulations.

During repairs or replacements the Contractor must use closed-loop refrigerant recovery equipment to minimize refrigerant emissions. The Contractor must guard against oil spills or damage to surfaces and roofing system by providing protection (such as plywood or plastic under the equipment) during service operations. In the event of an accidental spill, the Contractor must notify the Site Authority immediately so that remedial action may be taken.

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

The Contractor must not leave waste materials on site unless approved by the Technical Authority. The Contractor must not dispose of waste or volatile materials, such as mineral spirits or paints and oil thinner into waterways, storm or sanitary sewers. The Contractor must control the disposal of the runoff of water containing suspended materials or other harmful substances in accordance with local environmental regulations.

4.2. WHMIS and Safety Training

The Contractor must comply with the requirements of the Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials, regarding labeling and the provision of material safety data sheets acceptable to Human Resources Development Canada, Labour Program.

- a. Provide a blue binder with all up to date material safety data sheets (MSDS) for the chemicals being used by the Contractor on site.
- b. Ensure that all service personnel have all the required safety training to perform the work on this contract.
- c. the training must include: fall protection, confined spaces, first aid and cardiopulmonary resuscitation (CPR) and any other safety training required by Acts, Codes or Regulations.
- d. The Contractor must provide a copy of its "Safe Work Policy" to the Technical Authority within thirty (30) calendar days after the contract is awarded; and update it and submit for review to the Technical Authority annually, at the end of each year. The Contractor must ensure that the Work area is maintained in a safe condition at all times during work performance.

The Contractor must complete and submit to the Technical Authority via E-mail Hazardous Assessment, Emergency Response and Safety Orientation Checklists (see Appendix "B") after the first regular inspection of the equipment.

5.0 Reporting

- 5.1** All Reports are to be submitted in soft copy PDF format electronically via approved E-mail.

5.2. Interim or incident Reporting

The Contractor must report to the Technical Authority verbally, and follow-up by E-mail within twenty-four (24) hours of every visit for other than regular maintenance.

- a. The report must detail the work completed, any work outstanding and reasons, and an estimated time of completion.
- b. the Contractor must call to the attention of the Technical Authority any improper procedures noted on site - details must be provided in the quarterly reports.
- c. Report all Halocarbon losses and complete the applicable forms – in accordance with the Federal Halocarbon Regulations (FHR) - within twenty-four (24) hours of release to the Technical Authority.

5.2.1. Equipment report cards

A completed service report card outlining all services performed on the equipment must be enclosed in a clear vinyl envelope and affixed safely to the equipment - each system, in an accessible and highly visible area. The report cards are to remain with the equipment for the duration of the contract and are to be turned over to the Technical Authority when the cards are complete or upon contract completion or termination.

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

5.2.2. Service Reports

The Contractor must provide all services reports in Electronic format, The Contractor must provide the manufacturers recommended checklist for each piece of equipment in accordance with the manufacturers recommend maintenance with every quarterly report. A signed, written service report must be completed and left with the Site Authority each time service is performed. The Contractor must provide reports of test and certification/verification of systems within 30 days of completion.

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

5.2.3. All reports must include:

- a. Date and time of inspection or repair;
- b. Building name and location;
- c. Technician's name and signature;
- d. Equipment identification - including make, model, serial numbers, maintenance management identification;
- e. Description of work performed;
- f. Parts replaced; and
- g. Condition of equipment (good, Fair Poor)

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

6.0 Equipment Inventory

1A. TILLEY COMPOUND 719 HERON ROAD, OTTAWA, ON					
Units	Location Room No.	Make	Model	Serial No.	Details
1	Tilley Building Basement Mech Rm.C010	Multi-stack Chiller Ch-01 560 Tons	MS70XC1W1-410A	AB-01-091	14 COMPRESSORS 7 MODULES OR STAGES
1	Tilley Building Basement Mech Rm.C010	Multi-stack Chiller Ch-02 490 Tons	MS070XC2C1W2AA- 410A	AB-01-091	16 COMPRESSORS 8 MODULES OR STAGES
1	Tilley Building Basement Mech Rm. C010	Multi-stack Chiller/Heat Recovery Ch-03 70 Tons	MS070XC2C1W2AA- 410A	AB-01-083	2 COMPRESS 1 MODULES OR STAGES
2	Tilley Building	Cooling Tower	N/A	N/A	N/A
2	Tilley Building	Cooling Tower Existing	CD-B-4 42w00088	N/A	N/A
1	Tilley Building Mech C313	TACO Expansion Tank 03	CBX300-125	234716	N/A
1	Tilley Building Mech C313	TACO Expansion Tank 02	CBX300-125	234715	N/A
1	Tilley Building Mech C313	TACO Expansion Tank 01	CBX300-125	234714	N/A
1	Tilley Building Mech C313	TACO Expansion Tank 04	CBX300-125	234717	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Deaerator As-01	AC12	354367	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 09 Glycol	F18013	1013807880	Frame:404-51
1	Tilley Building Basement Mech Rm.C010	TACO Pump 08 Glycol	F18013	1013807870	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 06 Main CW	F111506	1013807873	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 04 For Chiller #3	KV3066	2037883	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 07 Glycol	F18013	1013807871	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 05 Main CW	F11506	1013907672	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 03 For Chiller #3	KV3066	2037883	N/A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Tilley Building Basement Mech Rm.C010	TACO Pump 01 HW	FI1506	2037883	N/A
1	Tilley Building Basement Mech Rm.C010	TACO Pump 02 HW	FI1506	2037883	N/A
1	Tilley Building Basement Mech Rm.C010	Chromalox Electric Boiler		5.908 732	480 Kw
1	Tilley Building Basement Mech Rm.C010	Honeywell Expansion Module Gas Detection System	301EM		C/W 4 gas detectors
1	Tilley Building 2.5 Flr C.313	Spray Pump Darling 25-400-023	N/A	N/A	N/A
1	Tilley Building 2.5 Flr C.313	Spray Pump Darling 25-400-024	N/A	N/A	N/A
1	Tilley Building 2.5 Flr C.313	Spray Pump Darling 25-400-025	N/A	N/A	N/A
1	Tilley Building 2.5 Flr _Rm. C313	Spray Pump Darling 25-400-026	N/A	N/A	N/A
1	Tilley Building 2.5 Flr Rm.C313	Spray Pump Darling 25-400-027	N/A	N/A	N/A
1	Tilley Building C112	Air Compressor #1 Kellogg American	452TV	V9E0237PIZ M	
1	Tilley Building C112	Air Compressor #2 Kellogg American	452TV	V9E0238PIZ M	
1	Tilley Building C112b	Air Compressor Kellogg American	452TV	02I1010PIZ	
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-004-L02	ARUB168BTE4AWGBL US	808KCUK0A R66	08-2018 Unit #004
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-001- L01	ARUB169BTE4AWGBL US	807KCPY0ZT 76	07-2018 Unit # 001
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-005-L02	ARUB169BTE4AWGBL US	807KCHE0ZT 77	Unit # 005
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-002-L01	ARUB121BTE4AWGBL US	806KCRN16 Q78	Unit # 002
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-003-L01	ARUB168BTE4AWGBL US	806KCOX16N 24	06-2018 Unit # 003
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-006-L02	ARUB16BTE4	807KCYQ0ZT 78	07-2018 Unit # 006
1	Annex E Tilley Compound	LG Multi V Heat Pump CD-007-L02	ARUB168BTE4AWGBL US	705KCEA1C D44	05-2017 Unit # 007
1	Annex E Tilley Compound	Mitsubishi Electric CD-ELECT.R	PU42EK72 mr.slim	Missing	PSPC 25-150

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Annex E Tilley Compound	LG (JAL Inverter) CD-ELEV	LSU120HSV5	802KAZK0LA 09	PSPC 25-150
1	Annex E Tilley Compound	LG CD-012-L01	LSU180HSV4	709KAAE04 768	PSPC 25-150
1	Annex E Tilley Compound	LG CD-013L01	LSU180HSV4	709KAWQ0 4913	PSPC 25-150
1	Annex E 1 st Floor	Water Fountain ELKAY	LZWSR_1D	190135176	N/A
1	Annex E 2 nd Floor	Water Fountain ELKAY	LZWSR_1D	190135181	N/A
1	Annex E Janitor Rm. 1 st Floor	Humidifier neptronic	SF SKE4-N04M-600	18-3335418	N/A
1	Annex E Janitor Rm. 1 st Floor	Humidifier neptronic	SF SKE4-N04M-600	18-3335420	N/A
1	Annex E Janitor Rm. 2 nd Floor	Humidifier neptronic	SF SKE4-N04M-600	18-3335419	N/A
1	Annex E Janitor Rm. 2 nd Floor	Humidifier neptronic	SF SKE4-N04M-600	18-3335421	N/A
1	Annex E Outside	LIEBERT VERTIV Condensor CD-011-L01	MCM040E1YDK363	Y18GAY003 2	N/A
1	Annex E Rm.120	Liebert CRAC unit 4	CR035RA1C7U515	Y18GBM004	Server Name CRV-004-L01
1	Annex E Outside	LIEBERT VERTIV CD-008-L01	MCM040E1YDK363	Y18GAY003 1	N/A
1	Annex E Rm.120	Liebert CRAC unit	CR035RA1C7U515	Y18GBM000 5	Server Name CRV-001-L01
1	Annex E Tilley Compound	LIEBERT VERTIV CD-010-L01	MCM040E1YDK363	Y18GAY003 0	N/A
1	Annex E Rm.120	Liebert CRAC unit	CR035RA1C7U515	Y18GBM000 9	Server Name CRV-003-L01
1	Annex E Tilley Compound	LIEBERT VERTIV CD-009-L01	MCM040E1YDK363	Y18GAY000 4	N/A
1	Annex E Rm.120	Liebert CRAC unit	CR035RA1C7U515	Y18GBM001 0	Server Name CRV-002-L01
1	Annex E E207 MW	Mitsubishi Lossnay ERV	LGH-200RX3-CAN	00000003	
1	Annex E E205 WW	Mitsubishi Lossnay ERV	LGH-200RX3-CAN	00000004	
1	Annex E E111 MW	Mitsubishi Lossnay ERV	LGH-200RX3-CAN	00000006	
1	Annex E E109 WW	Mitsubishi Lossnay ERV	LGH-200RX3-CAN	00000013	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1B. DRAKE COMPOUND 719 HERON ROAD, OTTAWA, ON

Units	Location Room No.	Make	Model	Serial No.	Details
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-1 43w00104	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-2 48w00049	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-3 48w00069	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-4 43w00108	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-5 43w00116	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-6 47w00062	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-7 43w00110	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-8 43w00119	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric	CD-A-9 4zw00087	PUHY-250TEM-A	
1	Annex F Drake Compound	Mitsubishi Electric			
1	Annex F Drake Compound	Liebert	DCSL083-B	0520C77559	
2	Drake Guard Hut	American Standard Inc. Trane	TWE060A300EL	5354KKTBD	
1	Annex F Elev.Rm. Drake Compound	Mitsubishi	PK12FK3 (Indoor) PU12EK (Outdoor)	54A00170C	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Annex F Ground Floor WW	Mitsubishi Lossnay ERV	LGH-200RX3- CAN	00000009	
1	Annex F Ground Floor MW	Mitsubishi Lossnay ERV	LGH-200RX3- CAN	00000001	
1	Annex F Second Floor WW	Mitsubishi Lossnay ERV	LGH-200RX3- CAN	00000010	
1	Annex F Second Floor WW	Mitsubishi Lossnay ERV	LGH-200RX3- CAN	00000002	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

2. 2455 DONREID DRIVE, OTTAWA, ON

Units	Location Room No.	Make	Model	Serial No.	Details
1	Main Mech Room	Arcti-Chill (3) PACVMV06000D 5-MM & (3) FC160	S015480-01 TP01505200	A001023809	Including Controls, pumps, strainers, and control system. And Compressors and condensers
1	Main Mech Room	Glycol System Pump and Tank	N/A	N/A	
1	Main Mech Rm AHU#2	Ventrol Custom	ITF 1-2	SO15480-02	Fan has 9 (5Hp) motors in parallel. Filters (25x25x2) 25 Including related pumps and strainers
1	Main Mech Rm AHU#1	Ventrol Custom	ITF 1-2	SO15480-02	Fan has 9 (5Hp) motors in parallel. Filters (25x25x2) 25 Including related pumps and strainers
1	Main Mech Rm	Master ERV -1	Reverse flow EB-9000- Custom	N/A	Motor Leeson Electric Model C182T17FB31E Cat 131460.00
9	Shop Floor, Perimeter	Lennox Furnaces	G51MP Series G51MP60D13508	5910B07045 TO 5910B07047	
6	Throughout the printing plant	Johnson Controls Fan coil Units	1.1, 1.2, 1.3 ,1.4, 1.4, 2.1, 2.2	N/A	N/A
2	Print Shop Floor	Envior Air Dust collectors	500/50	N/A	N/A
8	Throughout the plant	Greenheck Exhaust Fans	#5=QE1-20-1 #8=CSP-A1050	N/A	N/A
1	Shipping Loading Dock	Carbon Monoxide Detector	AMC-98AC Electro-chemical NO2 Sensor	11XN-6A0055	N/A
2	Shipping Loading Dock	Gas-fired Unit Heaters	Lennox	N/A	Gas Fired
1	Office outside plant area	Gas Fired Domestic Hot Water	N/A	N/A	N/A
2	Plant floor Room 143	Kaeser Compressor system	ADS – 25 Sigma	1017	N/A
1	Dryer System	Kaeser Service Code KAD 115 AA-150-L1-1005-F	KAD – 115 –G4	1420429-1	N/A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Storage Tank	Kaeser	RN# L4036.5C	N/A	N/A
2	Building	Drinking Fountains	N/A	N/A	N/A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

3. VICTORIA BUILDING, 140 WELLINGTON, OTTAWA ON					
Units	Location Room No.	Make	Model	Serial No.	Details
1	S-Bsmt: Near Fire Pumps	Air Compressor #1	N/A	N/A	N/A
1	S-Bsmt: Near Fire Pumps	Air Compressor #2	N/A	N/A	N/A
1	S-Bsmt: under suspended ceiling	Cooling Unit	N/A	N/A	N/A
1	Bsmt: Men's locker room	AHU #1	N/A	N/A	N/A
1	Bsmt: Men's locker room	AHU #2	N/A	N/A	N/A
1	Bsmt: Room 015	AHU #3	N/A	N/A	N/A
1	Bsmt: Room 015	AHU #4	N/A	N/A	N/A
1	Bsmt: Room 023	Exhaust Fan	N/A	N/A	N/A
1	Bsmt: Garbage Room (Prom.)	Lockers Exhaust Fan	N/A	N/A	N/A
1	Room 138	AHU #5	N/A	N/A	N/A
1	Room 202	AC unit	N/A	N/A	N/A
1	Room 238 (left)	AC unit	Canair HE062-1	ZH042864	R-22 unit
1	Room 238 (right)	AC unit	Canair HE062-1	YE025856	R-22 unit
1	Room 200	AC unit	Canair CP65WV5- MTE	MTE909931	R-22 unit
1	Room 301	AC unit	Canair HE062-5	YG029015	R-22 unit
1	Room 338 (left)	AC unit	Canair EM062- 5VTC	CC083751	R-22 unit
1	Room 338 (right)	AC unit	Canair EM060- 5VTC	EB001579	R-22 unit
1	Room 400	AC unit	Canair EM-060- 3VTC-SFC	HE015743	R-22 unit
1	Room 438	AC unit	Canair 50BT-012- 120	2294V90406	R-22 unit
1	Room 500a	AC unit	Canair HE062-5	YF027390	R-22 unit

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Room 538	AC unit	Canair HE062-5VTC	AJ058862	R-22 unit
1	Room 524	AC unit	Canair HE062-5	YG028989	R-22 unit
1	Room 522	AC unit	Canair HE062- 5VTC	AA048632	R-22 unit
2	Room 601	AHU #7	Williams AV030W2B80	290941	Chilled Water
1	Room 638	AC unit	Canair N/A	1590F11724	R-22 unit
1	Room 604	AC unit	N/A	N/A	N/A
1	Room 706	AC unit	Trane WPVD10031M	W97A00172	R-22 unit
1	Room 706 (ceiling)	AC unit			
1	Room 700	AHU 700	Trane SWUB- B755-F	S89E36252	R-22 unit
1	Room 702	AC unit	Trane SWUB- C105-D	S89D23557	R-22 unit
1	Room 838	AC unit	Trane SWUB- C105-D	S90G50234	R-22 unit
1	Front of elevator	AC unit	York E60W-58B	EM-024694Y	R-22 unit
1	Room 938	AC unit	Canair CP45WH3	MTA910319	R-22 unit
1	Room 906	AC unit	N/A	N/A	N/A
1	Room 900	AC unit	N/A	N/A	N/A
1	Diesel room	Fresh air supply fan	N/A	N/A	N/A
1	Diesel room	MWR Exhaust Fan	N/A	N/A	N/A
1	Diesel room	Washroom Exhaust Fan	N/A	N/A	N/A
1	Roof	MAU # 6	N/A	N/A	N/A
1	11	Fresh Air Supply fan	N/A	N/A	N/A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

Building 4: 455 BLVD DE LA CARRIÈRE, GATINEAU, QC

Units	Location	Make	Model	Serial #	Details
1	Penthouse Mech	Carrier Chiller	19XR-2022266BGH65)	3211Q21084	P04-ERP-0AP
1	Penthouse Mech	Carrier Chiller	19XR-2022266BGH65)	3211Q21085	P05-ERP-0AP
1	Penthouse Mech	Carrier Chiller	30XW-2501-BSCB	3211Q19506	P06-ERP-0AP
1	Penthouse Mech	Carrier Chiller	30HXC106RZU171KA	3711Q19539	P03-EGL-0AP
1	Penthouse Mech	Carrier Chiller	30XB1501---G8WB1	3711Q19539	P04-ERS-0AP
3	Cooling Towers	BAC	N/A	N/A	TR-1ETR-0AP TR-2ETR-0AP TR-3ETR-0AP
2	Cooling Towers	BAC	N/A	N/A	TR-4ETR-0AP TR-5ETR-0AP
1	Roof 13th	Ref Plus	FND243C-8	D2011090459	RL1-EGL-0AP
1	Roof 13th	Ref Plus	FND243C-8	D2011090460	RL2-EGL-0AP
1	Roof 14th	Kool-Air	FEVB-24412-8	170118659	RL3-EGL-0AP
1	Penthouse Mechanical Room	Taco	KV4013A-1050E2L	2037839	P04-ETR-0AP
1	Penthouse Mechanical Room	Taco	KV4011-1100E2L	2037839	P05-ETR-0AP
1	Penthouse Mechanical Room	Taco	N/A	2037839	P04-ERP-0AP
1	Penthouse Mechanical Room	Taco	N/A	2037839	P05-ERP-0AP
1	Penthouse Mechanical Room	Taco	N/A	N/A	P06-ERP-0AP
1	Penthouse Mechanical Room	Taco	N/A	N/A	P03-EGL-0AP
1	Penthouse Mechanical Room	Taco	N/A	N/A	P04-ERS-0AP

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Penthouse Mechanical Room	Taco	N/A	N/A	P03-ERS-0AP
1	Penthouse Mechanical Room	Taco	FI5011-1120E2L	2037181	P01-EGL-0AP
1	Penthouse Mechanical Room	Taco	FI5013-1130E2M	2037181	P01-CBT-0AP
1	Penthouse Mechanical Room	Taco	FI5013-1130E2M	2037181	P02-CBT-0AP
1	Penthouse Mechanical Room	Taco	FI5011-1120E2L	2037181	P02-EGL-0AP
1	Boiler Room	Taco	KV3007-750E2J	2037181	P03-CBT-0AP
1	Boiler Room	Taco	KV3007-750E2J	2037181	P04-CBT-0AP
1	Boiler Room	Taco	KV3007-750E2J	2037181	P05-CBT-0AP
1	Penthouse Mechanical Room	Taco	FI5011-1010E2K	2037181	P02-ETR-0AP
1	Penthouse Mechanical Room	Taco	FI5011-1010E2K	2037181	P01-ETR-0AP
1	Penthouse Mechanical Room	Taco	FI4007-730E2G	2037181	P01-ERP-0AP
1	Penthouse Mechanical Room	Taco	FI4007-730E2G	2037181	P02-ERP-0AP
1	Penthouse Mechanical Room	Taco	FI4007-650F2F	2037181	P03-ERP-0AP
1	Penthouse Mechanical Room	Taco	FI6013-1150E2P	2037181	P01-ERS-0AP
1	Penthouse Mechanical Room	Taco	FI6013-1150E2P	2037181	P02-ERS-0AP
1	Penthouse Mechanical Room	Taco	FI5011-1000E2K	2037181	P03-ETR-0AP
7	Ground Floor	LEIBERT CL1-020-0RC to CL7-020-0RC	CW114DC1AT Server Room	N/A	CL1-020-0RC CL2-020-0RC CL3-020-0RC CL4-020-0RC CL5-020-0RC CL6-020-0RC CL7-020-0RC
2	11 TH Floor	LEIBERT CL1-020-011 to CL2-020-011	BU102C-BDES	N/A	CL1-020--011 CL2-020--011
2	7 TH Floor	LEIBERT CL1-020-007 to	CW041UCSBT	N/A	CL1-020-007 CL2-020-007

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

		CL2-020-007			
2	Ground Floor PBX	LEIBERT CL8-020-0RC to CL9-020-0RC	MMD8TCTBHELE F	N/A	CL8-020-0RC CL9-020-0RC
2	UPS Room	LEIBERT CL1-020-081 and CL2-020-081	CW051UCVB151 49	N12B1410 1012	CL1-020-0S1 CL2-020-0S1
2	Penthouse Mech	Campus Hydronic Ltd Camus Dynaforce Series 20-075-002 20-075-003	DRMH-3000-MSI	01111251 3 01111251 2	CH2-CBT-0AP CH3-CBT-0AP
1	Penthouse Mech	Caloritech Engineered Electric Heat 20-075-001	VWHF18150- 01/VWHF-30-810	W050574- 01	CH1-CBT-0AP
1	Ground Floor Loading Dock	AO Smith Cyclone MXI	BTH-400A300	20031178 52350	CE4-0CD-0RD
1	Basement garage car ramp	Thermo 2000	DTH60078	2011-052	CH1-CRE-0S1
1	14th Floor Mechanical Room	Bousquet	HDGI150SSI4HT MWO	31472- 110829	UC1-019-0T1
1	Mechanical Room B105	Bousquet	SDM200R1TTHD LMN1	31235- 110510	UC1-007-0S1
1	Boiler Room	Mueller	AT40-2B80	1106936- 02	EC1-CBT-0AP
1	Penthouse Mech Room	Mueller	ATX75B-150	1113866- 01	EC3-EGL-0AP
1	Penthouse Mech Room	Mueller	AT40LB-150	1113866- 02	EC2-CBT-0AP
1	Penthouse Mech Room	Mueller	AT120LB-150	1106936- 01	EC1-EGL-0AP
1	Penthouse Mech Room	Mueller	AI40LB-80	1106936- 03	EC2-EGL-0AP
1	Penthouse Mech Room	Extrol	R52332C	223947	RD1-ERP-0AP
1	Boiler Room	Extrol	AX240V	209982	RD1-CBT-0AP
1	Penthouse Mech Room	Extrol	AX80V	223173	RE2-EGL-0AP
1	Penthouse Mech Room	Calefactio	HGTEV-80	N/A	RE1-EFD-0AP
1	Penthouse Mech Room	Extrol	AX150	233314	RE1-EGL-0AP
1	Ground Floor Room 122	Wessels	TTA12	207796	RE1-ECD-0AP

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Garage Ramp Cage	Extrol	SX-40V	1322104	RE2-CBT-0AP
1	Penthouse Mech Room	Extrol	AX600	231949	RE1-ERP-0AP
1	Penthouse Mech Room	Dristeem	GTS04-800	1201151-01-02	HU1-001-0AP
1	Penthouse Mech Room	Dristeem	N/A	N/A	HU2-002-0AP
26	Building	Drinking Fountains	N/A	N/A	DF01-EFD-012 DF02-EFD-012 DF03-EFD-011 DF04-EFD-011 DF05-EFD-010 DF06-EFD-010 DF07-EFD-009 DF08-EFD-009 DF09-EFD-008 DF10-EFD-008 DF11-EFD-007 DF12-EFD-007 DF13-EFD-006 DF14-EFD-006 DF15-EFD-005 DF16-EFD-005 DF17-EFD-004 DF18-EFD-004 DF19-EFD-003 DF20-EFD-003 DF21-EFD-002 DF22-EFD-002 DF23-EFD-RDC DF24-EFD-RDC DF25-EFD-RDC DF26-EFD-RDC
1	Penthouse Mech	Schneider	VA2-001-0AP	05 472 008	
1	Boiler Room	Schneider	P02-CBT-0AP	N/A	
1	Penthouse Mech Room	Schneider	VA1-001-0AP	05 472 007	
1	Penthouse Mech Room	Schneider	P01-ERS-0AP	10 472 002	
1	Penthouse Mech Room	Schneider	P02-ERS-0AP	10 472 001	
1	Penthouse Mech Room	Schneider	RE2-001-0AP	05 472 012	
1	Penthouse Mech Room	Schneider	RE1-001-0AP	05 472 014	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	11th Floor Freight Mechanical	Schneider	CL1-006-011	05 200 082	
1	10th Floor Freight Mechanical	Schneider	CL1-006-010	05 200 081	
1	9th Floor Freight Mechanical	Schneider	CL1-006-009	05 200 080	
1	8th Floor Freight Mechanical	Schneider	CL1-006-008	05 200 079	
1	7th Floor Freight Mechanical	Schneider	CL1-006-007	05 200 078	
1	6th Floor Freight Mechanical	Schneider	CL1-006-006	05 200 077	
1	5th Floor Freight Mechanical	Schneider	CL1-006-005	05 200 076	
1	4th Floor Freight Mechanical	Schneider	CL1-006-004	05 200 075	
1	3rd Floor Freight Mechanical	Schneider	CL1-006-003	05 472 005	
1	2nd Floor Freight Mechanical	Schneider	CL1-006-002	N/A	
1	12th Floor Freight Mechanical	Schneider	CL1-006-012	05 200 083	
1	Ground Floor Room 122	Schneider	CL1-011-0AP	05 200 085	
1	Ground Floor Room 124	Schneider	CL1-009-0RC	05 200 084	
1	Penthouse Mech Room	Schneider	TR1-ETR-0AP	05 472 010	
1	Penthouse Mech Room	Schneider	TR2-ETR-0AP	05 472 011	
1	Penthouse Mech Room	Schneider	VE2-001-0AP	05 472 009	
1	Penthouse Mech Room	Schneider	VE1-001-0AP	05 472 006	
1	Penthouse Mechanical Room	Schneider	P01-EGL-0AP	05 472 004	
1	Boiler Room	Schneider	P01-CBT-0AP	05 472 03	
1	Penthouse Mechanical Room	Schneider	P02-EGL-0AP	05 472 015	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Penthouse Mechanical Room	Danfoss	174Z3359	745104Y1 12	
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	
1	Penthouse Mechanical Room	Danfoss	17423358	116204Y1 72	
1	Penthouse Mechanical Room	Danfoss	N/A	N/A	
1	Penthouse Mechanical Room	Schneider	TR3-ETR-0AP	10 472 005	
1	7th floor Parking Garage	Fujitsu	AOU36RLXFZ		R410A
1	Ground Floor	HeatCraft	PTN104H6BH	T11L0699 3	R404A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

5. L'ESPLANADE LAURIER, 300 LAURIER AVE. OTTAWA, ON

Units	Location	Make	Model	Serial #	Details
1	Basement East Tower	Trane Chiller #3	CentraVac CV-12F-G6H6	L4C17545	Chiller has refrigerant recovery system attached to the purge unit. (Full load amperage for the chiller 1087). Including CH531 Adaptive Controller.
1	Basement East Tower	Copeland Purge unit #3	M2FH-0026-1AA001	01B71979	New style purge unit installed on the top of the chiller and is connected to a Halozone canister. Purge unit is 115 volt
1	Basement East Tower	Allan Bradley	N/A	N/A	Allan Bradley motor starter and cabinet. Model and serial numbers not available at time of inventory.
1	Basement East Tower	Trane Chiller #2	CentraVac CV-12F-G6H6	L4C17546	Chiller has refrigerant recovery system attached to the purge unit. (Full load amperage for the chiller 1087). Including CH531 Adaptive Controller.
1	Basement East Tower	Trane Purge unit #2	PRGCA011AB GA	L94H0785 0	New style purge unit installed on the top of the chiller and is connected to a Halozone canister. Purge unit is 115 Volt.
1	Basement East Tower	Allan Bradley	N/A	N/A	Allan Bradley motor starter and cabinet. Model and serial numbers not available at time of inventory.
1	Basement East Tower	Trane Chiller #1	CentraVac CV-12FS	L4F18022	Chiller has refrigerant recovery system attached to the purge unit. This chiller has a heat recovery unit attached. Including CH531 Adaptive Controller.
1	Basement East Tower	Trane Purge unit #1	Not Readable	Not Readable	New style purge unit installed on the top of the chiller and is connected to a Halozone canister. Purge unit is 115 Volt.
1	Basement East Tower	Allan Bradley	1250T	SS-35406-4BC	Allan Bradley motor starter and cabinet. Model and serial numbers not available at time of inventory.
1	Basement East Tower	Vulcain	VA301EM		Gas monitor expansion module Includes three (3) remote (123) sensors.
1	Engineer's office	Volcain remote monitor	VA201C		N/A

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	Basement East Tower	Building Control Unit (BCU)	BMTX001AAA0 11	L06F0315 7	N/A
1	Tower #1 East Penthouse	Tower tech	TTXL-061950-4	TTXL- 2012-067- 13-01	Date of Manufacture: 01- 24-2013 - Each tower modules contains 6 motors
1	Tower#2 East Penthouse	Tower tech	TTXL-061950-4	TTXL- 2012-067- 13-02	Date of Manufacture: 01- 24-2013 -Each tower modules contains 6 motors
1	Tower#3 Westside of East Penthouse	Tower tech	TTXL-061950-4	TTXL- 2012-067- 13-03	Date of Manufacture: 01- 24-2013 -Each tower modules contains 6 motors
1	Tower#4 Westside of East Penthouse	Tower tech	TTXL-061950-4	TTXL- 2012-067- 13-04	Date of Manufacture: 01- 24-2013 -Each tower modules contain 6 motors
1	East Penthouse	Danfoss VFD	177U5933	443804Y0 53,	
1	East Penthouse	Danfoss VFD	177U5933	443904Y0 53	
1	West Penthouse	Danfoss VFD	177U5933	444004Y0 53	
1	West Penthouse	Danfoss VFD	177U5933	444104Y0 53	

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

6. CHAMBERS BUILDING 40 ELGIN ST. OTTAWA, ON

Units	Location Room No.	Make	Model	Serial No.	Details
1	9th floor Room # 909	Hiross	HS-009	N/A	Data center
1	9th floor Room # 909	Hiross	SH070W	N/A	Data center
1	9th floor Room # 907	Hiross	SH030W	N/A	Data center
1	9th floor Room # 903			N/A	Located in closet
2	9th floor Room # 909 CA2 & AC3	Ecosaire	S.SMOB030WZ656 FIFSKOT	N/A	TC = 88,000 Btu/Hr Hum =11.0 lbs/hr 3600 CFM
1	9th floor Room # 909 AC1	Ecosaire	S.SMOB030WZ656 FIFSKOT	N/A	200CFM Hum =11.0 lbs/hr 38,000 Btu/hr
1	FPB-701 (S-2)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-702 (S-1)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-703 (AA-2)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-704 (AA-1)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-705 (S-3)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-706 (AA-3)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-707 (S-4)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-708 (AA-5)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-709 (AA-5)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-710 (S-5)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-711 (AA-6)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-712 (S-6)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-713 (R-7)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-714 (S-7)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-715 (AA-8)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-716 (S-8)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-717 (S-9)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	FPB-718 (AA-9)- 7th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling

Solicitation No. - N° de l'invitation
EJ196-212438/A
Client Ref. No. - N° de réf. du client
EJ196-212438

Amd. No. - N° de la modif.
007
File No. - N° du dossier
FK301. EJ196-212438

Buyer ID - Id de l'acheteur
FK301
CCC No./N° CCC - FMS No./N° VME

1	FPB-619 (RS) - 6th Floor	Fan Power Box	N/A	N/A	These are up in the ceiling
1	COND-600- 6th Floor	LG Multi Zone Condenser	ARWN072BAS4	802KCDG14P15	N/A
1	EV-604 - 6th Floor	Evaporator Unit	ARNU323SVA4	711KCVU13C47	N/A
1	EV-603 - 6th Floor	Evaporator Unit	ARNU123BGA4	704KCVU0X959	N/A
1	EV-602 - 6th Floor	Evaporator Unit	ARNU153BGA4	610KCKJ0TY57	N/A
1	EV-601 - 6th Floor	Evaporator Unit	ARNU153BGA4	704KCHE0X961	N/A
1	COND-700 - 7th Floor	LG Multi Zone Condenser	ARWN072BAS4	802KCMR14P14	N/A
1	EV-702 - 7th Floor	Evaporator Unit	ARNU323SVA4	704KCYQ0X962	N/A
1	EV-703 - 7th Floor	Evaporator Unit	ARNU123BGA4	712KCRN02182	N/A
1	EV-701 - 7th Floor	Evaporator Unit	ARNU153BGA4	610KCMR0TY55	N/A
2	7th Floor	Manitowoc Ice Machine	IDT1500A-261	1120434445	N/A
1	6 th Floor	Manitowoc Ice Machine	SPA310	1120379338	N/A
1	Garage	CBRN Unit (Certified Oct 16, 2020)	CF-1X3-TSU14-1GB-SAFESCA	CBRN (J66930)	Pre- 3(24x24x2) Hepa- 3(24x24x12)

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EJ196-212438/A
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FK301. EJ196-212438

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7. SUPREME COURT, 345 WELLINGTON, OTTAWA, ON

Units	Location Room No.	Make	Model	Serial No.	Details
1	Lan Room	Ecosaire	UE28D5EGB2EB	73005-A1	25-025-001
1	UPS Room	Movincool	Office Pro 60	2170149600	25-025-002
1	Basement in front of MCC	York	D1NA036N07225C	N0K5965584	25-025-003
1	342 elevator mechanical room roof	Mitsubishi Electric	PUY-A24NHA4	1XU04977A	25-025-004
1	345 elevator mechanical room roof	Mitsubishi Electric	PUY-A24NHA4	1XU04977A	25-025-005
1	Judges elevator mechanical room	Mitsubishi Electric	PUY-A24NHA4	1XU04986A	25-025-006
1	Stack elevator mechanical room	Fujitsu	AOU12CQ	BDN036553	25-025-007
1	Audio Visual Room 137	Friedrich	CP24G30A	n/a	25-025-008
1	Audio Visual Room 137	Friedrich	CP24G30A	n/a	25-025-009
1	Lan Room	Movincool	Office Pro 60	10140690600	25-025-010
1	West Guard Hut	LG	LW8016ERY7	n/a	25-025-011
1	East Guard Hut	Friedrich	CPO5G10B	n/a	25-025-012
1	RCMP Down Room	Friedrich	CP12G10B	n/a	25-025-013
1	West Sub- basement tunnel	Movincool	24HFU-1	0496 0156 24I	25-025-014
1	UPS Room	Movincool	Office Pro 24	1090026240	25-025-015
1	UPS Room	Movincool	Classic Plus 26	4120486260	25-025-016

APPENDIX "B"

Emergency Response Plan

1010 Somerset St. Ottawa, Ontario

Nearest Hospital; **CIVIC Hospital**

In case of minor injury

For minor injuries, provide immediate 1st aid and record.

In case of serious injury

1) TAKE COMMAND

Assign duties to specific personnel.

For Instance:

One Person gets first aid kit one-person clear area of unneeded personnel

2) PROVIDE PROTECTION

Protect the accident scene from continuing or further hazards.

For Instance:

Traffic, operating Machinery, if qualified - live electrical wires....

3) GIVE FIRST AID

Give first aid to the injured as soon as possible.

4) CALL AN AMBULANCE

From a Closest phone Call # 991-7288 that will put you in contact with the Commissionaires office tell them the Emergency, who you are and where you are.

5) GUIDE THE AMBULANCE

Have someone Meet and direct the ambulance to the accident scene.

6) GET NAME OF HOSPITAL

For follow-up, find out where the Injured is being taken.

7) ADVISE MANAGEMENT

Inform on Site PWGSC Representative and then Technical Authority.

They can then contact relatives, notify authorities, and start procedures for reporting and investigating the accident.

8) ISOLATE THE ACCIDENT SCENE

Barricade, rope off or post a guard at the scene to make sure that nothing Is moved or changed until authorities have completed their investigation.

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ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED