



RETURN BIDS TO:

RETOURNER LES SOUMISSIONS À:

Bid Receiving Public Works and Government
Services Canada/Réception des soumissions Travaux
publics et Services gouvernementaux Canada
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British Columbia
V6Z 0B9
Bid Fax: (604) 775-9381

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
Public Works and Government Services Canada - Pacific
Region
800 Burrard Street, Room 219
800, rue Burrard, pièce 219
Vancouver
British C
V6Z 0B9

Title - Sujet Mechanical System Upgrades	
Solicitation No. - N° de l'invitation EZ899-181194/A	Amendment No. - N° modif. 005
Client Reference No. - N° de référence du client	Date 2017-10-13
GETS Reference No. - N° de référence de SEAG PW-\$PWY-020-8179	
File No. - N° de dossier PWY-7-40194 (020)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2017-10-20	Time Zone Fuseau horaire Pacific Daylight Saving Time PDT
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Ly, Ronny(PWY)	Buyer Id - Id de l'acheteur pwy020
Telephone No. - N° de téléphone (604) 318-5750 ()	FAX No. - N° de FAX (604) 775-6633
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: CSC - Kent Institution - Agassiz, BC	

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

EZ899-181194/A

Client Ref. No. - N° de réf. du client

Amd. No. - N° de la modif.

005

File No. - N° du dossier

PWY-7-40194

Buyer ID - Id de l'acheteur

pwpy020

CCC No./N° CCC - FMS No./N° VME

AMENDMENT 005

Amendment 005 has been raised to incorporate Addendum No 1.

All other terms and conditions remain unchanged.

THE FOLLOWING CHANGES IN THE TENDER DOCUMENTS ARE EFFECTIVE IMMEDIATELY.
THIS ADDENDUM WILL FORM PART OF THE CONTRACT DOCUMENTS.

ADDENDUM #1

1. Refer to Tender Mechanical Drawings M4-01:

1. Revise mechanical equipment room (J&K) HVAC system as shown clouded on the details No. 2, A, B, C and D of the attached drawing

2. Refer to Tender Mechanical Drawings M5-01:

1. Revise mechanical details for AHU-1(Living Unit J) as shown clouded on the attached drawing.
2. Add mechanical details for AHU-2 (Living unit K) as shown clouded on the attached drawing.

3. Existing Ductless Split Systems in Rooms No. J220, K220 and K221. Read in Conjunction with Tender Mechanical Drawings M4-01 Detail No. 1 and M6-01 Schedule for Split System:

1. Replace existing DX Split system in Rooms J220, K220 and K221 with new indoor ductless split system.
 - (1) Provide Demolition of existing refrigerant piping.
 - (2) Provide new refrigeration piping complete with insulation.
 - (3) Run new refrigerant piping up to mechanical rooms J and K, and from mechanical rooms to the roof as shown on the detail No. 1 on the attached drawing M4-01. Allow for approximately a total of 150 meter for each refrigerant Liquid Line and Suction Line.
 - (4) Connect new condensate pipe of each indoor units to exiting condensing pipe in the ceiling space.
 - (5) Retain existing control sequence and modify to suit the new units. Allow for re-and-re of the existing control wirings to the new split systems.
 - (6) Disconnect and demolish existing power cable feeding the condensing unit (CU) of living unit J. Existing CU is fed from living unit J MCC - panel A4X 20A, 208V, 1Ph branch circuit breaker. Source to remain as is. Provide new feeder cable 3#10AWG+G in 21mmC from living unit J MCC to feed the new CU. Condensing unit CU sub-feeds the AC unit inside. Electrical contractor is responsible for the wiring between CU and AC unit. Mechanical contractor is responsible for any control wiring.

- (7) Disconnect and demolish existing power cable feeding the condensing unit (CU) of living unit K. Existing CU is fed from living unit K MCC 20A, 208V, 1Ph branch circuit breaker. Source to remain as is. Provide new feeder cable 3#10AWG+G in 21mmC from living unit K MCC to feed the new CU. Condensing unit CU sub-feeds the AC unit inside. Electrical contractor is responsible for the wiring between CU and AC unit. Mechanical contractor is responsible for any control wiring.

4. Refer to Tender Mechanical Drawings M2-01 and Item 3 above:

1. Add demolition of condensing units for J & K building as shown clouded on detail No. 1 on the attached drawing.

5. Read in Conjunction with Drawing M3-05 for Vestibule No. 100, Living Units A to H:

1. Demolish existing cabinet unit heaters in the vestibule (Room # 100) of each Living Units A to H (total of 8). Retain existing piping. Refer to attached Picture No. 4.
2. Provide new recessed cabinet unit heaters (total of 8 units) to fit in the same opening. Provide new isolation valves and connect to existing piping. Repair damaged insulation. Make good of the recessed opening to match existing.
3. Retain existing control valves and sequence of operation. Modify to suit the new units. Allow for re-and-re of the existing control wirings to the new cabinet units heaters.

6. Refer to Tender Mechanical Drawings M6-01:

1. Add mechanical schedule for new split systems and cabinet unit heaters as shown clouded on the attached drawing.

7. Refer to Tender Mechanical Drawings M9-03:

1. Add detail "E" for return air grilles at upper levels of Living Units A to H as shown clouded on the attached drawing.

8. Read in conjunction with Architectural Drawings A4-02:

1. Construction Scope Legend **C2**:

(1) Clarification- Reference to Detail No. 2 on A012 should read Detail No. 2 on A4-02

2. Clarification: Detail No. 1B on A302 should read Detail No. 1B on A4-02

9. Read in conjunction with Architectural Drawings A4-06:

1. Clarification: Reference to Detail No. 4 on A305 should read Detail No. 4 on A4-06

10. Read in conjunction with Architectural Drawings A4-00 and A4-05, and Plumbing Drawings P3- 00 and P3-03:

1. Add Segregation Room K-215 to the renovation scope (refer to Drawings A4-00 / P3-00 for location of Room K-215). Room K-215 scope of work shall be identical to Staff Washroom J-215 (refer to drawings A4-05 and P3-03 for details).

11. Refer to Tender Specifications Section 22 42 00 subsection 2.7 Showers.

1. Touch Sensor Solenoid Valve and Battery systems: Acceptable Materials shall be "ICON".
2. CLARIFICATION: Wall mount single door (steel) enclosure shall be surface mount type.
3. CLARIFICATION: Secure low-voltage wiring to wall, and run in neat manner parallel to building lines.

Questions Submitted to PSPC

Question # 1

On Mechanical drawing M8-01 there are a number of control valves with designations CV-S_ and CV-__ that are not shown on the control valve schedule on mechanical drawing M6-02. Are these to be replaced and if so what are the specifications for them?

ANSWER # 1:

Drawing M8-01 is for Isolation Valves Replacement/Addition part of the work. Controls valves referred to are not in scope of this project.

Question # 2

Request for equal:

Air Handling Unit: Specified Haakon, Request for Equal: Ventus VTS
Air Handling Unit: Specified Trane, Request for Equal: First Company
Hot Water Reheat Coils: Request for Equal: Direct Coils
Wall Fin Heaters: Request for Equal: Sigma
Hot Water Unit Heaters: Request for Equal: Sigma
Fan Coils: First Company

ANSWER # 2:

Air Handling Unit - Ventus VTS: Not Acceptable
Air Handling Unit (AHU-3) First Company: Acceptable
Hot Water Reheat Coils- Direct Coils: Acceptable
Wall Fin Heaters- Sigma: Acceptable
Hot Water Unit Heaters- Sigma: Acceptable
Fan Coils- First Company: Fan-coils not in scope of this project.

Acceptable material should meet or be better than specified in contract documents.

Question # 3

Request for equal:

Air Handling Unit- Request for Equal: Scott Springfield Custom Air Handling

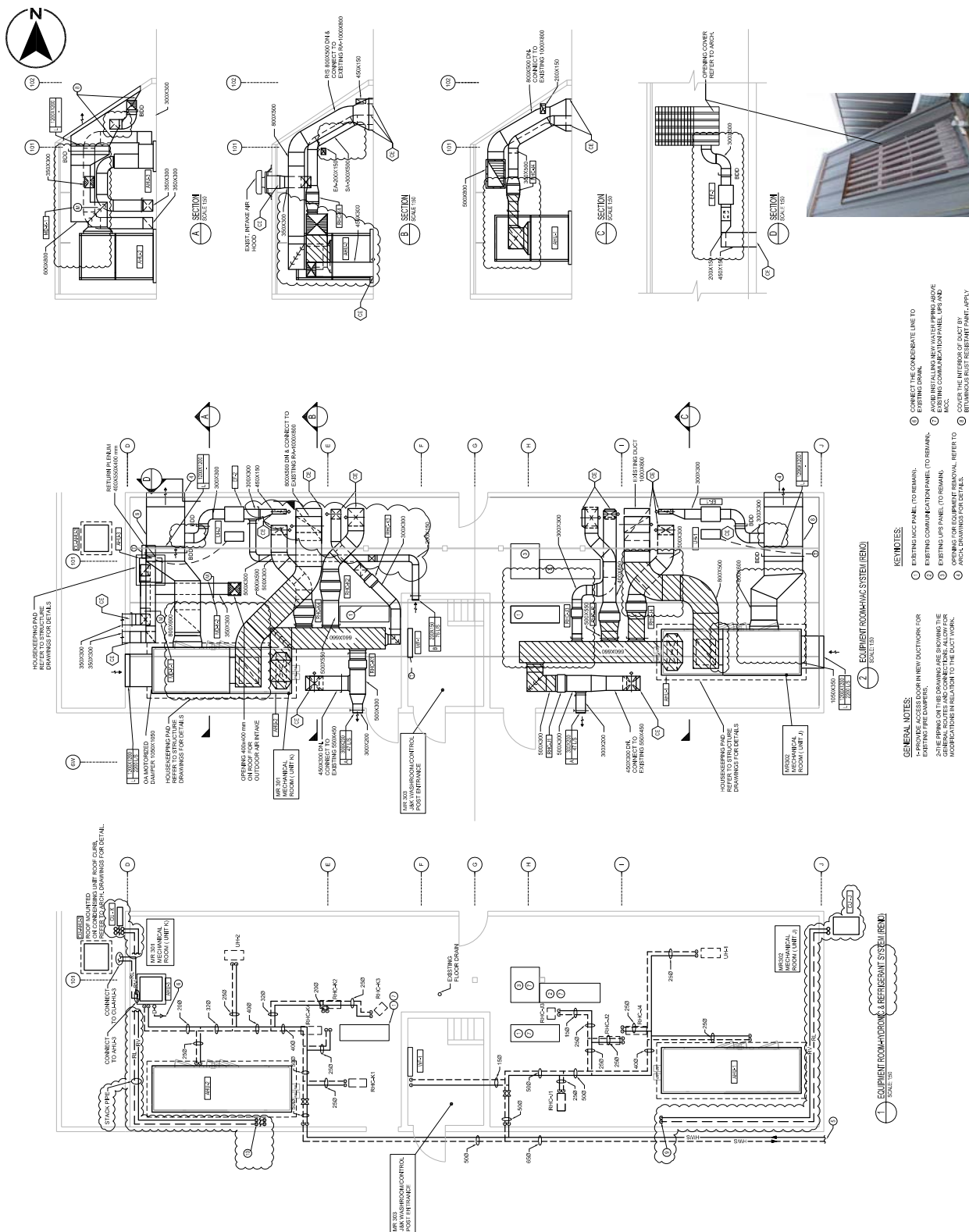
Air Handling Unit -Request for Equal: Daikin Vision Semi-Custom Air Handling

ANSWER # 3:

Air Handling Unit - Scott Springfield: Not Acceptable

Air Handling Unit – Daikin Vision: Not Acceptable

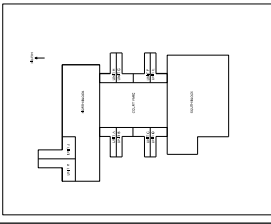
END OF ADDENDUM #1



- [illegible]



PROJECT #151-55897-02



GENERAL NOTES:

1. REFER TO GENERAL INSTRUCTION TO BIDDERS FOR APPROVAL OF ALTERNATIVE MATERIALS.

[illegible]

Topic	JCF	SOUND POWER LEVELS (dB)									
		SAN	1	2	3	4	5	6	7	8	
A44-1 TO A44-1-1	SA	PERG	43	45	255	50	5000	2000	4000	1000	
			31	52	60	73	72	64			
			76	78	87	85	73	72	88	61	
		CA	75	77	60	61	74	73	85	62	
A44-1-2	SA		40	77	60	64	77	72	64		
			SA	71	70	60	61	76	74	88	61
			SA	75	76	60	61	79	78	88	60
		CA	77	76	67	61	76	73	85	61	

WALL FIN HEATER									
GEAR PUMP	QTY	LOCATED	NUMBER OF ZONES	WATER FLOW RATE (GPM)	WATER SUPPLY TEMP (°F)	WATER RETURN TEMP (°F)	WATER PRESSURE (PSI)	WATER FLOW RATE (GPM)	WATER PRESSURE (PSI)
W-1	1	1A-A CORRIDOR		1.04	180°C (356°F)	140°C (284°F)	0.5	1.04	0.5
W-2	3	2A-B CORRIDOR		0.6	180°C (356°F)	140°C (284°F)	0.5	0.6	0.5
NOTE: 1-CORRECTION FACTOR FOR COMBUSTION UNIT SELECTED									

CONDENSING UNITS		CONDENSING UNITS		CONDENSING UNITS	
EXHHAUST QTY	CONDENSATE REMOVAL SYSTEM	CONDENSATE (GPH)	WATER (GPH)	EXHAUST QTY	CONDENSATE REMOVAL SYSTEM
CHILLERS	ROOF	2	220 (100)	EXHAUST WITH 4" AND 3" IN-LINE UNIT, 4" AND 3" REPRESENT CONDENSATE UNIT	
CHILLERS	ROOF	2	220 (100)	EXHAUST WITH 4" AND 3" IN-LINE UNIT, 4" AND 3" REPRESENT CONDENSATE UNIT	

EXHAUST FANS										ACCESSORIES		
EXHAUST FAN	QTY	CONNECTION	WALL OR CEILING	ACCOPLER/ADAPTERS	TYPE	SIZE	EX. AIR	IN	EX. AIR	IN	EX. AIR	IN
EX-A-1 TO EX-A-4	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-5 TO EX-A-8	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-9 TO EX-A-12	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-13 TO EX-A-16	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-17 TO EX-A-20	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-21 TO EX-A-24	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-25 TO EX-A-28	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-29 TO EX-A-32	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-33 TO EX-A-36	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-37 TO EX-A-40	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-41 TO EX-A-44	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-45 TO EX-A-48	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-49 TO EX-A-52	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-53 TO EX-A-56	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-57 TO EX-A-60	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-61 TO EX-A-64	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-65 TO EX-A-68	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-69 TO EX-A-72	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-73 TO EX-A-76	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-77 TO EX-A-80	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-81 TO EX-A-84	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-85 TO EX-A-88	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-89 TO EX-A-92	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-93 TO EX-A-96	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-97 TO EX-A-100	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-101 TO EX-A-104	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-105 TO EX-A-108	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	
EX-A-109 TO EX-A-112	1	EXHAUST TO HUB UNIT (1/2" IN)		CONFL. 50	CONFL. 50	50	50	1/4	120/60	47	120/5	

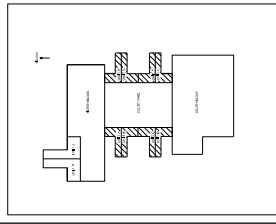
RETURN FANS									
EQUIPMENT	QTY	LOCATION	DATE OF DELIV.	CONCRETE MATERIAL	TYPE	QTY	DATE OF DELIV.	DATE OF DELIV.	QTY
RETURN TO REPAIR	0	REPAIR SHOP	1/1/70		1/1/70	1/1/70	1/1/70	1/1/70	1/1/70
<p>1. RETURN TO REPAIR SHOP</p> <p>2. RETURN TO REPAIR SHOP</p> <p>3. RETURN TO REPAIR SHOP</p> <p>4. RETURN TO REPAIR SHOP</p> <p>5. RETURN TO REPAIR SHOP</p>									

[illegible]

CABINET UNIT HEATERS									
MODEL NO.	QTY.	LOCATION	DATE OF INSTALLATION	MANUFACTURER'S NAME	MANUFACTURE DATE	TEST DATE	TESTING INSTRUMENT	TESTING PERSON	REMARKS
1200-04	1	10th FLOOR (10th FLOOR)	02/07/2012	WATSON	02/07/2012	02/07/2012	98	3210108	-
1200-05	1	10th FLOOR (10th FLOOR)	02/07/2012	WATSON	02/07/2012	02/07/2012	98	3210108	-

NOTE:
 1. THE TESTING INSTRUMENTS USED IN THE TEST.

[illegible][illegible][illegible]



1	ISSUED FOR ADJUDIC. 01	2017.06.13
1	ISSUED FOR TENDER	2017.08.16
Finalized Bidding	Contract/Quotation	2017.09.08

**CORRECTIONAL
SERVICE OF
CANADA**

Project #14-7100-01

AGASSIZ, BC
KENT MAXIMUM SECURITY
INSTITUTION

**MECHANICAL SYSTEM
UPGRADE FOR CELL BLOCKS**

710 日本経済新聞 2010年10月20日

Designed by/Concept by

Organ for/Outside of

TJW

MARVIN NG
Ph.D., Assistant Professor, Architecture Department, University of Illinois at Chicago

PREETPAL PAUL

**SECURITY GRILLES REPLACEMENT
FOR LIVING UNITS A TO H
SECTIONS (DEMO & RENO)**

Project No./Rev. 31 project	Sheet/Total 10 of 10	Revision No./ 1. 11. 2000 rev.
R.077723.001	M9-03	1

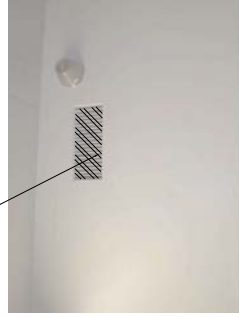
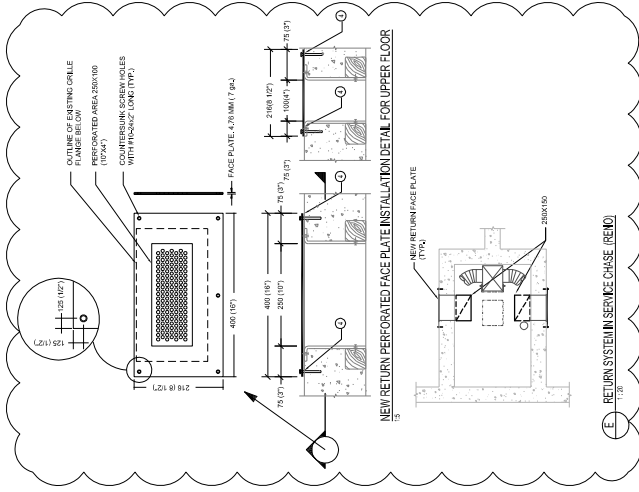


PHOTO-1 SHOWING RETURN GRILLE DEMO

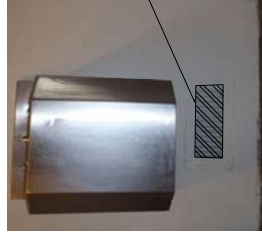
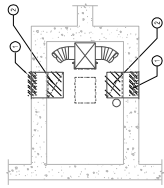
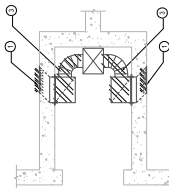


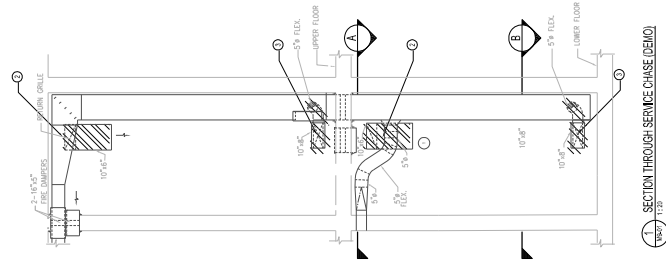
PHOTO-2 SHOWING SUPPLY GRILLE DEMO



Ⓐ DEMO PLAN • RETURN



DEMO DI UN CIRCUITO

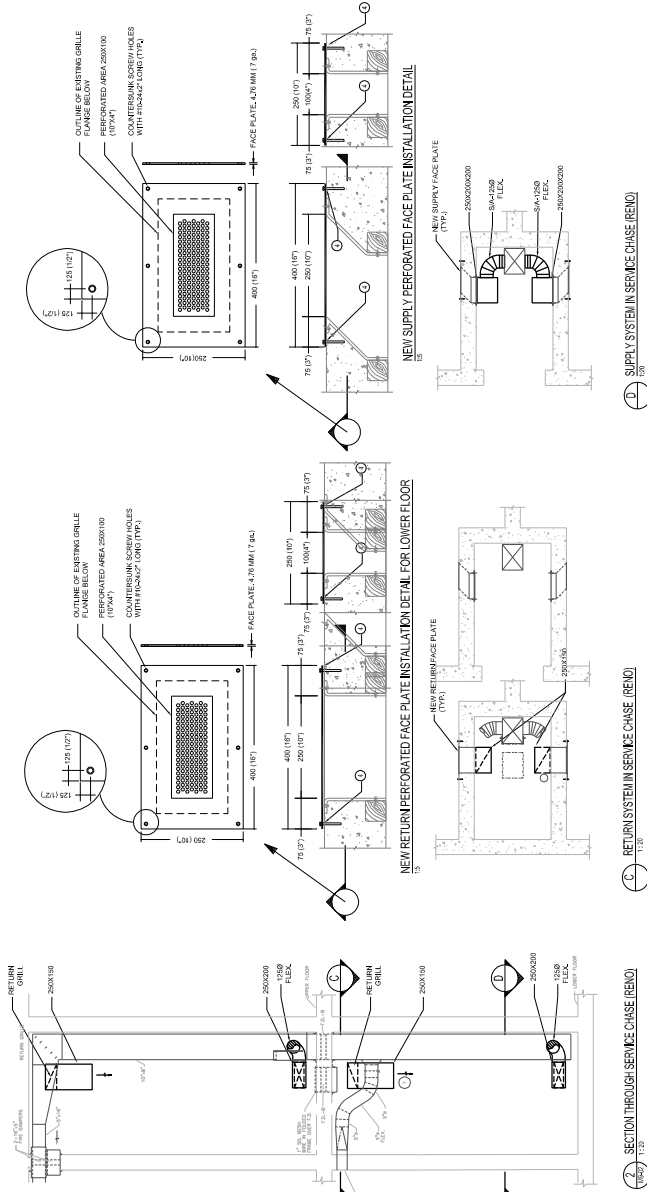


GENERAL NOTES

1-BEFORE ORDERING THE GRILLES, MAKE A PROTOTYPE WITH PANEL BOARD FOR APPLICABLE SIZE OF GRILLES AND APPROVAL.

KEY NOTES

- ① DEMOLISH THE BLADES FROM EXISTING RETURN AND SUPPLY GRILLE, SEE PHOTO-142.
- ② DEMOLISH RETURN DUCT.
- ③ DEMOLISH SUPPLY DUCT.
- ④ APPLY PICK-PROOF AND TAMPER-PROOF SECURITY SEALANT WITH SHORE HARDNESS OF NOT LESS THAN 70 ALL AROUND AND BELOW THE GRILLES FLANGE IN CONTACT WITH CONCRETE.



2 SECTION THROUGH SERVICE CHASE (RENO)

C RETURN SYSTEM IN SERVICE CHASE (RENO)

D SUPPLY SYSTEM IN SERVICE CHASE (RENO)



PICTURE NO. 1 - EXISTING INDOOR AC UNIT IN ROOM 220K



PICTURE NO. 2 - EXISTING INDOOR AC UNIT IN ROOM 221K



PICTURE NO. 3 - EXISTING INDOOR AC UNIT IN ROOM 220J



PICTURE NO. 4 - EXISTING CABINET UNIT HEATER IN ROOM 100 IN EACH LIVING UNIT A TO H