

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Bid Receiving - PWGSC / Réception des soumissions
- TPSGC
11 Laurier St./11 rue Laurier
Place du Portage, Phase III
Core 0B2 / Noyau 0B2
Gatineau, Québec K1A 0S5

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
CE DOCUMENT COMPORTE DES EXIGENCES
RELATIVES À LA SÉCURITÉ/THIS DOCUMENT
CONTAINS A SECURITY REQUIREMENT

Vendor/Firm Name and Address
Raison sociale et adresse du
fournisseur/de l'entrepreneur

Issuing Office - Bureau de distribution
Construction Services Division/Division des services de
construction
11 Laurier St./11 Rue Laurier
3C2, Place du Portage
Phase III
Gatineau, Québec K1A 0S5

Title - Sujet CD Howe Aménagement/Refit	
Solicitation No. - N° de l'invitation EP067-151357/A	Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client 20151357	Date 2015-01-22
GETS Reference No. - N° de référence de SEAG PW-\$\$\$FG-340-66468	
File No. - N° de dossier fg340.EP067-151357	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2015-02-03	Time Zone Fuseau horaire Eastern Standard Time EST
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: Brouillet, Richard	Buyer Id - Id de l'acheteur fg340
Telephone No. - N° de téléphone (819) 956-0457 ()	FAX No. - N° de FAX (819) 956-8335
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: Édifice CD Howe/ CD Howe Building 235 rue Queen Street Ottawa, ON K1A 0H5	

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

EP067-151357/A

Amd. No. - N° de la modif.

003

Buyer ID - Id de l'acheteur

fg340

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

20151357

File No. - N° du dossier

fg340EP067-151357

CCC No./N° CCC - FMS No/ N° VME

AMENDMENT 3 IS RAISED TO ATTACH ADDENDUM 2 AND 3

EXTENSION TO BID CLOSING DATE

Please note that the tender closing date for this project is hereby EXTENDED from **January 27, 2015 at 2:00 p.m. to February 3, 2015 at 2:00 p.m.**

CLAUSES AND CONDITIONS REMAIN THE SAME

Project Number: R.064703.002

The following changes in the bid documents are effective immediately. This addendum will form part of the contract documents. See also Mechanical Addendum no. 2 dated January 15, 2015.

DRAWINGS

1. A111 DEMOLITION PLANS A & B

1. Refer to **DRAWING NOTES, A111-A & B:**

DELETE Drawing Note 1, and **REPLACE** with the following:

1. REMOVE EXISTING PLENUM BARRIER ABOVE CEILING GRID. (GYPSUM BOARD/STEEL STUDS/GYPSUM BOARD).

DELETE Drawing Note 2, and **REPLACE** with the following:

2. REMOVE EXISTING SLAB TO U/S CEILING PARTITION. (GYPSUM BOARD/STEEL STUDS/GYPSUM BOARD) INCLUDING FLOOR BASE, WALL MOUNTED ACCESSORIES, DOORS, FRAMES, & SIDELIGHTS

DELETE Drawing Note 3, and **REPLACE** with the following:

3. REMOVE EXISTING SLAB TO U/S CEILING GRID PARTITION. (GYPSUM BOARD/STEEL STUDS/GYPSUM BOARD) INCLUDING FLOOR BASE, WALL MOUNTED ACCESSORIES, DOORS, FRAMES, & SIDELIGHTS; REMOVE METAL SECURITY MESH BARRIER IN CEILING

DELETE Drawing Note 4, and **REPLACE** with the following:

4. REMOVE EXISTING SLAB TO SLAB PARTITION, (METAL MESH GYPSUM BOARD/STEEL STUDS/BATT INSULATION/GYPSUM BOARD) INCLUDING DOORS, FRAMES, & SIDELIGHTS.

DELETE Drawing Note 14, and **REPLACE** with the following:

14. EXISTING DRINKING FOUNTAIN TO REMAIN; CONTRACTOR RESPONSIBLE TO PROVIDE PROTECTION THROUGHOUT THE CONSTRUCTION OF THE PROJECT; ANY DAMAGE WILL REQUIRE FIXTURE REPLACEMENT AT CONTRACTOR'S COST

DELETE Drawing Note 22, and **REPLACE** with the following:

22. REMOVE CERAMIC FLOOR TILE AND FLOOR TO CEILING CERAMIC WALL TILE ON ALL WASHROOM INTERIOR PARTITIONS.

ADD Drawing Note 23 with the following:

23. EXISTING MILLWORK TO BE REMOVED, UPPER & LOWER CABINETS AND COUNTER.

ADD Drawing Note 24 with the following:

24. REMOVE ALL VINYL WALL COVERINGS. TYPICAL

ADD Drawing Note 25 with the following:

25. REMOVE BOTH (2) SPEAKER COVERS AND SPEAKERS.

ADD Drawing Note 26 with the following:

26. REMOVE BASE ON EXISTING BASE BUILDING WALLS, EXISTING WALLS TO REMAIN.

ADD Drawing Note 27 with the following:

27. EXISTING 5 GLAZED PANELS AND 6 MULLIONS TO REMAIN.

ADD Drawing Note 28 with the following:

28. REMOVE DOOR, FRAME AND HARDWARE, PROTECT AND STORE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

.2 Refer to **GENERAL NOTES, A111-A & B:**

DELETE General Note A, and **REPLACE** with the following:

A. NOT USED

DELETE General Note B, and **REPLACE** with the following:

B. UNLESS OTHERWISE NOTED ALL EXISTING PARTITIONS ARE FLOOR TO U/S CEILING DE-MOUNTABLE PARTITIONS (SOLID OR GLAZED). REMOVE ALL PARTITIONS INCLUDING FLOOR BASE, WALL MOUNTED ACCESSORIES, DOORS, FRAMES, & SIDELIGHTS.

.3 Refer to Detail **1/A111** (specifically the revision cloud at grid D4, and the two additional revision clouds), sketch ADD2-SK1 (attached):

ADD drawing note 7, as shown in the revision cloud at grid D4 in sketch ADD2-SK1.

ADD floor and wall mounted wooden filing cabinets for demolition and drawing note 7, as shown in sketch ADD2-SK1.

ADD floor and wall mounted millwork for demolition and drawing note 23, as shown in sketch ADD2-SK1

.4 Refer to Detail **2/A111** (specifically the revision cloud between grids E2 and G4), sketch ADD2-SK2 (attached):

ADD notes 1 & 2, as shown in sketch ADD2-SK2.

.5 Refer to Detail **2/A111** (specifically the revision cloud to the right of grid 4 between grids E and G), sketch ADD2-SK2 (attached):

DELETE existing partition to remain, **REPLACE** with existing partition to be demolished.

ADD note 4, as shown in sketch ADD2-SK2.

.6 Refer to Detail **2/A111** (specifically the revision cloud between grids 4 and 5), sketch ADD2-SK2 (attached):

NOTE change in configuration of partitions to be demolished

.7 Refer to Detail **3/A111** (specifically the revision cloud above grid E between grids 9 and 10), sketch ADD2-SK3 (attached):

ADD note 27, as shown in sketch ADD2-SK3.

- .8 Refer to Detail **3/A111** (specifically the revision cloud to the right of grid 10), sketch ADD2-SK3 (attached):
NOTE: door to be removed,
ADD note 28, as shown in sketch ADD2-SK3.

2. A121 CONSTRUCTION PLANS A & B

1. Refer to **DRAWING NOTES, A121-A & B:**
DELETE Drawing Note 25, and **REPLACE** with the following:
25. SKIM COAT AREA OF REVEAL ON EXISTING BASE BUILDING PARTITION SURFACE IN PREPARATION TO RECEIVE NEW PAINTED FINISH. TYPICAL
DELETE Drawing Note 26, and **REPLACE** with the following:
26. FILL HOLES LEFT FROM WALL SPEAKER REMOVAL, MAKE READY FOR ADDITIONAL LAYER OF GYPSUM WALL BOARD.
ADD Drawing Note 32 with the following:
32. SKIM COAT EXISTING BASE BUILDING PARTITION SURFACE IN PREPARATION TO RECEIVE NEW PAINTED FINISH.
- .2 Refer to Detail **1/A121** (specifically the revision cloud above grid E), sketch ADD2-SK4 (attached):
ADD note 25, as shown in sketch ADD2-SK4.
- .3 Refer to Detail **1/A121** (specifically the revision cloud to the right of grid 10), sketch ADD2-SK4 (attached):
ADD note 32, as shown in sketch ADD2-SK4.
- .4 Refer to Detail **2/A121** (specifically the revision cloud above grid E), sketch ADD2-SK5 (attached):
ADD notes 25 & 26, as shown in sketch ADD2-SK5.
- .5 Refer to Detail **2/A121** (specifically the revision cloud to the right of grid 4), sketch ADD2-SK5 (attached):
ADD partition indicator P2, note new partition to be constructed, as shown in sketch ADD2-SK5.
- .6 Refer to Detail **2/A121** (specifically the revision cloud to the right of grid 10), sketch ADD2-SK5 (attached):
ADD door D159.1 as shown in sketch ADD2-SK5.

3. A131 REFLECTED CEILING PLAN - DEMOLITION A & B

- .1 **ADD** drawings: REFLECTED CEILING PLAN - DEMOLITION A & B

4. **A504 TYPICAL MILLWORK DETAILS**

1. Refer to **DETAIL 10/A504**:
DELETE NOTE 33 **REPLACE** with NOTE 34:
2. Refer to **DETAILS 1/A504 TO 10/A504**:
DELETE NOTE 32 **REPLACE** with NOTE 33:
3. Refer to **DRAWING NOTES, A504 NOTE 12**:
DELETE the words WHITE MELAMINE and **REPLACE** with the following:
WHITE PLASTIC LAMINATE
4. Refer to **DRAWING NOTES, A504 NOTE 33**:
DELETE the word MELAMINE and **REPLACE** with the following:
LAMINATE

5. **A505 DOOR SCHEDULE, DOOR ELEVATIONS**

1. REFER TO THE DOOR SCHEDULE:
DELETE D159.0 NOT IN USE AND **REPLACE** WITH:

DOOR#	FROM	TO	DOOR		HEIGHT	THICK	MAT.	FINISH	FRAME		MAT	FINISH	HAND	FIRE RATING (HR)	HARD- WARE
			TYPE	WIDTH					TYPE						
D159.1	1 EAST	1W120	4	2 X 1066	2134	45	METAL	P9	C	PS	P9	LH	1.5 HR	H12	

2. **DELETE** Line E171.1

6. **A506 BASE BUILDING & TELECOM ROOM DETAILS**

DELETE DETAIL 1/A506 AND **REPLACE** WITH:
DETAIL 1/A506 as shown in sketch ADD2-SK6

SPECIFICATIONS

1. Section 01 00 10 **GENERAL INSTRUCTIONS**

1. Refer to **Page 6 1.11. TEMPORARY BARRIERS AND ENCLOSURES**
 - .1 Protection:
 - .3 Protect adjacent areas and floors against the spread of dust and dirt beyond the work areas:
ADD the following sentence:
 - .1 Erect temporary barrier between existing office space and the existing glazed partition to be removed. See drawing A111-B note 16 and 27 for specific location. Provide 3 weeks' notice to the departmental representative prior to the commencement of the erection of this barrier.

2. Section 01 14 25 **DESIGNATED SUBSTANCE REPORT**

1. **DELETE** and **REPLACE** with attached updated report.
3. **Section 02 41 99 DEMOLITION FOR MINOR WORKS**
 1. Refer to **Page 3 PART 3.2 PREPARATION**, paragraph 1, sentence 5.
ADD the following phrase to the end of the sentence:
"and Section 010010 General Instructions 1.11 Temporary Barriers and Enclosures."
4. **Section 06 40 00 ARCHITECTURAL WOODWORK**
 1. Refer to Paragraph **2.5 CABINET HARDWARE**
ADD the following sentence:
.7 "Drawer slides: heavy duty, type B05051, with zinc plate finish, full extension, lift off rail, 34 kg rating, steel ball bearing rollers."
5. **Section 08 14 16 FLUSH WOOD DOORS**

Refer to **Page 3, LINE 2.1.1.5**
DELETE the word Oak and **REPLACE** with the following:
MAPLE
6. **Section 08 71 00 DOOR HARDWARE**
 1. **DELETE** Paragraph 2.3 **CABINET HARDWARE**
7. **Section 09 91 23 INTERIOR PAINTING**
 1. Refer to **Page 8**
ADD the following paragraph and sentences:
2.7. Special Finishes
 - .1 Powder coat paint for new replacement base plate covers on perimeter convectors.(Qty: 130) Refer to Finishes Drawing A142-A and B for colour selection.
8. **Section 09 91 23.01 INTERIOR RE-PAINTING**
 - .1 Refer to **Part 2.5 Interior Painting Systems**, page 6, line 2.5.2
DELETE the word **COVERS** and **REPLACE** with:
FRAMES
 - .2 Refer to page 7, line 2.5.5
DELETE the first sentence and **REPLACE** with the following:
RIN 6.3 - Dressed Lumber: (Including Doors, Door and Window Frames, and Mouldings, and plastic wall and door framing trim, and vinyl wall covering).

- .3 Refer **Page 7**.
ADD the following paragraph and sentences:
2.6 Special Finishes
1. Powder coat paint for existing convector covers, removed for finishing off site. (Qty 130) Refer to Finishes Drawings A142-A and B for colour selection.
- .4 Refer to **Part 3.3 Preparation**, page 8 line 3.3.1.1
DELETE the word REPAINT and **REPLACE** with:
POWDER COAT.
- .5 Refer to **Part 3.3 Preparation**, page 8 line 3.3.4, last sentence
DELETE the word COVERS and **REPLACE** with:
ENCLOSURES.

END OF ADDENDUM NO. 2

C.D. HOWE BUILDING, OTTAWA, ON
1W FIT UP AND M&E UPGRADE

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PROJECT NO. R.064703.002

DATE: January 19, 2015

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

1. SECTION 21 13 13 - WET PIPE SPRINKLER SYSTEMS

- .1 Replace Item 2.1.5, with the following:
 - .5 New piping for earthquake protection.
- .2 PART 1 - GENERAL, Add the following:
 - 3.4 SYSTEM DRAINING .1 Contractor shall be responsible for deactivation, draining, refilling and reactivating of wet sprinkler system and standpipe system. Coordinate with Departmental Representative.

2. SECTION 28 31 00.02 - MULTIPLEX FIRE ALARM AND VOICE COMMUNICATION SYSTEMS

- .1 Item 2.1.1, revise as follows:
 - .1 The existing system consists of a Siemens, model MXLV, 2 stage fire/voice communications system. All materials must be selected to ensure compatibility with existing fire alarm system. Carry Siemens for all programming and verifications.

DRAWINGS

1. DRAWING M4

- .1 Replace Note 5 with the following:

Replace base plate cover on all perimeter heater enclosures. New base plate to be prepared for powder coating by general contractor.

2. DRAWING M5

- .1 Provide security bars within 1000 x 250 supply air duct at wall penetration near Column F10.

C.D. HOWE BUILDING, OTTAWA, ON
1W FIT UP AND M&E UPGRADE

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PROJECT NO. R.064703.002

DATE: January 19, 2015

3. DRAWING E3

- .1 Replace Note 1 with the following:

Typical: Disconnect, remove and retain existing fire alarm speaker for re-use and re-installation in new ceiling. Remove existing fire alarm wiring c/w conduits back to source.

4. DRAWING E5

- .1 Add a general note to Drawing E5:

Provide a new conduit system complete with wiring from the west electrical room to all new or relocated fire alarm speakers and devices on the floor. All wiring shall run in EMT conduits with 100 x 100 x 50 mm box c/w terminal block on slab above speaker and flexible conduit drop to speaker on suspended ceiling. Maximum length of flexible conduit shall be 3 m.

PART 1 – GENERAL

1.1 REGULATORY REQUIREMENTS

.1 An investigation into the presence of designated substances for the 1st Floor, West Space Refit and Base Building Work Project, located at the CD Howe Building, 235 Queen Street, Ottawa, Ontario, was performed in order to meet the requirements of the Canada Labour Code under Part II, Section 124 that every employer shall ensure that the health and safety at work of every person employed by the employer is protected. Also, it was performed to meet the requirements of Section 30 of the Ontario Occupational Health and Safety Act, Revised Statutes of Ontario, 1990, Chapter 0.1. Furthermore, Section 125(1)(z.14) of the *Canada Labour Code* stipulates that the employer will take all reasonable care to ensure that all persons granted access to the work place, other than the employer's employees, are informed of every known or foreseeable health and safety hazard to which they are likely to be exposed in the work place. By having a Designated Substances Report (DSR) conducted, the PWGSC Departmental Representative will be able to inform his or her employees, contractors, and tenants of any designated substances that may be present and possibly disturbed throughout the duration of the project. The informed Departmental Representative will then be able to impose appropriate health and safety precautions for all applicable personnel as required.

.2 The designated substances identified in the *Occupational Health and Safety Act* and its corresponding regulations are:

- .1 **Acrylonitrile:** "*Designated Substances*"
O. Reg 490/09, as amended.
- .2 **Arsenic:** "*Designated Substances*"
O. Reg 490/09, as amended.
- .3 **Asbestos:**
 - .1 "*Designated Substances*"
O. Reg 490/09, as amended.
 - .2 "*General – Waste Management*"
O. Reg 347/90, as amended
 - .3 "*Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations*"
O.Reg 278/05 (as amended)
 - .4 *PWGSC Departmental Policy*
DP 057 – "*Asbestos Management*"
- .4 **Benzene:** "*Designated Substances*"
O. Reg 490/09, as amended.
- .5 **Coke Oven Emissions:** "*Designated Substances*" O. Reg 490/09, as amended.
- .6 **Ethylene Oxide:** "*Designated Substances*"
O. Reg 490/09, as amended.

- .7 **Isocyanates:** *"Designated Substances"*
O. Reg 490/09, as amended.
- .8 **Lead:**
 - .1 *"Designated Substances"*
O. Reg 490/09, as amended.
 - .2 *"General – Waste Management"*
O. Reg 347/90, as amended
 - .3 *Canada Consumer Product Act's
Surface Coating Materials
Regulations SOR/2005-109, as
amended (2011)*
- .9 **Mercury:**
 - .1 *"Designated Substances"*
O. Reg 490/09, as amended.
 - .2 *"General – Waste Management"*
O. Reg 347/90, as amended
- .10 **Silica:** *"Designated Substances"*
O. Reg 490/09, as amended.
- .11 **Vinyl Chloride:** *"Designated Substances"*
O. Reg 490/09, as amended.
- .3 All contractors requesting tenders from subcontractors shall furnish this report to subcontractors.

1.2 VALIDITY DATE

- .1 DST Consulting Engineers Inc. (DST), conducted the on-site survey for this report on February 4, and November 13 2014 followed by another survey completed by the Environmental Services Directorate of the Real Property Branch, PWGSC, on January 06, 2015 to survey additional project areas.
- .2 A visual evaluation of building materials in select areas of the building for the presence of suspected designated substances has been completed on February 4, 2014, November 13, 2014 and January 06, 2015. As per an annotated floor plan provided to DST by PWGSC that identified the project areas to be included as part of the designated substances survey, the DSR for this project specifically included the following areas, hereafter referred to as 'the project areas':
 - Former PWGSC offices, support spaces and associated public corridors on the 1st Floor – West, including:
 - Assistant Deputy Minister's Office (ADMO);
 - Governance, Policy Coordination and Planning Branch (GPP) offices;

- Digital Policy Branch (DPB) offices;
- Information and Communications Technologies Branch (ICTB) offices; and
- Department of National Defense (DND) offices.
- The administration and workshop areas of the commercial space on the 1st Floor West occupied by Holt Renfrew (H&R).
- Two (2) Electrical Rooms and two (2) Mechanical Rooms.

DST was advised by PWGSC prior to the survey portion of the DSR that the former PWGSC offices (listed above) were scheduled for a complete 'slab-to-slab' re-fit. As such, all accessible areas were included in the DSR. DST did not complete a full DSR for the building.

DST was also advised prior to the survey portion of the DSR that the planned re-fit activities for space of the 1st floor occupied by the H&R administration and workshop areas only included mechanical and electrical upgrades. As such, flooring materials were not included as part of the survey or sampling for this area, as no flooring materials are anticipated to be disturbed as part of the scheduled mechanical and electrical work in this area. If vinyl floor materials are removed or disturbed, they should be assumed to contain asbestos, unless proven otherwise by bulk sampling and laboratory analysis. It should be noted that a H&R secure storage area, accessible from behind the reception area was locked at the time of the DSS, and could not be accessed by DST or the accompanying escorts.

- .1 The scope of work for this report involved a visual inspection of building materials and contents for the presence of suspected designated substances within the project areas.
- .2 From the visual inspection, suspect materials were sampled and analyzed, (where necessary), for select designated substances. On the basis of this inspection, a total of forty five (45) bulk samples (comprised of sixty-three (63) bulk sample layers) of suspected asbestos-containing material samples were collected from the project areas.
- .3 Samples were then submitted for analysis at Paracel Laboratories Ltd., located at 300-2319 St. Laurent Boulevard, Ottawa, ON K1G 4J8.

- .4 The survey was limited to those areas that could be accessed by non-destructive means. The visual inspection and sampling was limited to readily accessible areas. Destructive testing was not included in the investigation. Due to the nature of building construction, some inherent limitations exist as to the possible thoroughness of the designated substance survey. The survey did not include the demolition of floors, floor finishes, solid ceilings or walls, or the sampling of pipe insulations, pipe fitting insulations and floor coverings.
- .5 It is possible that designated substances are present in non-accessible areas and concealed spaces (i.e., wall and ceiling cavities), or additional confined spaces. No other areas outside the defined work boundaries have been assessed.
- .6 Prior to beginning work, it must be confirmed with the Departmental Representative that no additional designated substances have been brought to the project area.
- .7 In addition, the survey refers to Polychlorinated Biphenyls (PCBs) and Halocarbons; however, it does not refer to other substances that may be present in the day-to-day usage for specialized equipment or areas in buildings (i.e., lead shields, fume hoods, chemicals, etc.).
- .8 There is a possibility that materials that could not be reasonably identified within the scope of this assessment or which were not apparent during previous site visits may exist. Should any designated substance be encountered in the course of demolition or renovation, work must be stopped, preventative measures taken, and the Departmental Representative must be notified immediately. **Do not proceed until written instructions have been received.**

PART 2 - DESIGNATED SUBSTANCES

2.1 SURVEY RESULTS

- .1 **ACRYLONITRILE:** Not Identified
- .2 **ARSENIC:** Not Identified

3 ASBESTOS: Identified

Asbestos is a naturally occurring material. In general, it has historically been intentionally added to many building materials in the construction industry to increase thermal or chemical resistance properties. More common uses are thermal insulation for pipes and boilers, structural steelwork fireproofing, floor tiles and in-wall and ceiling plasters. There are two classes of asbestos-containing materials: friable and non-friable. Friable asbestos-containing materials are loose in composition or can be easily crumbled using hand pressure. Non-friable asbestos-containing materials are more durable and are held together by a binder such as cement, vinyl or asphalt.

Representative bulk samples, collected from materials located within the project areas have been analyzed for asbestos. Analytical results indicate that select samples contain asbestos in the project areas.

Table 1 summarizes the analytical results of bulk samples collected during the site investigation:

Table 1: Asbestos Sample Results by PLM

Sample ID	Material	Location	Asbestos Type	Asbestos content (%)
18254-01A	Black and beige paper	Concrete column meets concrete deck , GPP office, west perimeter wall column	n/a	n/d
18254-01B			n/a	n/d
18254-01C		Concrete column meets concrete, GPP office, north west corner column	n/a	n/d
18254-02A	Drywall joint compound	GPP office, southwest, internal wall above ceiling tiles	Chrysotile	<MDL
18254-02B		GPP office, south central, internal wall above ceiling tiles	n/a	n/d
18254-02C		GPP office, south central, internal wall above ceiling tiles	n/a	n/d
18254-02D		ICTB office, internal wall above ceiling tiles	n/a	n/d
18254-02E		DPB office, south, internal wall above ceiling tiles	Chrysotile	1%
18254-02F		DPB office, east, internal wall above ceiling tiles	Not analyzed – positive stop	
18254-02G		DND office, central, internal wall above ceiling tiles	Not analyzed – positive stop	
18254-03A	Red streaked VSF	GPP office, south central, conference room	n/a	n/d
18254-03B			n/a	n/d
18254-03C			n/a	n/d
18254-04A	Black sealant/caulking	GPP office, north-east corner, on drywall penetrations into the concrete ceiling deck, above suspended ceiling tiles,	Chrysotile	0.69%
18254-04B			Not analyzed – positive stop	
18254-04C			Not analyzed – positive stop	

Sample ID	Material	Location	Asbestos Type	Asbestos content (%)
18254-05A	Ceiling stipple	GPP office, adjacent to south entrance	n/a	n/d
18254-05B		Corridor, west	n/a	n/d
18254-05C		Corridor, east	n/a	n/d
18254-05D		Corridor, vestibule area with double doors	n/a	n/d
18254-05E		Corridor, west	n/a	n/d
18254-06A	2'x4' Ceiling Tiles	ICTB office	n/a	n/d
18254-06B			n/a	n/d
18254-06C			n/a	n/d
18254-07A	Remnant brown fireproofing	DPB office, above ceiling tiles	n/a	n/d
18254-07B			n/a	n/d
18254-07C			n/a	n/d
18254-08A	Drywall joint compound	Reception area	Chrysotile	1%
18254-08B		Hallway, above ceiling tiles	Not analyzed – positive stop	
18254-08C		Lunch room	Not analyzed – positive stop	
20053-01	Parging Debris	On floor behind Air Handling Unit (AHU) in Mechanical Room 105	Chrysotile	30%
CDHC2-AS-1A	12"x12" grey vinyl floor tile with black mastic	Kitchen, 2nd floor, C2	n/a	n/d
CDHC2-AS-1B			n/a	n/d
CDHC2-AS-1C			n/a	n/d
CDHC2-AS-1D			n/a	n/d
CDHC2-AS-1E			n/a	n/d
CDHC2-AS-2A	12"x12" beige vinyl floor tile with black mastic	Alteration Room, 2nd floor C2	n/a	n/d
CDHC2-AS-2B			n/a	n/d
CDHC2-AS-2C			n/a	n/d
CDHC2-AS-2D			n/a	n/d
CDHC2-AS-2E			n/a	n/d
CDHC2-AS-3A	12"x12" grey vinyl floor tile with beige mastic	Alteration Room, 2nd floor C2	n/a	n/d
CDHC2-AS-3B			n/a	n/d
CDHC2-AS-3C			n/a	n/d
CDHC2-AS-3D			n/a	n/d
CDHC2-AS-3E			n/a	n/d

Bold items exceed the 0.5% regulated concentration of asbestos, as per O.Reg. 278/05, as amended
MDL: Method Detection Limit, n/d – none detected, n/a- not applicable

Based on limited observations noted during the survey, the following friable asbestos-containing material was identified in the H&R project area:

- Grey cement compound on six (6) pipe fittings (assumed ACM), associated with a small pad-mounted fibreglass insulated boiler in the sewing and ironing room in the H&R administration area. The associated straight-length piping was observed to be non-asbestos fibreglass. All six fittings were observed to be in good condition at the time of the survey.

- Grey Parging Debris, observed on the ground behind the Air Handling Unit in Mechanical Room 105, contains 30% Chrysotile asbestos (Sample 20053-01). Less than 1 m² of this material was observed mixed with concrete debris in the space between the AHU and the wall.
- Grey fire-stop at pipe penetrations was observed throughout the project area. This material was previously sampled and confirmed to contain asbestos by Greenough Environmental Consulting Inc. (GEC) in 2006 and updated by GEC in 2009¹. This material was observed at many pipe penetrations throughout the project area and was often concealed behind newer applications of non-asbestos fire-stop. This material was observed to be in fair condition (when not encapsulated) and good condition when concealed.

Based on analytical sampling and limited observations noted during the survey, the following non-friable asbestos-containing materials were identified in the project areas:

- Drywall joint compound associated with all drywall materials throughout both of the project areas (former PWGSC offices and H&R administration offices) contains 1% Chrysotile asbestos (Samples 18254-02E and 18254-08A, respectively). All accessible instances of this ACM were observed in good condition at the time of survey. All drywall with joint compound throughout the project areas should be assumed to contain asbestos, unless further laboratory analysis and delineation proves otherwise.
- A black tar/rubber material suspected to be used as an acoustic sealant applied to remnant drywall materials above the suspended ceiling tiles in the north-east corner of the former PWGSC GPP offices contains 0.69% Chrysotile asbestos (Sample 18254-04A). This ACM may be present as a sealant for drywall that is installed up to the concrete deck level in other locations within the project areas.

.4 **BENZENE:** Not Identified

.5 **COKE OVEN EMISSIONS:** Not Identified

¹ 2009 Asbestos Management Plan Update, C.D. Howe Building, 204 Sparks Street Ottawa, Ontario, Project No. 24732 prepared by Greenough Environmental Consulting Inc., March 2009.

.6 **ETHYLENE OXIDE:** Not Identified

.7 **ISOCYANATES:** Not Identified

.8 **LEAD: Confirmed**

Lead is a naturally occurring metal. It was used primarily in paint prior to the 1980s to increase the drying process. Lead in paint becomes a danger when it is old or damaged, as it creates lead dust and chips. Lead can also be found in soldered joints installed on piping up to the mid-1990s and in older cast iron bell and spigot joints.

- .1 According to the Canada Consumer Product Act's *Surface Coating Materials Regulations* SOR/2005-109, as amended, allowable concentration of lead of surface coatings is 0.009 percent by weight (weight of lead to weight of paint), which is equivalent to 90 parts per million (ppm).
- .2 Even at very low concentrations, there may be potential for exposure to very high levels of lead depending on the activities performed that disturb the lead-containing materials. At low lead concentrations, conducting a risk assessment to assess the potential for exposure is required to determine the need to follow precautionary measures.
- .3 A representative paint sample, collected on November 13, 2014 from a mechanical room within the project area, has been analyzed for lead content. The results are summarized in Table 2:

Table 2: Lead Paint Sample Results

Sample ID	Sample Description	Sample Location	Lead Content (ppm)
20053-LP-01	Light beige wall paint	Mechanical room	451

- .4 Analytical results indicate that the light beige paint applied throughout the mechanical and electrical rooms within the project area (Sample LP-01) is considered to be lead-containing as per the aforementioned guideline.
- .5 All other paints were observed to be in good condition at the time of the site survey. As such, samples of these paints were not collected as sampling without matrix interference (i.e. removing paint without also removing non-paint substrate) would likely prove difficult. Older interior paint finishes throughout the project

area are suspected to contain detectable concentrations of lead.

- .6 Lead is also expected to be present within the solder on copper piping throughout the project areas.

.9 **MERCURY: Identified**

Mercury is assumed present in vapour form and in the phosphor coating of T-12 fluorescent light tubes throughout the project areas.

.10 **SILICA: Identified**

Free crystalline silica is assumed present in concrete, drywall, stipple ceilings, and ceiling tiles throughout the project areas.

.11 **VINYL CHLORIDE MONOMER: Not Identified**

.12 **POLYCHLORINATED BIPHENYLS (PCBs): Suspected**

Although not considered a designated substance, polychlorinated biphenyls (PCBs) can generally be found within fluorescent light fixture and High Intensity Discharge (HID) lamp ballasts. DST did not disassemble any of the light fixtures in the project areas to identify the presence of ballasts, as the light fixtures were energized at the time of site visit.

During the site investigation, fluorescent light fixtures containing T12 lamp tubes were observed in the project areas. Fluorescent light ballasts associated with these light tubes are suspected to contain PCBs.

.13 **HALOCARBONS: Not Identified**

2.2 RECOMMENDATIONS

1. **ASBESTOS**

PWGSC's Departmental Policy (DP) 057, Asbestos Management, sets policy, establishes roles and responsibilities and provides a code of practice for the management of and working with asbestos-containing materials. All work must be done in accordance with this directive, as well as all other applicable legislation. Disturbance of all asbestos (whether friable or non-friable) is regulated in

Ontario by "Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations" O.Reg 278/05, as amended, which outlines the precautions required when performing work involving asbestos-containing materials. The regulation stipulates appropriate respiratory protection, work procedures and ventilation requirements that must be utilized during the disturbance of any asbestos-containing materials, or materials suspected to contain asbestos.

In the event of conflict between DP-057 and "Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations" O.Reg. 278/05, as amended, the more stringent shall apply.

The removal or disturbance of one square metre or less of friable asbestos containing materials (**grey cement compound on pipe fittings**) must be conducted using a minimum of Type 2 asbestos work procedures. The removal or disturbance of more than one square metre of friable asbestos-containing materials must be conducted using Type 3 asbestos work procedures. Type 3 asbestos abatement operations performed in occupied buildings require daily asbestos air monitoring outside of each asbestos work area, as per PWGSC DP-057. It should be noted that the removal of good condition asbestos-containing pipe fitting insulation can be conducted using Type 2 glove bag procedures, provided the material is in good condition, and a proper seal can be maintained.

The removal or disturbance of less than one square metre of **drywall in which the joint-filling compound** contains asbestos must be conducted using a minimum of Type 1 asbestos work procedures. The removal or disturbance of one square metre or more of drywall in which the joint filling compounds are asbestos-containing must be conducted using a minimum Type 2 asbestos work procedures.

The removal or disturbance of non-friable **black acoustic caulking/sealant** above ceiling tiles in select locations, if disturbance is necessary, can be conducted using a minimum of Type 1 asbestos work procedures, provided the material is wetted to control the spread of dust or fibres, and the work is done only by means of non-powered hand-held tools. If these conditions cannot be met, then more stringent (Type 2 or Type 3) work procedures are required.

It should be noted that due to the possibility that asbestos-containing **fire-stop** has been concealed beneath newer non-asbestos applications, DST recommends that all fire-stop at pipe penetrations be

considered as asbestos containing. Note also that as per the site contact (Stephen Tully, SNC-Lavalin O&M Ltd.) pipe penetrations that have been abated and had new fire-stop applied have been installed with a blue fire-stop to differentiate these penetrations from unabated ones. Removal or disturbance of friable Grey Fire-Stop must be performed using a minimum of Type 2 asbestos work procedures.

2. LEAD

If confirmed or suspected lead-containing materials are disturbed (i.e. during dry sanding, grinding, polishing and sawing operations), then proper precautions, as outlined under "Designated Substances" O.Reg 490/09, as amended, of the Occupational Health and Safety Act, must be followed.

Under Ontario Regulation 490/09, as amended of the Occupational Health and Safety Act, regulatory limits have been established for occupational exposure limits to airborne lead that may be present in a workplace. The Time Weighted Average Exposure Values (TWAEV) to airborne lead dust or fumes should not exceed the Ministry of Labour's 0.05 milligram per cubic metre (mg/m^3) limit during the removal of paints and products containing any concentration of lead. The TWAEV represents the time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, to which it is believed that nearly all workers may be repeatedly exposed, day after day, without adverse health effects.

Contractors performing work that requires disturbance of lead-containing materials are responsible to ensure that the workers are not exposed to airborne lead dust levels in excess of the time-weighted average and Maximum Exposure Concentration for lead-containing paints.

.1 Ontario Ministry of Labour (MoL) has published the document entitled "*Guideline: Lead on Construction Projects*". This document classifies all disturbances of lead-containing materials as Type 1, Type 2a, Type 2b, Type 3a or Type 3b work, based on presumed airborne concentrations of lead generated during the work each of which will have defined work practices. Although this document is not a regulation, Ministry of Labour Inspectors use it as guidance during site inspections. Where there is conflict with the exposure limits and respiratory protection required by "Designated Substances" Regulation O.Reg 490/09, as amended, the most

stringent requirements of Regulation 490/09 must apply

.2 The disposal of construction waste containing lead is controlled by "General - Waste Management" *O.Reg 347/90, as amended*, under the *Ontario Environmental Protection Act*. The classification of the waste is dependent upon the result(s) of leachate test(s). The waste can be classified as "hazardous", "non-hazardous" or "registerable solid waste", depending on the results of the leachate test.

Prior to disposal, the concentration of leachable lead must be determined for waste materials with elevated lead contents following the Toxicity Characteristic Leaching Procedure (TCLP). Based upon the concentration of lead identified within the paint within the work area, the painted surfaces would be characterized as non-hazardous for disposal.

3. MERCURY

.1 Mercury is governed by "Designated Substances" *O.Reg 490/09*, as amended, under the Occupational Health and Safety Act. The regulation provides requirements for allowable exposure levels.

.2 In addition, mercury waste is considered a hazardous waste under "General - Waste Management" *O.Reg 347/90, as amended*, of the *Ontario Environmental Protection Act*. Fluorescent lamp tubes are considered hazardous material and should be recycled if removed from service. For information regarding the collection of fluorescent lamp tubes, please consult the PWGSC Departmental Representative.

4. SILICA

.1 Silica occurs as crystalline material in cement. Crystalline silica is regulated under "Designated Substances" *O.Reg 490/09*, as amended, of the *Occupational Health and Safety Act* as a Designated Substance.

.2 Silica dust can be generated through such processes as blasting, grinding, crushing, and sandblasting silica-containing material. Since silica is presumed present in concrete, plaster and drywall within the project areas, appropriate respiratory protection and ventilation must be donned during the demolition and modifications of these structures.

.3 The Occupational Health and Safety Branch of the MoL has published the document entitled "*Guideline: Silica on Construction Projects*". This document classifies the disturbance of materials containing silica as Type 1, Type 2 or Type 3 work,

and assigns different levels of respiratory protection and work procedures for each classification. These work procedures should be followed when performing work involving the disturbance of silica-containing materials.

5. POLYCHLORINATED BIPHENYLS (PCBs)

(NOT RECOGNIZED AS A DESIGNATED SUBSTANCE)

.1 During the site investigation, fluorescent light fixtures containing T12 lamp tubes were observed in the project areas. Fluorescent light ballasts associated with these light tubes are suspected to contain PCBs. If any fluorescent light ballasts are removed during this project, please refer to the Environmental Canada, *Identification of Lamp Ballasts Containing PCBs, August 1991* report in order to identify the ballast type. Ballasts for a typical 1.2 metre fluorescent light fixture made with PCBs contain approximately 23.6 grams of PCB.

.2 If any fluorescent light ballasts are removed during this project they must be sorted by a licensed electrician.

PCB-containing equipment and/or PCB-containing material must be disposed of in accordance with:

- Canadian Environmental Protection Act's (CEPA) PCB Regulations
- Canadian Council of Ministers of the Environment's "Guidelines for the Management of Wastes Containing Polychlorinated Biphenyls"
- Ontario Environmental Protection Act's O.Reg 362/90 "Waste Management - PCB's" (O.Reg 33/07, French version)

All PCB-containing equipment and/or PCB-containing material that is removed from the site or placed into storage shall be appropriately reported in accordance with the requirements of the CEPA PCB Regulations.

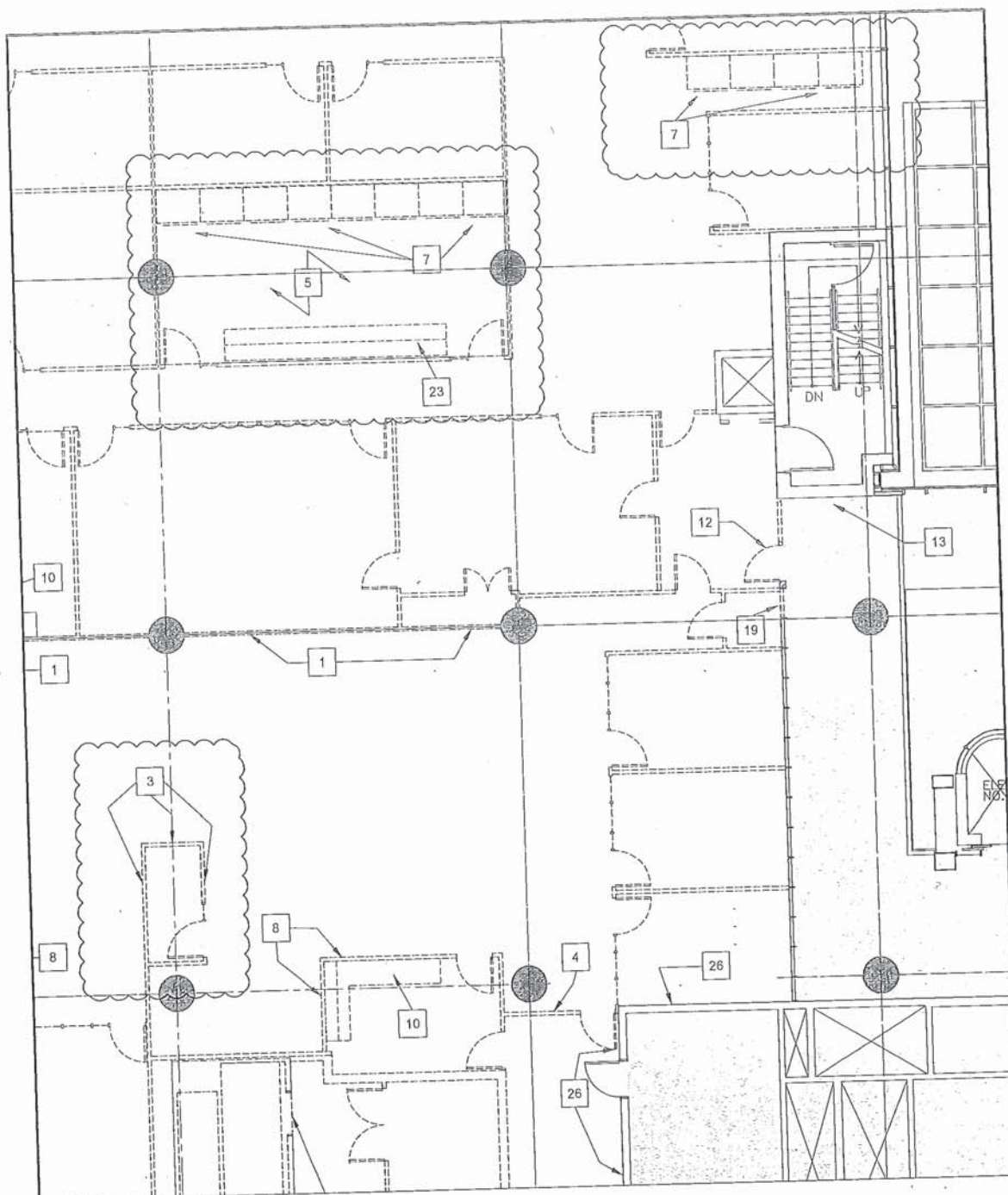
6. CONTRACTORS DUTIES

The contractor must review the designated substance report and take the necessary precautions to protect the health and safety of the workers and the environment. As per Section 30(4) of the *Ontario Occupational Health and Safety Act*, the party hiring the contractor (i.e., PWGSC Departmental Representative) shall ensure that the contractor and subcontractor (if any) for the project has received a copy of the designated substance report prior to entering a binding contract for the supply of work on the project. As per Section 27(2) (a, b, and c) of the *Ontario Occupational Health and Safety Act*, while onsite, the contractor supervisor

shall exercise every reasonable precaution for the protection of a worker. If you have any questions about the designated substance report, please contact the PWGSC Departmental Representative.

The contractor shall also complete all reporting requirements to comply with applicable regulations.

END OF SECTION



1
A111

1 WEST DEMOLITION PLAN (PARTIAL)

SCALE 1:100



#

DRAWING NOTES A111 - A & B:

REVISED & SUPPLEMENTAL DWG. NOTES TO SHEET A/111 A & B
1. REMOVE EXISTING PLENUM BARRIER ABOVE CEILING GRID. (GYPSUM BOARD/STEEL STUDS/GYPSUM BOARD).

3. REMOVE EXISTING SLAB TO U/S CEILING GRID PARTITION. (GYPSUM BOARD/STEEL STUDS/GYPSUM BOARD) INCLUDING FLOOR BASE, WALL MOUNTED ACCESSORIES, DOORS, FRAMES, & SIDELIGHTS; REMOVE METAL SECURITY MESH BARRIER IN CEILING.

7. LARGE FULL HEIGHT BUILT IN CABINETS TO BE REMOVED

23. EXISTING MILLWORK TO BE REMOVED; UPPER & LOWER CABINETS AND COUNTER.



Public Works and
Government Services
Canada

Travaux publics et
services gouvernementaux
Canada

Canada

project

1W FIT-UP &
M&E UPGRADE

project

drawing

DETAIL - 1/A111
(PARTIAL & REVISED)

dessin

Designed By
Date

PK
JAN/15

Drawn By
Date

KE
JAN/15

Reviewed By
Date

PK
JAN/15

Approved By
Date

PK
JAN/15

Conçu par

(yyyy/mm/dd)

Destiné par

(yyyy/mm/dd)

Examiné par

(yyyy/mm/dd)

Approuvé par

(yyyy/mm/dd)

Tender

STEPHANE CORMIER

Project Manager

Administrateur de projets

Project no.

R.064703.002

Drawing no.

ADD2-SK1

Submission

No. du projet

No. du dessin

Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

[illegible]

products	percentage	units
A	45%	100
B	35%	100
C	20%	100

1W FIT-UP &
M&E UPGRADE

[illegible]

DETAIL - 2/A111
(PARTIAL &
REVISED)

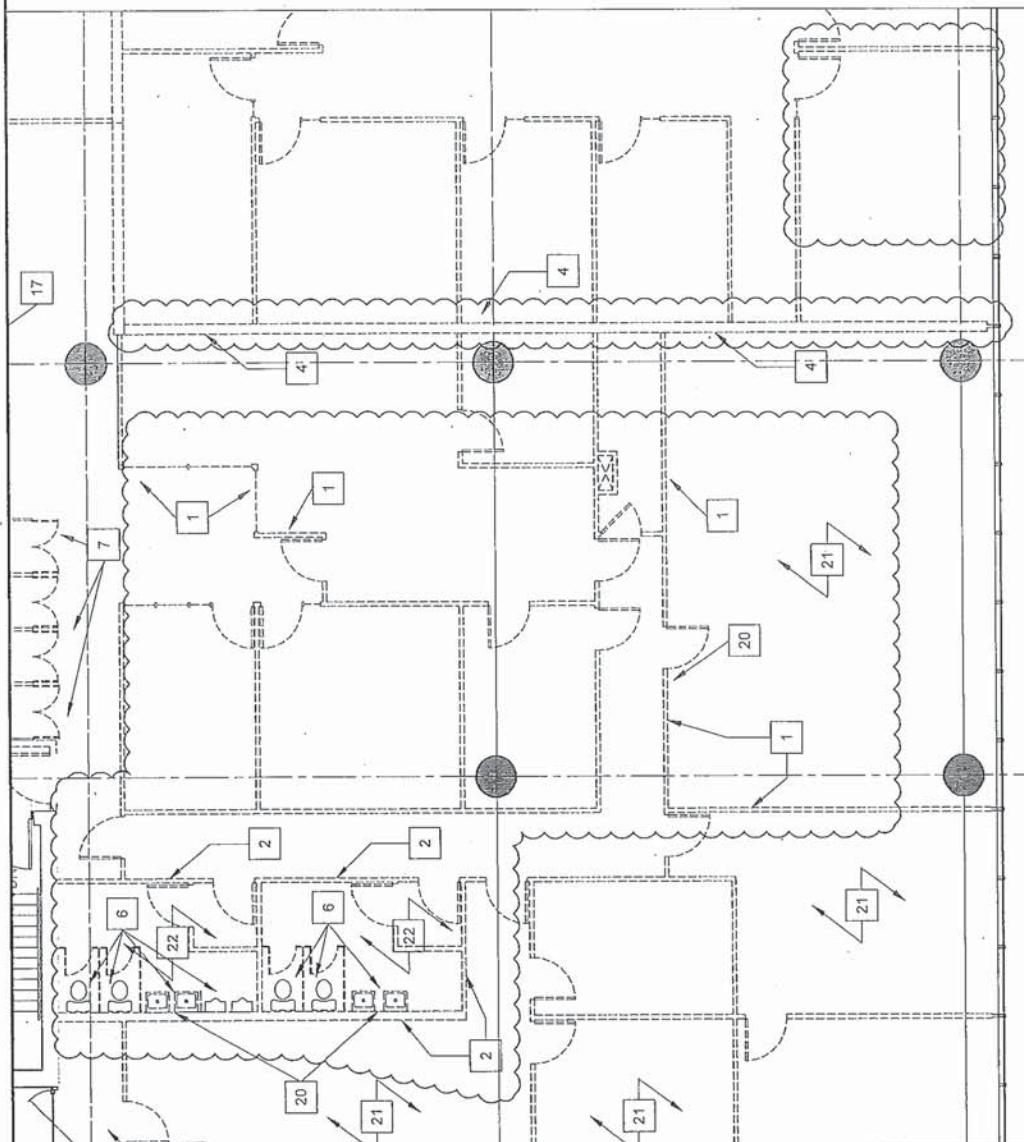
Designed By	PK JAMIS	Carry over	(yy/mm/dd)
Drawn By	KE JAMIS	Describe part	(yy/mm/dd)
Date			
Reviewed By	PK JAMIS	Examine part	(yy/mm/dd)
Date			
Approved By	PK JAMIS	Approve part	(yy/mm/dd)
Date			
Entered		Submitted	
STEPHANIE CORMIER			
Project Manager			
Administrative de projet			
No. du projet			

R.064703.002

DRAWING NOTES A111 - A & B:

REVISED & SUPPLEMENTAL DWG. NOTES TO
SHEET A/11 A & B

1. REMOVE EXISTING PLENUM BARRIER ABOVE CEILING GRID. (GYPSUM BOARD/STUDS/GYPSUM BOARD).
2. REMOVE EXISTING SLAB TO US CEILING GRID PARTITION. (GYPSUM BOARD/STUDS/GYPSUM BOARD) INCLUDING FLOOR BASE WALL, MOUNTED ACCESSORIES, DOORS, FRAMES, & SIDELIGHTS.
3. REMOVE EXISTING SLAB TO SLAB PARTITION. (METAL MESH GYPSUM BOARD/STUDS/BATT INSULATION/GYPSUM BOARD) INCLUDING DOORS, FRAMES, & SIDELIGHTS.

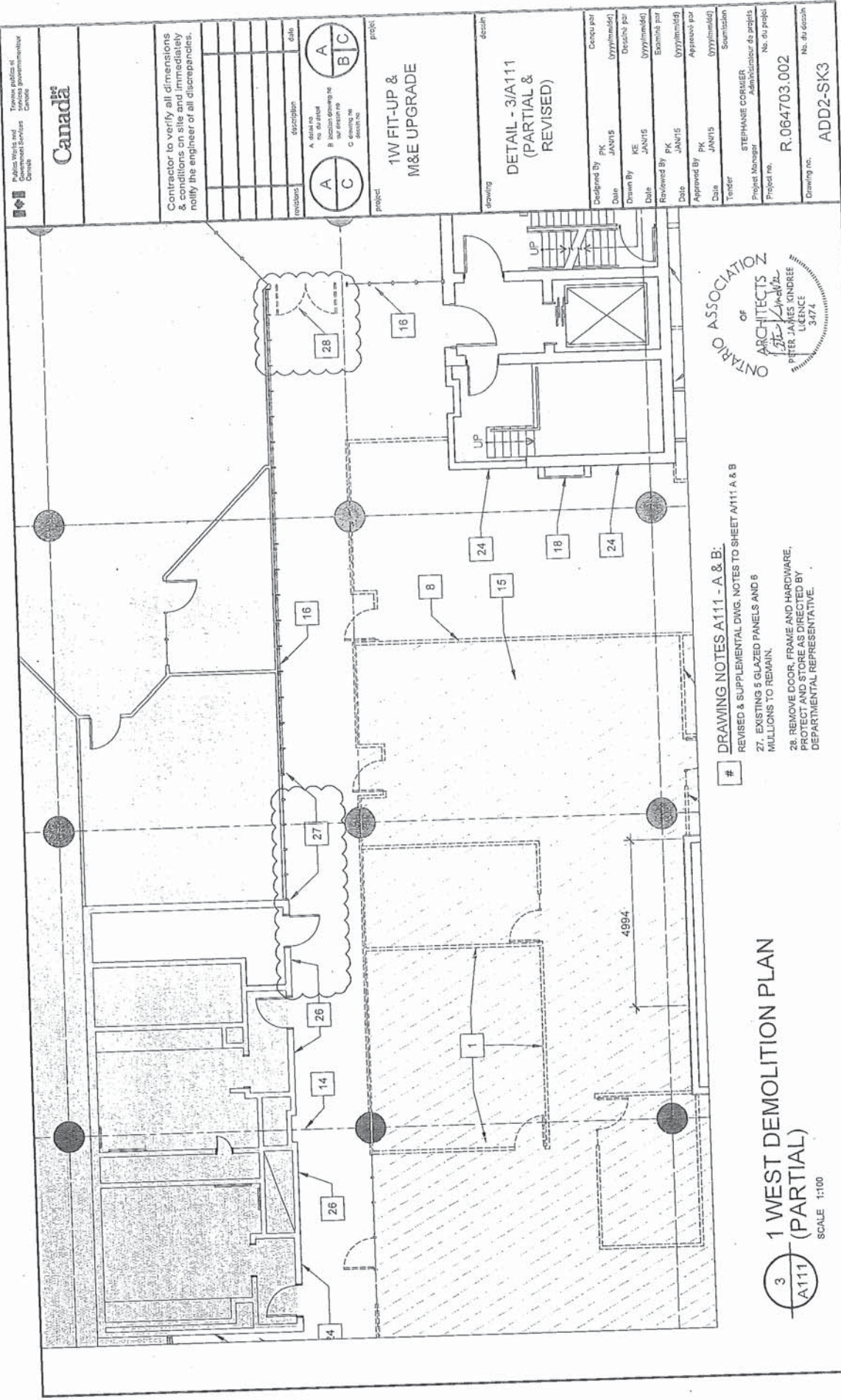


11 WEST DEMOLITION PLAN
(PARTIAL)

2	A111
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ONTARIO ASSOCIATION
 of
 ARCHITECTS
 PETER JAMES KINDREE
 LICENCE
 3474

Page 11 of 17 (11/17/2017)



DRAWING NOTES A111 - A & B:
 REVISED & SUPPLEMENTAL DWG. NOTES TO SHEET A111 A & B
 27. EXISTING 5 GLAZED PANELS AND 6 MULLIONS TO REMAIN.
 28. REMOVE DOOR, FRAME AND HARDWARE, PROTECT AND STORE AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.

3
 A111
 1 WEST DEMOLITION PLAN
 (PARTIAL)
 SCALE 1:100

ONTARIO ASSOCIATION OF ARCHITECTS
 Peter James Kindree
 LICENCE 3474

Public Works and Government Services Canada Travaux publics et Services gouvernementaux Canada	
Canada	
Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.	
revisions	date
A section covering the entire project B section covering the entire project C section covering the entire project	
project 1W FIT-UP & M&E UPGRADE	
drawing DETAIL - 3/A111 (PARTIAL & REVISED)	
Designed by Date Drawn by Date Reviewed by Date Approved by Date Tender	Checked by Date Drawn by Date Examined by Date Approved by Date Tender
Project Manager R.064703.002	
Drawing no. ADD2-SK3	

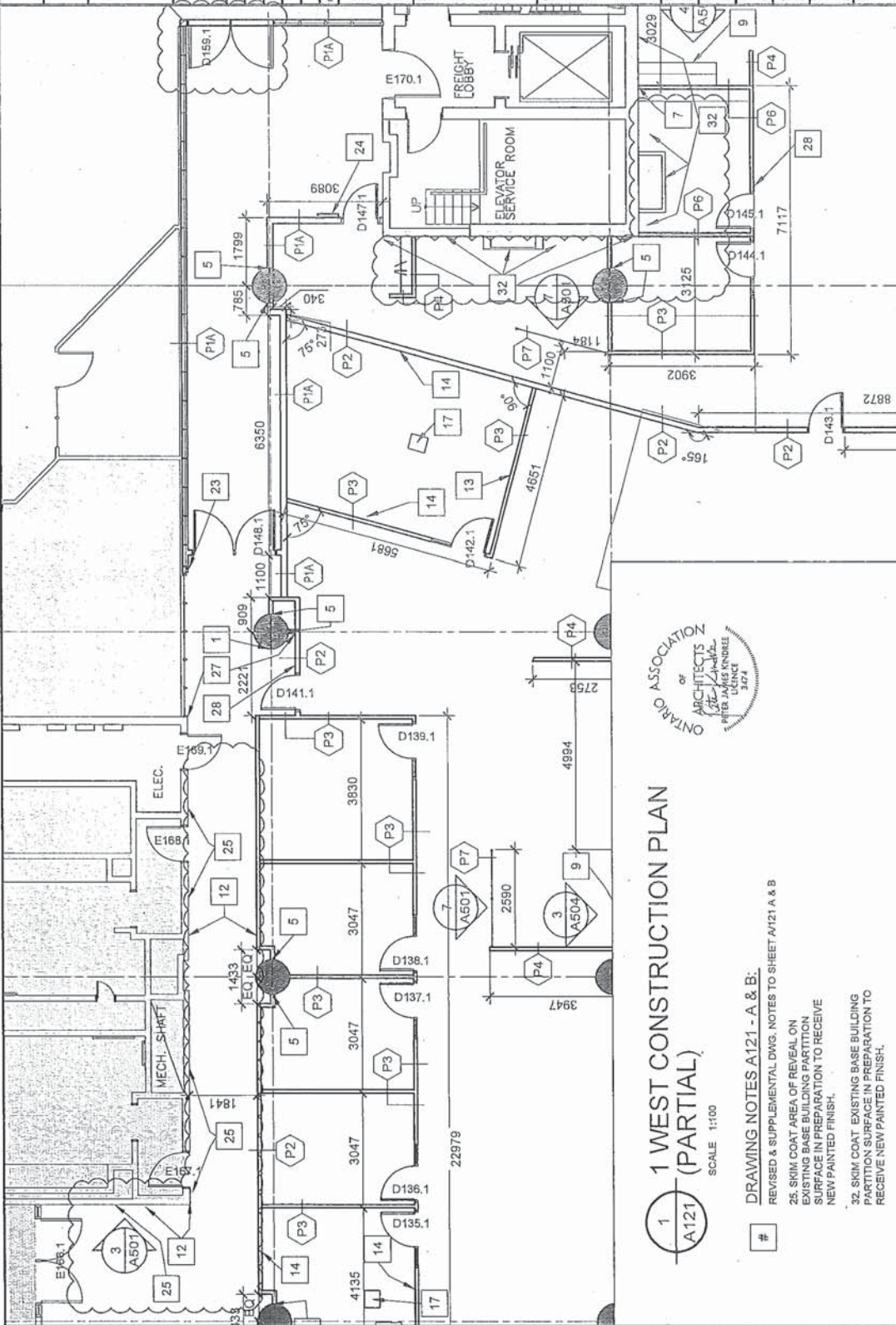
Contractor to verify all dimensions & conditions on site and immediately notify the engineer of all discrepancies.

revision	description	date
A	editting	
B	for the actual	
C	approved by	
D	approved by	
E	approved by	
F	approved by	
G	approved by	
H	approved by	
I	approved by	
J	approved by	
K	approved by	
L	approved by	
M	approved by	
N	approved by	
O	approved by	
P	approved by	
Q	approved by	
R	approved by	
S	approved by	
T	approved by	
U	approved by	
V	approved by	
W	approved by	
X	approved by	
Y	approved by	
Z	approved by	

1W FIT-UP &
M&E UPGRADE

DETAIL - 1/A121
(PARTIAL &
REVISED)

Designed By	PK	JAN/15	Conc'd per	PK	JAN/15
Date	PK	JAN/15	Decide per	PK	JAN/15
Drawn By	KE	JAN/15	Decide per	PK	JAN/15
Date	PK	JAN/15	Decide per	PK	JAN/15
Reviewed By	PK	JAN/15	Decide per	PK	JAN/15
Date	PK	JAN/15	Decide per	PK	JAN/15
Approved By	PK	JAN/15	Decide per	PK	JAN/15
Date	PK	JAN/15	Decide per	PK	JAN/15
Tender	PK	JAN/15	Decide per	PK	JAN/15
Project Manager	STEPHANE CORNUER		Decide per	PK	JAN/15
Administrative de projets			Decide per	PK	JAN/15
Project no.	R.064703.002		Decide per	PK	JAN/15
No. du projet			Decide per	PK	JAN/15
Drawing no.	ADD2-SK4		Decide per	PK	JAN/15



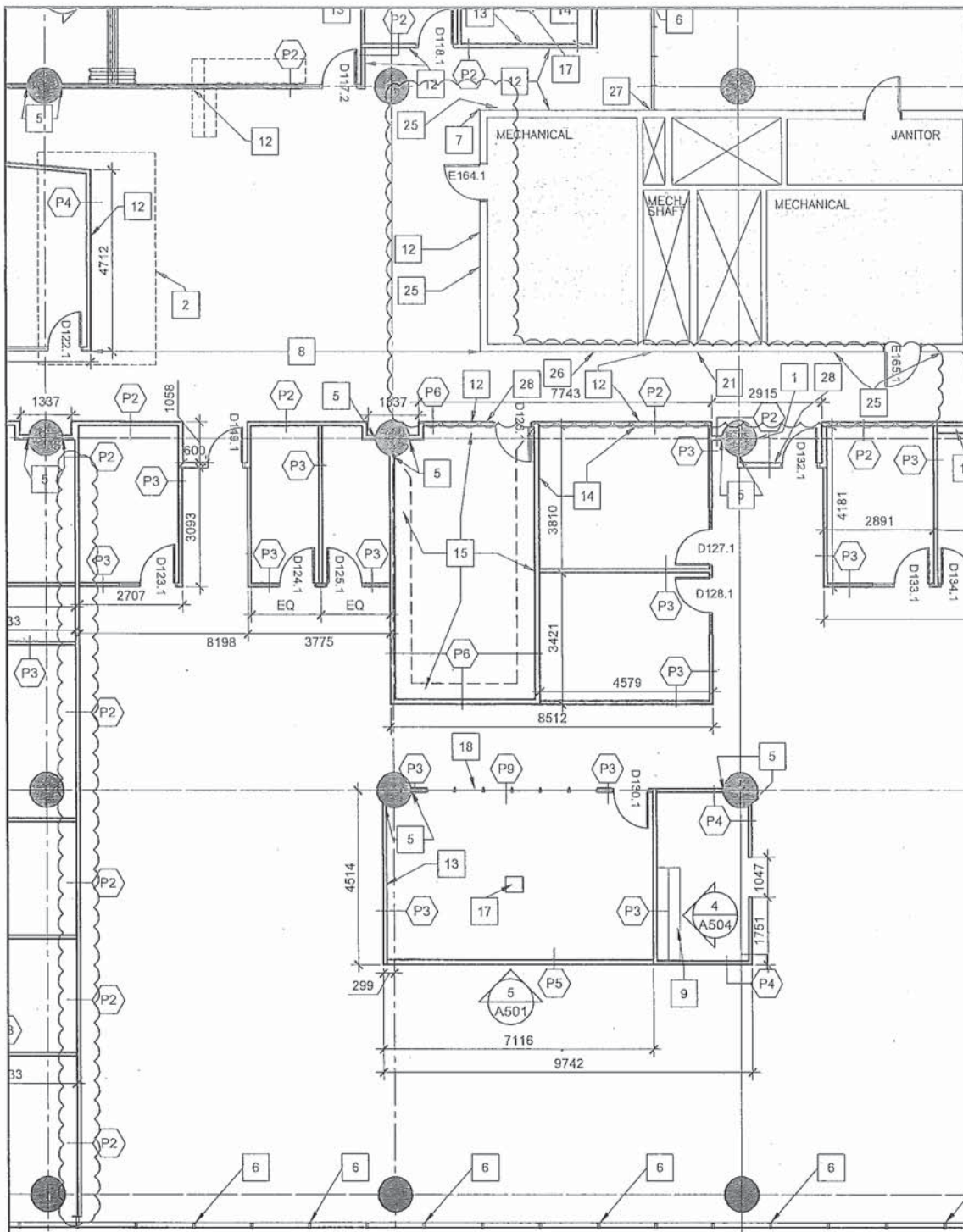
1 WEST CONSTRUCTION PLAN
(PARTIAL)
SCALE 1:100

DRAWING NOTES A121 - A & B:

REVISED & SUPPLEMENTAL DWG. NOTES TO SHEET A121 A & B

25. SKIM COAT AREA OF REVEAL ON EXISTING BASE BUILDING PARTITION SURFACE IN PREPARATION TO RECEIVE NEW PAINTED FINISH.

32. SKIM COAT EXISTING BASE BUILDING PARTITION SURFACE IN PREPARATION TO RECEIVE NEW PAINTED FINISH.

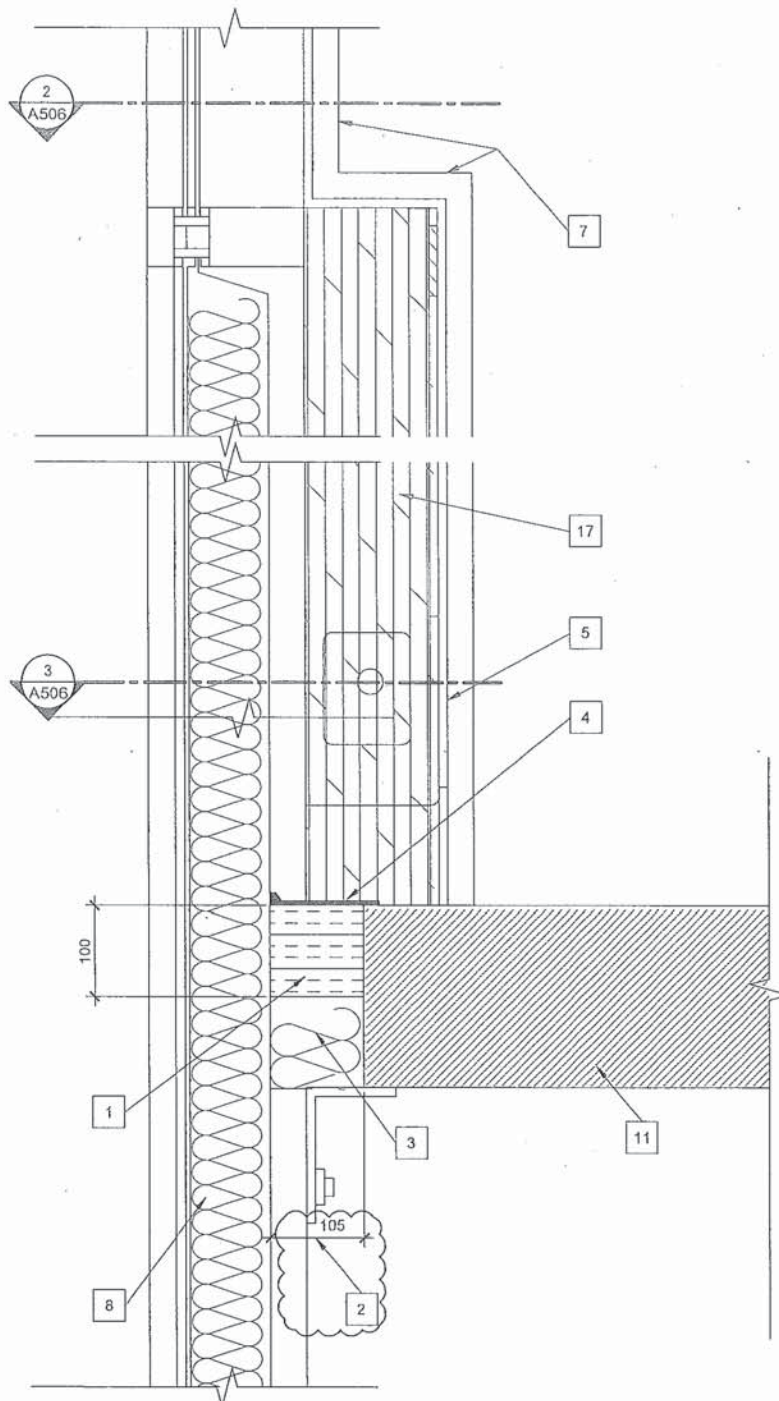


2 **1 WEST CONSTRUCTION**
A121 PLAN (PARTIAL)
SCALE 1:100

DRAWING NOTES A121 - A & B:
REVISED & SUPPLEMENTAL DWG. NOTES TO SHEET A/121 A & B
25. SKIM COAT AREA OF REVEAL ON EXISTING BASE BUILDING PARTITION SURFACE IN PREPARATION TO RECEIVE NEW PAINTED FINISH.
26. FILL HOLES LEFT FROM WALL SPEAKER REMOVAL, MAKE READY FOR ADDITIONAL LAYER OF GYPSUM WALL BOARD





		Canada		Designed By PK JAN/15	Conçu par (yyyy/mm/dd)	Tender STEPHANIE CORMIER	Soumission
Drawn By KE JAN/15		Detail - 2/A121 (PARTIAL & REVISED)		Date JAN/15	Dessiné par (yyyy/mm/dd)	Project Manager Administrateur de projet	Project no. No. du projet
1W FIT-UP & M&E UPGRADE		R.064703.002		Reviewed By PK JAN/15	Examiné par (yyyy/mm/dd)	Drawing no. No. du dessin	
Approved By PK JAN/15		ADD2-SK5		Date JAN/15	Approuvé par (yyyy/mm/dd)		



1 SECT. DET @ TYP.
A506 FIT-UP PART. & FIRE STOP
SCALE 1:5



 Public Works and Government Services Canada Travaux publics et services gouvernementaux Canada				Designed By Date PK JAN/15 (yyyy/mm/dd)	Conçu par (yyyy/mm/dd)	Tender STEPHANIE CORISER Project Manager Administrateur de projets	Soumission
project 1W FIT-UP & M&E UPGRADE	projet DETAIL - 1/A506 (PARTIAL & REVISED)	drawing dessin	Drawn By Date KE JAN/15 (yyyy/mm/dd)	Designé par (yyyy/mm/dd)	Reviewed By Date PK JAN/15 (yyyy/mm/dd)	Project no. R.064703.002	No. du projet
			Approved By Date PK JAN/15 (yyyy/mm/dd)	Approuvé par (yyyy/mm/dd)	Drawing no. ADD2-SK6	No. du dessin	

C.D. HOWE BUILDING, OTTAWA, ON
1W FIT UP AND M&E UPGRADE

Page 1 of 2

PROJECT NO. R.064703.002

DATE: January 21, 2015

The following changes in the tender documents are effective immediately. This addendum will form part of the contract documents.

SPECIFICATIONS

1. SECTION 26 24 16.01 - PANELBOARDS BREAKER TYPE

- .1 Replace Item 2.1.1, with the following:

"1 Panelboards: to CSA C22.2 No. 29 and product of one manufacturer: **Eaton Cutler-Hammer to match existing base building standard.**"

2. SECTION 27 05 28 - PATHWAYS FOR COMMUNICATIONS SYSTEMS

- .1 Replace Item 2.3.9, with the following:

".9 The box **shall be supplied with a 482 mm mounting rack** and must be capable of accepting 5 rack units."

- .2 Delete Item 2.3.11.

- .3 Replace Item 2.3.12, with the following:

".12 The rack assemblies shall be mounted on the hinged door such that upon opening of the door the rack assemblies are brought down out of the box interior for easy access. ~~The racks shall be mounted such that they stand off from the door assembly permitting adequate cable bending radius for IDC terminations at rear of category 5e modules. The racks shall also be arranged such that they are not on the same plane but rather staggered in an organized and logical manner to permit efficient, cable management and an optimal termination environment.~~

- .4 Delete Item 2.3.13.

- .5 Delete Item 2.3.14.

- .6 Delete Item 2.3.15.

- .7 Delete Item 2.3.16.

C.D. HOWE BUILDING, OTTAWA, ON
1W FIT UP AND M&E UPGRADE

Page 2 of 2

PROJECT NO. R.064703.002

DATE: January 21, 2015

DRAWINGS

1. DRAWING E1

- .1 Replace Power and Systems Legend description for consolidation box from "Telecom Distribution Box" to "Telecom Consolidation Box".

2. DRAWING E9

- .1 Delete Drawing Note 1:

"Provide 900 mm x 550 mm sleeve plates inserts to maintain fire separation for future riser cables. Cut slab prior to Telecom wall installation."

3. DRAWING M3

- .1 Note 4 add the following:

"Provide thermostatic mixing valve to regulate DHW temperature."