

Conseil national de recherches Canada

Administrative Services and Property Management Branch

Direction des services administratifs et gestion de l'immobilier



Addendum / Addenda No./N° 2

Project Description / Description de projet				
O 77 Nov. Eibna Dhatanias Lasan La	L			
S-77 New Fibre Photonics Laser La	d			
Solicitation No./ No de sollicitation	Project No./N ^O de	oroiet	W.O. No./N ^O d'ordre de travail	
Control 110., 110 do como da con	i iojectivo./iv de j	projet	W.O. NO./N d ordre de travair	
13-22101	3894		9100024775	
Departmental Representative / représentant ministérie	el		Date	
2 opanimoniai representanto / representant ministeri	.			
Derek Foot			Jan. 13, 2014	
Notice:		Nota:		
This addendum shall form part of the tender documer	nts and all	Cet addenda fait partie intégrale des dossiers d'appel d'offres; toutes les		
conditions shall apply and be read in conjunction with		conditions énoncées doivent être lues et appliquées en conjonction avec		
and specifications.	and anginar prairie	les plans et les devis originaux.		
		Tank and an are		

Architectural

- 1. No coring through the floor or ceiling is required as part of this job.
- 2. Replace drawing A01 Issued for tender with drawings A01- Addendum #2 attached.

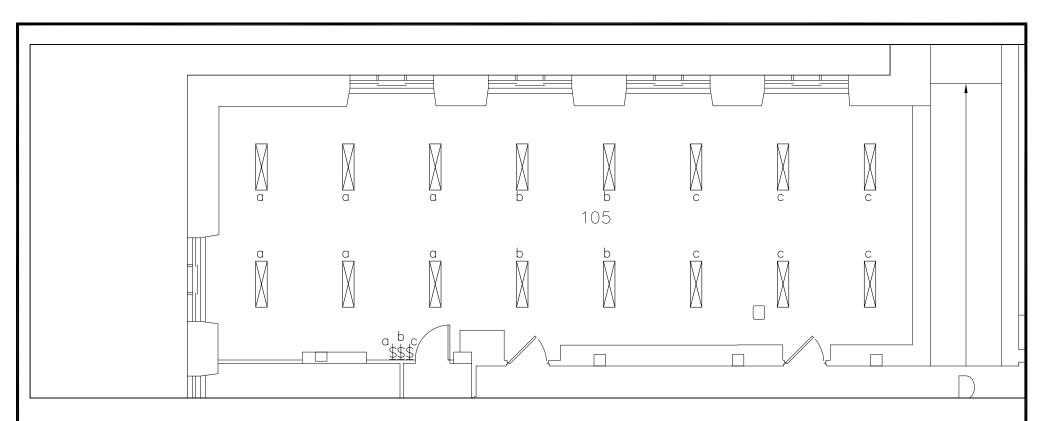
Electrical

- 3. Specification section 265000.2.4.1.8 CREE CR-LE series is an acceptable alternate for light type A.
- 4. Specification section 265000 Light type A is to include 0-10v dimming.
- 5. Light switching in new room 105 is to be zoned as shown on attached sketch 3894-SKE01. Use 3x 0-10V dimming switches compatible with light fixture type A. Philips SR3W or equal.
- 6. Circuit Air cooled chiller referred to on drawing 3894-M03 from panel 105B. Size breaker and wire according to manufactuerers specifications. Coordinate with mechanical contractor for exact sizes.

Mechanical:

- 7. Replace drawings M01 and M02- Issued for addendum 1 with drawings M01 and M02- Issued for addendum 2 attached.
- 8. Sink S4 to be free standing stainless steel with no side ledge, basis of design is Franke SL2424-1 (nominal size 691mmx 691mm x 1119mm high (total), 356mm bowl depth) custom hole locations, faucets to be Chicago Faucet model 942-CP with model 317 handles and a Chicago Faucet model 870-BPVC for distilled water faucet offset to right of sink.
- 9. Provide 200mm diameter (8") exhaust duct from future gas cabinet location to existing exhaust duct as indicated on drawing M02.

- 10. Note, sanitary drain to be connected to existing sanitary riser located in mechanical chase. Provide all traps and elbows as required. No coring required to connect sanitary piping to exisiting building services
- 11. Connection of nitrogen line to building (house) nitrogen piping to be coordinated with building supervisor and NRC representative.



ASPM 8.5x11

Conseil national de recherches Canada

Administrative Services and Property Management Branch

Division des services administratifs et gestion de l'immobilier

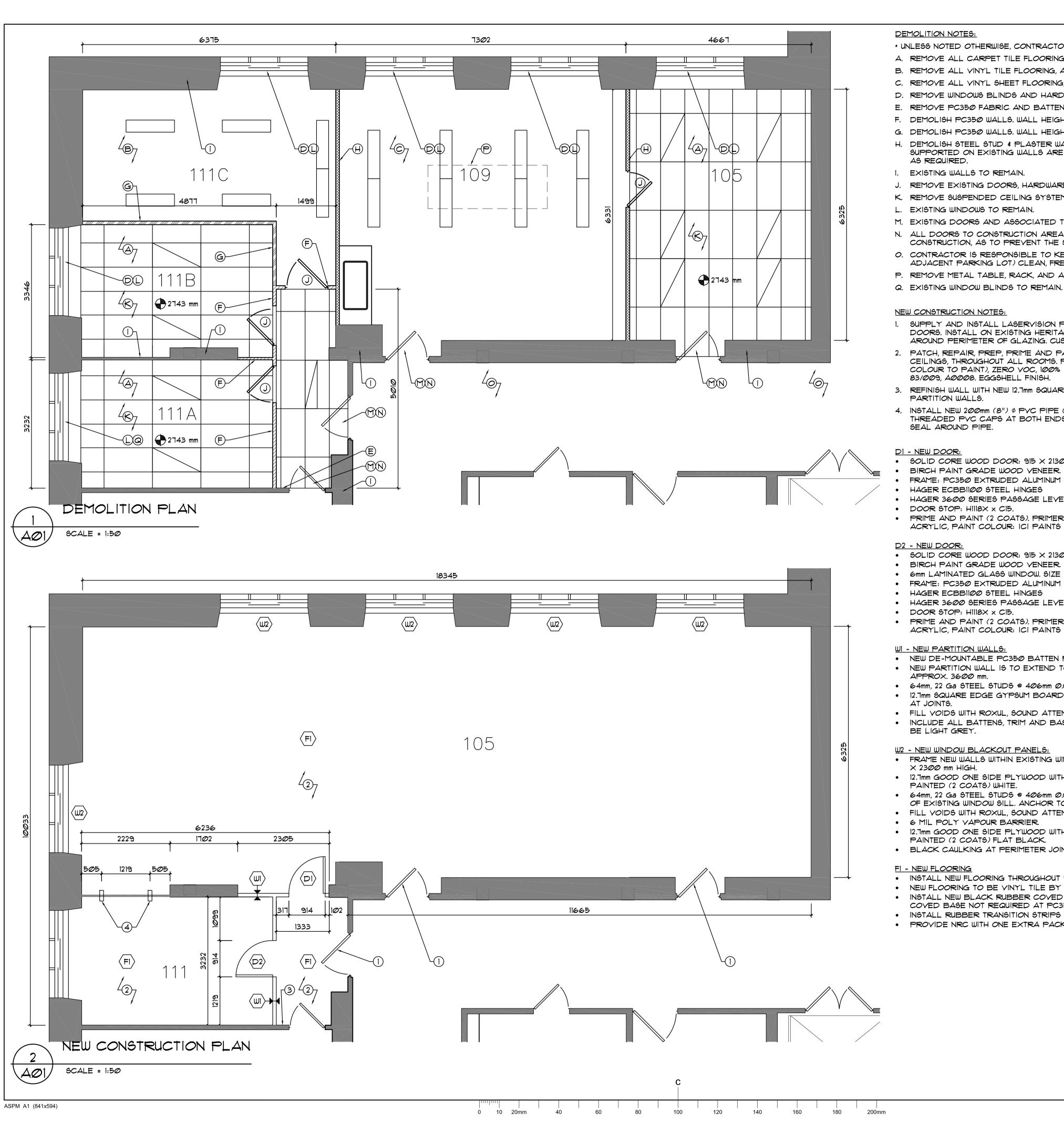
S-77 FIBRE PHOTONICS LASER LAB RENOVATION

LIGHT SWITCHING ADDENDUM #2

designed DJ.F. dessiné approved approuvé DJ.F. B.V. 9100024775 1 of/de 1

100 SUSSEX

date date scale échelle dwg.no. dessin no. 3894-SKE01 JAN 2014 1:100



* UNLESS NOTED OTHERWISE, CONTRACTOR IS RESPONSIBLE TO DISPOSE OF ALL ITEMS OFF SITE.

- A. REMOVE ALL CARPET TILE FLOORING, AND ASSOCIATED RUBBER COVED BASE THROUGHOUT ROOM.
- B. REMOVE ALL VINYL TILE FLOORING, AND ASSOCIATED RUBBER COVED BASE THROUGHOUT ROOM.
- C. REMOVE ALL VINYL SHEET FLOORING, AND ASSOCIATED RUBBER COVED BASE THROUGHOUT ROOM.
- D. REMOVE WINDOWS BLINDS AND HARDWARE, AND RETURN TO NRC.
- E. REMOVE PC350 FABRIC AND BATTEN FINISH, PREP WALL TO RECEIVE NEW DRYWALL
- F. DEMOLISH PC350 WALLS. WALL HEIGHT: 2743mm.
- G. DEMOLISH PC350 WALLS. WALL HEIGHT APPROX. 3600 mm.
- H. DEMOLISH STEEL STUD & PLASTER WALLS, WALL HEIGHT APPROX, 3600 mm. ANY AND ALL ITEMS SUPPORTED ON EXISTING WALLS ARE TO BE REMOVED AND/OR REINSTALLED ON OTHER SURFACES
- I. EXISTING WALLS TO REMAIN.
- J. REMOVE EXISTING DOORS, HARDWARE AND DOOR FRAMES.
- K. REMOVE SUSPENDED CEILING SYSTEM THROUGHOUT ROOM.
- L. EXISTING WINDOWS TO REMAIN.
- M. EXISTING DOORS AND ASSOCIATED TRIM TO REMAIN.
- N. ALL DOORS TO CONSTRUCTION AREA ARE TO REMAIN CLOSED THROUGHOUT DEMOLITION AND CONSTRUCTION, AS TO PREVENT THE SPREAD OF DUST TO OTHER PARTS OF THE BUILDING.
- O. CONTRACTOR IS RESPONSIBLE TO KEEP PATH OF TRAVEL (HALLWAY, ENTRANCE DOORS, AND ADJACENT PARKING LOT) CLEAN, FREE OF ANY DEBRIS AND CONSTRUCTION MATERIAL.
- P. REMOVE METAL TABLE, RACK, AND ALL ASSOCIATED ITEMS.

- SUPPLY AND INSTALL LASERVISION PORTABLE CURTAIN BCO.F5P01.5002 ON EXISTING HALLWAY DOORS. INSTALL ON EXISTING HERITAGE DOORS USING 3M "DUAL LOCK" I" PEEL AND STICK IT VELCRO AROUND PERIMETER OF GLAZING. CUSTOM SIZE CURTAIN TO FIT EXISTING DOORS.
- 2. PATCH, REPAIR, PREP, PRIME AND PAINT (2 COATS) ALL WALLS, BULK HEADS, CONDUITS AND CEILINGS, THROUGHOUT ALL ROOMS. PRIMER TO BE ICI DULUX LIFEMASTER PRIMER (IN CONTRASTING COLOUR TO PAINT), ZERO VOC, 100% ACRYLIC, PAINT COLOUR: ICI PAINTS "CRISP WHITE SHIRT" 60YR 83/009, A0008. EGGSHELL FINISH.
- 3. REFINISH WALL WITH NEW 12.7mm SQUARED EDGE GYPSUM BOARD AND BATTENS TO MATCH NEW
- 4. INSTALL NEW 200mm (8") \$ PYC PIPE (2 TOTAL) THROUGH EXISTING PARTITION WALL. COMPLETE WITH THREADED PVC CAPS AT BOTH ENDS. PIPE LENGTH: 305mm. INSTALL AT 610mm ABOVE T/O FLOOR.
- SOLID CORE WOOD DOOR: 915 × 2130 × 45mm (3'-0" × 7'-0" × 1 3/4").
- FRAME: PC35Ø EXTRUDED ALUMINUM FRAME, CLEAR ANODIZED FINISH.
- HAGER ECBBIIOO STEEL HINGES
- HAGER 3600 SERIES PASSAGE LEVER.
- DOOR STOP: HIII8X x CI5.
- PRIME AND PAINT (2 COATS). PRIMER TO BE ICI DULUX LIFEMASTER PRIMER, ZERO YOC, 100% ACRYLIC, PAINT COLOUR: ICI PAINTS "SNOWFIELD" ØØNN 72/000, A2010. SEMI-GLOSS FINISH.
- SOLID CORE WOOD DOOR: 915 × 2130 × 45mm (3'-0" × 7'-0" × 1 3/4").
- BIRCH PAINT GRADE WOOD YENEER.
- 6mm LAMINATED GLASS WINDOW. SIZE 762 × 610. FRAME: PC350 EXTRUDED ALUMINUM FRAME, CLEAR ANODIZED FINISH.
- HAGER ECBBIIOO STEEL HINGES
- HAGER 3600 SERIES PASSAGE LEVER.
- DOOR STOP: HIII8X x CI5.
- PRIME AND PAINT (2 COATS). PRIMER TO BE ICI DULUX LIFEMASTER PRIMER, ZERO VOC, 100% ACRYLIC, PAINT COLOUR: ICI PAINTS "SNOWFIELD" ØØNN 72/000, A2010. SEMI-GLOSS FINISH.

- NEW DE-MOUNTABLE PC35Ø BATTEN PARTITION.
- NEW PARTITION WALL IS TO EXTEND TO U/S OF EXISTING CEILING (AKA SLAB SLAB ABOVE) HEIGHT
- 64mm, 22 Ga STEEL STUDS @ 406mm O.C.
- 12.7mm SQUARE EDGE GYPSUM BOARD BOTH SIDES, PRIMED AND PAINTED TO MATCH WALLS. BATTEN
- FILL YOIDS WITH ROXUL, SOUND ATTENUATION INSULATION.
- INCLUDE ALL BATTENS, TRIM AND BASEBOARD FOR A COMPLETE INSTALLATION. BATTEN COLOR TO

W2 - NEW WINDOW BLACKOUT PANELS:

- FRAME NEW WALLS WITHIN EXISTING WINDOW OPENINGS. TYPICAL OPENING SIZE APPROX. 2330 mm WIDE
- 12.7mm GOOD ONE SIDE PLYWOOD WITH 50mm WOOD TRIM AT PERIMETER, AND ALL JOINTS. PRIMED AND
- 64mm, 22 Ga STEEL STUDS @ 406mm Ø.C. BOTTOM PLATE OF WALL TO BE ANGLED, TO FOLLOW SHAPE
- OF EXISTING WINDOW SILL. ANCHOR TO EXISTING STRUCTURE AT PERIMETER, AS REQUIRED. • FILL YOIDS WITH ROXUL, SOUND ATTENUATION INSULATION.
- 6 MIL POLY VAPOUR BARRIER.
- 12.7mm GOOD ONE SIDE PLYWOOD WITH 50mm WOOD TRIM AT PERIMETER, AND ALL JOINTS. PRIMED AND PAINTED (2 COATS) FLAT BLACK.
- BLACK CAULKING AT PERIMETER JOINT WITH EXISTING.
- INSTALL NEW FLOORING THROUGHOUT ROOMS 105, 111 AND ENTRY VESTIBULE.
- NEW FLOORING TO BE VINYL TILE BY ARMSTRONG, STYLE 51876 MINT CREAM.
- INSTALL NEW BLACK RUBBER COVED BASE AT ALL WALLS BORDERING NEW TILE FLOORING. RUBBER COVED BASE NOT REQUIRED AT PC350 WALLS.
- INSTALL RUBBER TRANSITION STRIPS AT AREAS BORDERING EXISTING FLOORING, WHERE REQUIRED. • PROVIDE NRC WITH ONE EXTRA PACKAGE OF TILES, TO BE USED AS SPARES.

de recherches Canada

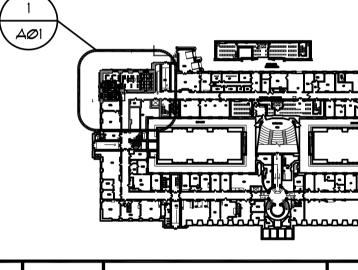
administratifs et gestion de l'immobilier



GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

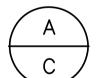




1	JAN 2014	ADDENDUM 2	BL
0	DEC 2013	ISSUED FOR TENDER	BL By:
No.	Date	Revision	

Verify all dimensions and site conditions and be responsible

o Vérifier toutes les dimensions et l'etat des liéux et en



Date Printed

No. du détail

B Location drawing no. sur dessin no.

Date imprimée

dessin no.

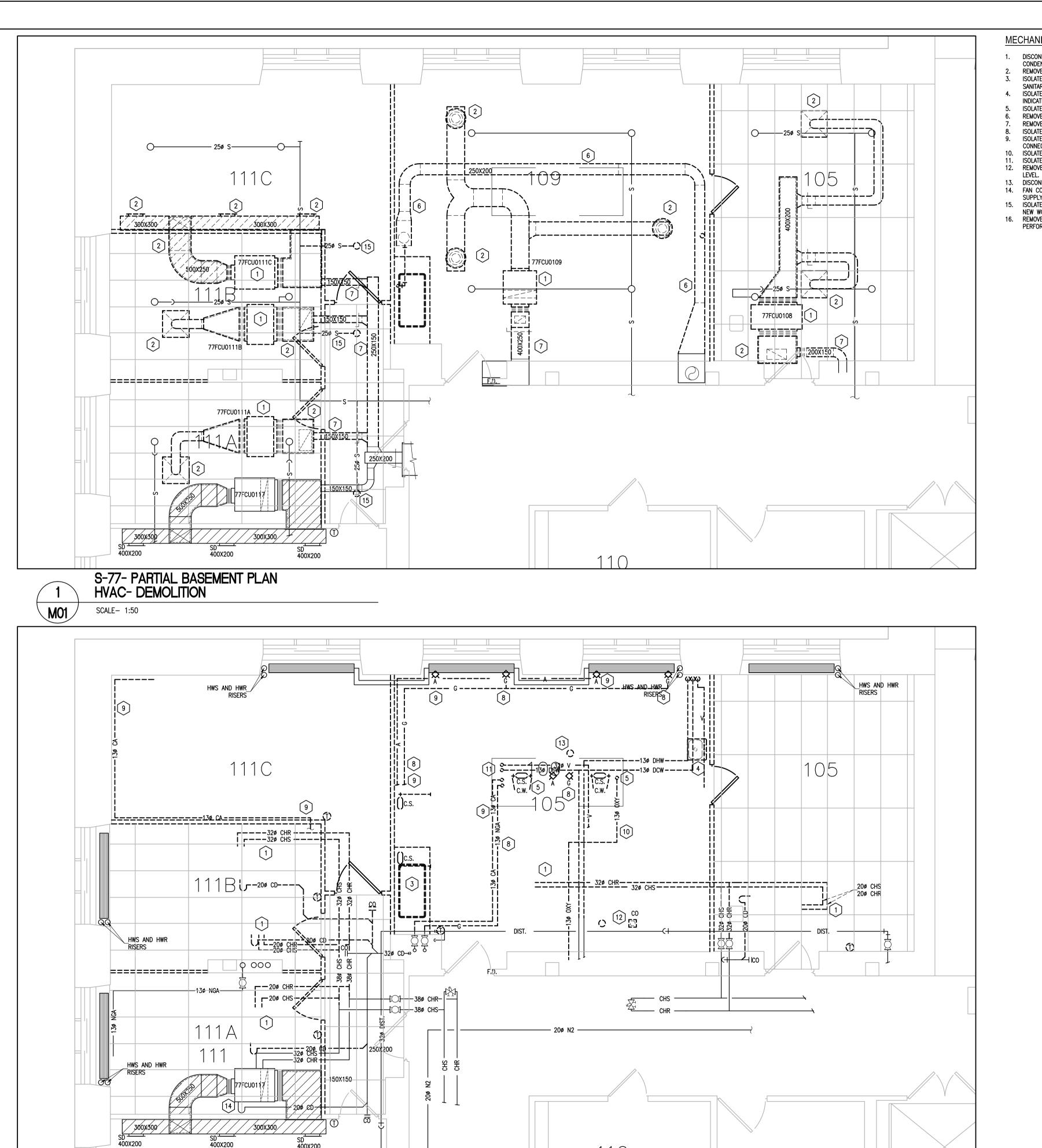
NEW FIBRE PHOTONICS LASER LAB

SUSSEX DRIVE CAMPUS

DEMOLITION AND NEW CONSTRUCTION PLANS

designed BL	conçu	date DE	EC 2013	3	date
drawn BL	dessiné	scale AS	NOTE)	échelle
checked SWI -	vérifié	sheet 1	of/de	1	feuille
approved	approuvé	W.O.no.			D.T.no.
BV		9100	0247	77	5

3894-A01



MECHANICAL DEMOLITION: (x)

- DISCONNECT AND REMOVE EXISTING FAN COIL UNITS, SUPPLY AND RETURN DUCTWORK, CHILLED WATER SUPPLY AND RETURN PIPING AND
- CONDENSATE PIPING AS INDICATED. DISPOSE OF ALL MATERIAL OFF SITE AS PER SPECIFICATIONS. REMOVE ALL DIFFUSERS AND RETURN AIR GRILLES AS INDICATED.
- ISOLATE, DISCONNECT AND REMOVE EXISTING SINK S1, ASSOCIATED DOMESTIC HOT WATER (DHW), DOMESTIC COLD WATER (DCW), VENT AND SANITARY PIPING AS INDICATED. CAP AND SEAL ALL UNUSED BRANCH PIPING AS SOURCE.
- ISOLATE, DISCONNECT AND REMOVE EXISTING SINK S2, ASSOCIATED DOMESTIC HOT WATER, DOMESTIC COLD WATER, VENT AND SANITARY PIPING AS
- ISOLATED, DISCONNECT AND REMOVE EXISTING LAB SINKS (S3'S), ASSOCIATED DOMESTIC COLD WATER, VENT AND SANITARY PIPING AS INDICATED. REMOVE AND DISPOSE EXHAUST DUCTWORK AS INDICATED. CAP AND SEAL DUCTWORK AT WALL AS INDICATED ON NEW WORK PLAN.
- REMOVE AND DISPOSE OUTDOOR AIR (OUT) SUPPLY AIR DUCTWORK AS INDICATED. ISOLATE, DISCONNECT AND REMOVE NATURAL GAS PIPING AND GAS OUTLETS AS INDICATED, CAP AND SEAL PIPING AT SOURCE.
- ISOLATE, DISCONNECT AND REMOVE COMPRESSED AIR PIPING AND COMPRESSED AIR OUTLETS AS INDICATED. CAP AND SEAL ALL UNUSED BRANCH CONNECTIONS AT SOURCE.
- 10. ISOLATE, DISCONNECT AND REMOVE HOUSE OXYGEN PIPING AND GAS OUTLETS AS INDICATED. CAP AND SEAL PIPING AT SOURCE. 11. ISOLATE AND REMOVE DISTILLED WATER PIPING TO REMOVED LAB SINKS AS INDICATED. CAN AND SEAL AT SOURCE.
- 12. REMOVE EXISTING SANITARY DRAIN AND CLEAN OUT STUBS FOR PREVIOUSLY REMOVED COLD ROOM. CONNECTIONS TO BE SEALED AT NEW FLOOR LEVEL. COORDINATE ALL CONCRETE REMOVAL WORK WITH FLOORING CONTRACTOR.
- 13. DISCONNECT, REMOVE AND CAP AT FLOOR SANITARY DRAIN FOR REMOVED LAB SINKS (S3'S). 14. FAN COIL UNIT 77FCUO117 SHALL REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION PERIOD, CONTRACTOR TO ASSURE THAT OUT DOOR AIR
- SUPPLY TO THIS UNIT IS NOT CONTAMINATED WITH CONSTRUCTION DUST. 15. ISOLATE, DISCONNECT AND REMOVE SPRINKLERS AND ASSOCIATED BRANCH PIPING AS INDICATED. RETAIN SPRINKLERS FOR REUSE AS INDICATED ON
- 16. REMOVE EXISTING PNEUMATIC THERMOSTATS, DDC THERMOSTATS AND ALL ASSOCIATED CONTROL WIRING AND TUBING. CONTROL WORK SHALL BE PERFORMED BY DIRECT ENERGY AND COORDINATED WITH AMERESCO AS PART OF THEIR ONGOING CONTRACT.

National Research Council Canada

administratifs et gestion de l'immobilier

NAC · CNAC

GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

MECHANICAL GENERAL NOTES:

- INSTALLATION OF ALL DCW, DHW, NEW SANITARY AND VENT PIPING TO BE INSTALLED AS PER NBC STANDARDS.
- ALL TRADES TO COORDINATE WORK ON SITE TO AVOID ANY CONFLICTS AND/ OR INTERFERENCES. ANY WORK REQUIRING THE SHUTDOWN OF ANY BUILDING SYSTEM IS TO
- BE COORDINATED WITH NRC REPRESENTATIVE AND BUILDING COORDINATOR.
- SHOP DRAWINGS MUST BE SUBMITTED TO NRC REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO INCLUDE ALL DESCRIPTIVE DATA FOR MECHANICAL EQUIPMENT AND COMPONENTS AS WELL AS NAME OF PROJECT, CONTRACTOR, NAME OF COMPONENT, MANUFACTURER AND MODEL NUMBER, OVERALL DIMENSIONS AND CLEARANCE DIMENSIONS, WEIGHTS. NOISE LEVELS AND EXTENDED WARRANTY COVERAGE. NOTE: ALL
- EQUIPMENT TO BE ORDERED QUICK SHIP.
 OBTAIN AND DISPLAY ALL REQUIRED PERMITS ON WORKSITE AND INCLUDE COPIES OF INSPECTION CERTIFICATES IN OPERATING AND MAINTENANCE
- KEEP SITE CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM
- WORK ON DAILY BASIS.
 BALANCE ALL SYSTEMS TO OPERATE AS DESIGNED.

2	JAN 2014	ADDENDUM 2	JWG
1	JAN 2014	ADDENDUM 1	JWG
0	DEC 2013	ISSUED FOR TENDER	JWG
No.	Date	Revision	By: Par:

Date Printed DD MM YYYY Date imprimée

o Verify all dimensions and site conditions and be responsible

o Vérifier toutes les dimensions et l'etat des liéux et en

assumer la responsabilité

No. du détail B Location drawing no. sur dessin no. C Drawing no.

BUILDING S-77- FIBRE PHOTONICS LAB RENOVATION

SUSSEX DRIVE

MECHANICAL DEMOLITION

JAN 2014 AS INDICATED checked 1 of/de 3 approved

dwg.no.

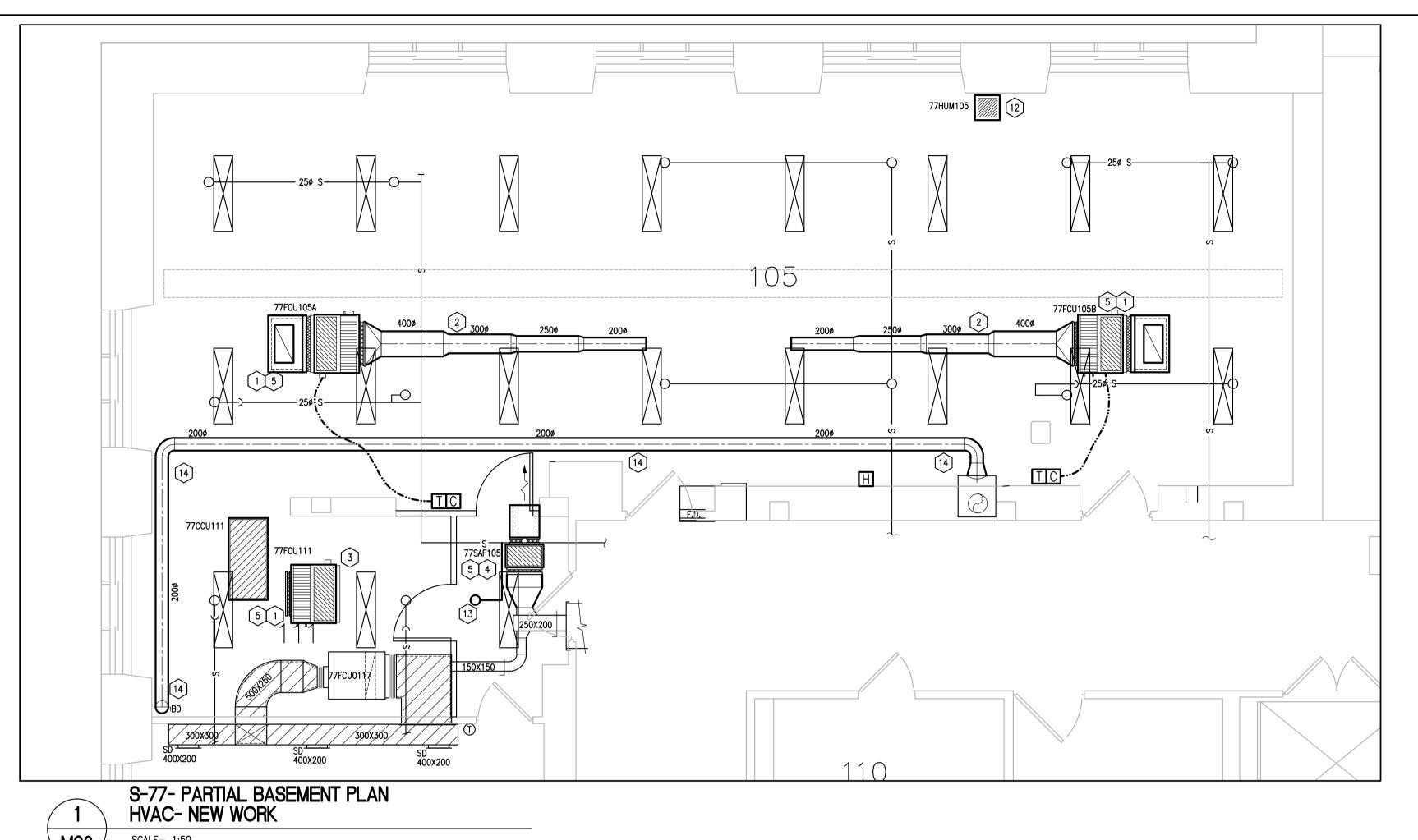
dessin no. 3894-M01

9100024775

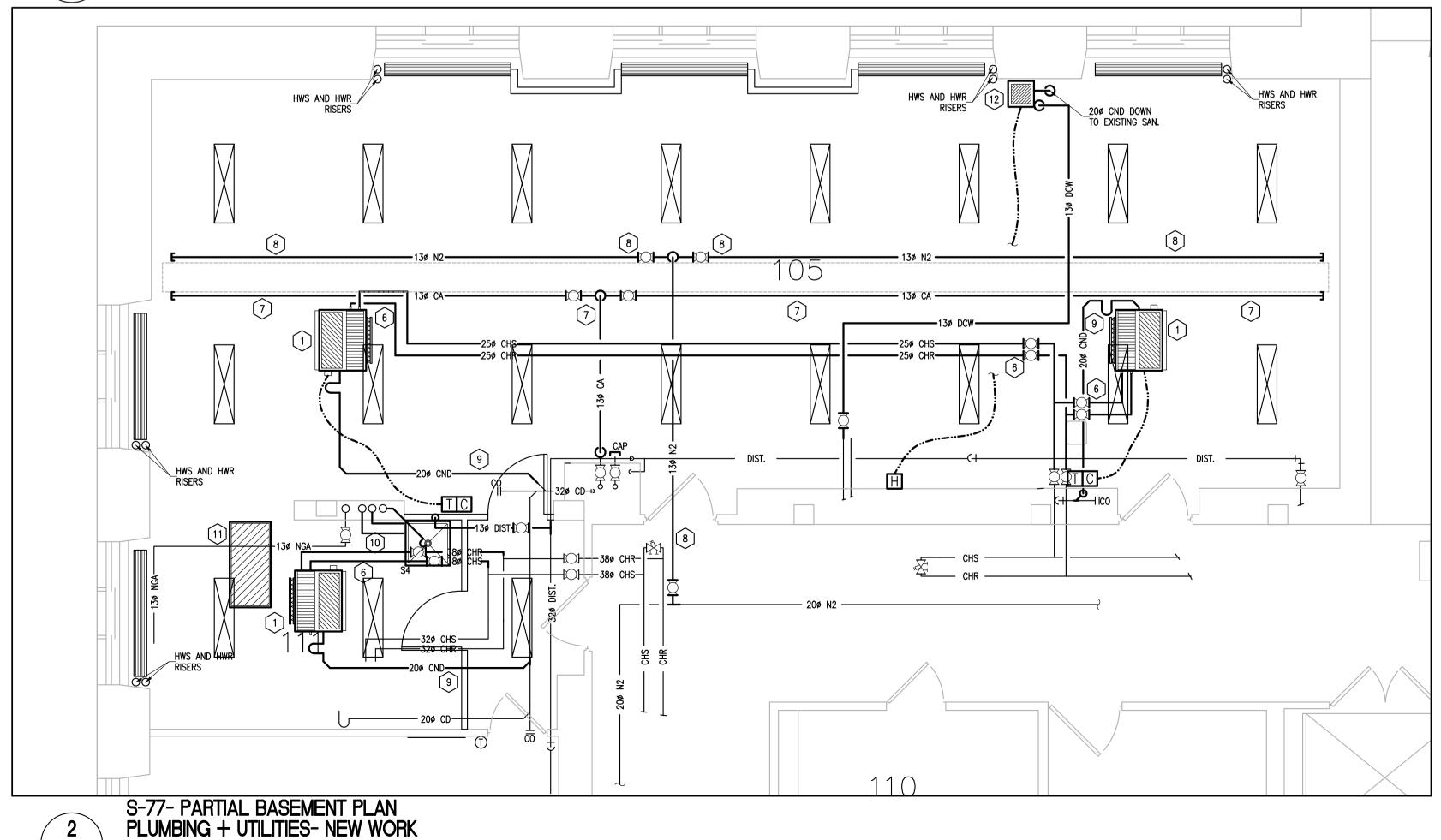
ASPM A1 (841x594)

S-77- PARTIAL BASEMENT PLAN PLUMBING + UTILIITIES- DEMOLITION

SCALE- 1:50



SCALE- 1:50



MECHANICAL NEW WORK: (X)

- PROVIDE NEW FAN COIL UNITS (77FCU105A, 77FCU105B AND 77FCU111) ASSOCIATED SUPPLY AND RETURN DUCTWORK (SIZED AS INDICATED). CHILLED WATER SUPPLY AND RETURN PIPING (CHS AND CHR) SIZED AS INDICATED, ISOLATION VALVES AND CONTROLS AS INDICATED. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE NEW PERFORATED DUCTWORK TO ACT AS DIFFUSERS FROM NEW FAN COIL UNITS LOCATED IN "FRED" LASER LAB, SIZED AS INDICATED. SIZE DUCTWORK AND PERFORATIONS TO PROVIDE AIR FLOW AT 94 L/S PER METER.
- PROVIDE AIR FILTERS ON INLET AND OUTLET OF FAN COIL UNIT 77FCU111. PROVIDE NEW PRESSURIZATION FAN C/W WITH FILTER ON INLET AND ASSOCIATED DUCTWORK AS INDICATED. FAN IS TO BE CONNECTED TO EXISTING TRANSFER GRILLE AND PROVIDE POSITIVE PRESSURE TO THE LASER ROOM. REFER TO SCHEDULE AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
- TEST ADJUST AND BALANCE NEW FAN COIL UNITS, PRESSURIZATION FAN AND SUPPLY AIR DUCT DUCT TO THE AIR FLOWS INDICATED. PROVIDE NEW CHILLED WATER SUPPLY (CHS), CHILLED WATER RETURN (CHR) FROM EXISTING TAKE-OFFS TO NEW FAN COIL UNITS AS INDICATED. INSULATE AND LABEL PIPING AS PER SPECIFICATIONS. PROVIDE REQUIRED ISÓLATION, CONTROL AND CIRCUIT BALANCING VALVES AS INDICATED.
- PROVIDE NEW COMPRESSED AIR PIPING AND EQUALLY SPACED ISOLATION VALVES SIZED AND LOCATED AS INDICATED. PIPING TO BE RUN ON THE UNDERSIDE OF THE ELECTRICAL TRAY AND HAVE SIX (6) 130 STUBS OUTS COMPLETE WITH BALL VALVES (THREADED ENDS TO 1/2" FNPT) EVERY 3 METERS (6 PER 10FT). APPROXIMATE TOTAL OF 34. VALVES ARE TO BE ALTERNATELY DIRECTED LEFT OR RIGHT TO ALLOW FOR CONNECTIONS FROM
- PROVIDE NEW COMPRESSED NITROGEN PIPING AND EQUALLY SPACED ISOLATION VALVES SIZED AND LOCATED AS INDICATED. PIPING TO BE RUN ON THE UNDERSIDE OF THE ELECTRICAL TRAY AND HAVE SIX (6) 13¢ STUBS OUTS COMPLETE WITH BALL VALVES (THREADED ENDS TO 1/2" FNPT) EVERY 3 METERS (6 PER 10FT). APPROXIMATE TOTAL OF 34. VALVES ARE TO ALTERNATELY DIRECTED LEFT OR RIGHT TO ALLOW FOR CONNECTIONS FOR EITHER SIDE OF ELECTRICAL TRAY.
- 9. PROVIDE NEW CONDENSATE PIPING FROM NEW FAN COIL UNITS SIZED AND LOCATED AS INDICATED. CONNECT TO EXISTING CONDENSATE DRAINS AS
- 10. PROVIDE NEW SINK (S4), DOMESTIC COLD WATER (DCW), DOMESTIC HOT WATER (DHW), DE-IONIZED WATER CONNECTION, SANITARY DRAIN AND VENT PIPING AS INDICATED. ALL NEW PIPING TO BE CONNECTED TO EXISTING BUILDING SERVICES AS INDICATED. FIRE STOP ALL OPENINGS AS PER N.B.C. AND TO THE SATISFACTION OF N.R.C. REPRESENTATIVE.
- 11. PROVIDE NEW CHILLER (77CCU111), INTEGRATED CIRCULATING PUMP, CONTROLS AND PIPING AS PER SPECIFICATIONS FOR CLIENT PRECISION HEAT EXCHANGER. REFER TO SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. CONFIRM CONNECTION SIZES FOR CLIENT EQUIPMENT
- BEFORE INSTALLATION. EXACT LOCATION TO BE DETERMINED ON SITE WITH CLIENT. 12. PROVIDE NEW WALL MOUNTED HUMIDIFIER (77HUM105) C/W BUILT ON BLOWER PACK AND WALL MOUNTED HUMIDISTAT AS INDICATED. REFER TO SCHEDULES FOR ADDITIONAL INFORMATION. PROVIDE INDIRECT CONNECT (HUB DRAIN, MIN 50¢ DIA) FOR DRAIN FROM HUMIDIFIER.
- 13. RELOCATE RETAINED SPRINKLERS AS INDICATED TO PROVIDE FULL COVERAGE AS PER NFPA 13. NOTE THAT ALL SPRINKLERS ARE TO BE MOUNTED
- 14. PROVIDE NEW EXHAUST DUCT SIZED AND LOCATED AS INDICATED FOR FUTURE GAS CABINET. PROVIDE BALANCING DAMPER AT DROP FOR FUTURE CONNECTION. DAMPER TO BE FULLY SHUT AND LOCKED IN POSITION TEMPORARILY. EXHAUST DUCT OPEN END SHALL BE 2400MM AFF TO ALLOW FOR FINAL CONNECTIONS.

National Research Council Canada

administratifs et gestion de l'immobilier

NAC · CNAC

GENERAL NOTES

- CONTRACTORS TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO DEMOLITION OR CONSTRUCTION AND REPORT ANY ERRORS OR OMISSIONS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTORS MUST VISIT THE SITE & FULLY FAMILIARIZE THEMSELVES WITH THE SCOPE OF THE WORK.
- PREVENT THE SPREAD OF DUST & DEBRIS BEYOND THE WORK AREA AND CLEAN ALL SURFACES AT COMPLETION.
- MAKE GOOD ALL SURFACES AFFECTED BY THIS WORK.
- COORDINATE ALL SHUTDOWNS WITH THE DEPARTMENTAL REPRESENTATIVE.
- PROVIDE ALL LABOUR AND MATERIAL REQUIRED TO FORM A COMPLETE, FUNCTIONAL SYSTEM AS DESCRIBED ON DRAWINGS.

MECHANICAL GENERAL NOTES:

COORDINATOR.

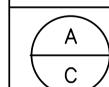
- INSTALLATION OF ALL DCW, DHW, NEW SANITARY AND VENT PIPING TO BE INSTALLED AS PER NBC STANDARDS. ALL TRADES TO COORDINATE WORK ON SITE TO AVOID ANY CONFLICTS
- AND/ OR INTERFERENCES. ANY WORK REQUIRING THE SHUTDOWN OF ANY BUILDING SYSTEM IS TO BE COORDINATED WITH NRC REPRESENTATIVE AND BUILDING
- SHOP DRAWINGS MUST BE SUBMITTED TO NRC REPRESENTATIVE FOR REVIEW AND APPROVAL. SHOP DRAWINGS TO INCLUDE ALL DESCRIPTIVE DATA FOR MECHANICAL EQUIPMENT AND COMPONENTS AS WELL AS NAME OF PROJECT, CONTRACTOR, NAME OF COMPONENT, MANUFACTURER AND MODEL NUMBER, OVERALL DIMENSIONS AND CLEARANCE DIMENSIONS, WEIGHTS, NOISE LEVELS AND EXTENDED WARRANTY COVERAGE. NOTE: ALL
- EQUIPMENT TO BE ORDERED QUICK SHIP.
 OBTAIN AND DISPLAY ALL REQUIRED PERMITS ON WORKSITE AND INCLUDE COPIES OF INSPECTION CERTIFICATES IN OPERATING AND MAINTENANCE
- KEEP SITE CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM
- WORK ON DAILY BASIS.
 BALANCE ALL SYSTEMS TO OPERATE AS DESIGNED.

2	JAN 2014	ADDENDUM 2	JWG
1	JAN 2014	ADDENDUM 1	JWG
0	DEC 2013	ISSUED FOR TENDER	JWG
No.	Date	Revision	By: Par:

Date Printed DD MM YYYY Date imprimée

o Verify all dimensions and site conditions and be responsible

o Vérifier toutes les dimensions et l'état des liéux et en assumer la responsabilité



No. du détail B Location drawing no. sur dessin no. C Drawing no.



dessin no.

BUILDING S-77- FIBRE PHOTONICS LAB RENOVATION

SUSSEX DRIVE

MECHANICAL- NEW WORK

designed	conçu	date dat
JWG		JAN 2014
drawn	dessiné	scale échelle
JWG		AS INDICATED
checked	vérifié	sheet feuille
		2 of/de 3
approved	approuvé	W.O.no. D.T.no
BV		9100024775

3894-M02

ASPM A1 (841x594)

SCALE- 1:50