

SCALE- 1:50

PLUMBING + UTILIITIES- DEMOLITION

HWS AND HWR HWS AND HWR_ 9 13 111C 109 9 8 HWS AND HWR RISERS φ 000 _=====i. /300X300/ 110 S-77- PARTIAL BASEMENT PLAN

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. ISOLATE, DISCONNECT AND REMOVE HOUSE OXYGEN PIPING AND GAS OUTLETS AS INDICATED. CAP AND SEAL PIPING AT SOURCE.
- 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 77FCU0117 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.

Conseil national Division des services administratifs et gestion de l'immobilier



GENERAL NOTES

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- 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

MECHANICAL GENERAL NOTES:

DRAWINGS.

- INSTALLATION OF ALL DCW, DHW, NEW SANITARY AND VENT PIPING TO BE INSTALLED AS PER NBC STANDARDS.
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- 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: ALI
- EQUIPMENT TO BE ORDERED QUICK SHIP.

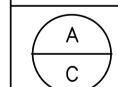
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- MANUALS. KEEP SITE CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM
- WORK ON DAILY BASIS. BALANCE ALL SYSTEMS TO OPERATE AS DESIGNED.

1	JAN 2014	ADDENDUM 1	JWG
0	DEC 2013	ISSUED FOR TENDER	JWG
No.	Date	Revision	By: Par:
\vdash			1 01.

Date Printed DD MM YYYY Date imprimée

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



A Detail no. No. du détail sur dessin no.

B Location drawing no. C Drawing no.

dessin no.

BUILDING S-77- FIBRE PHOTONICS LAB RENOVATION

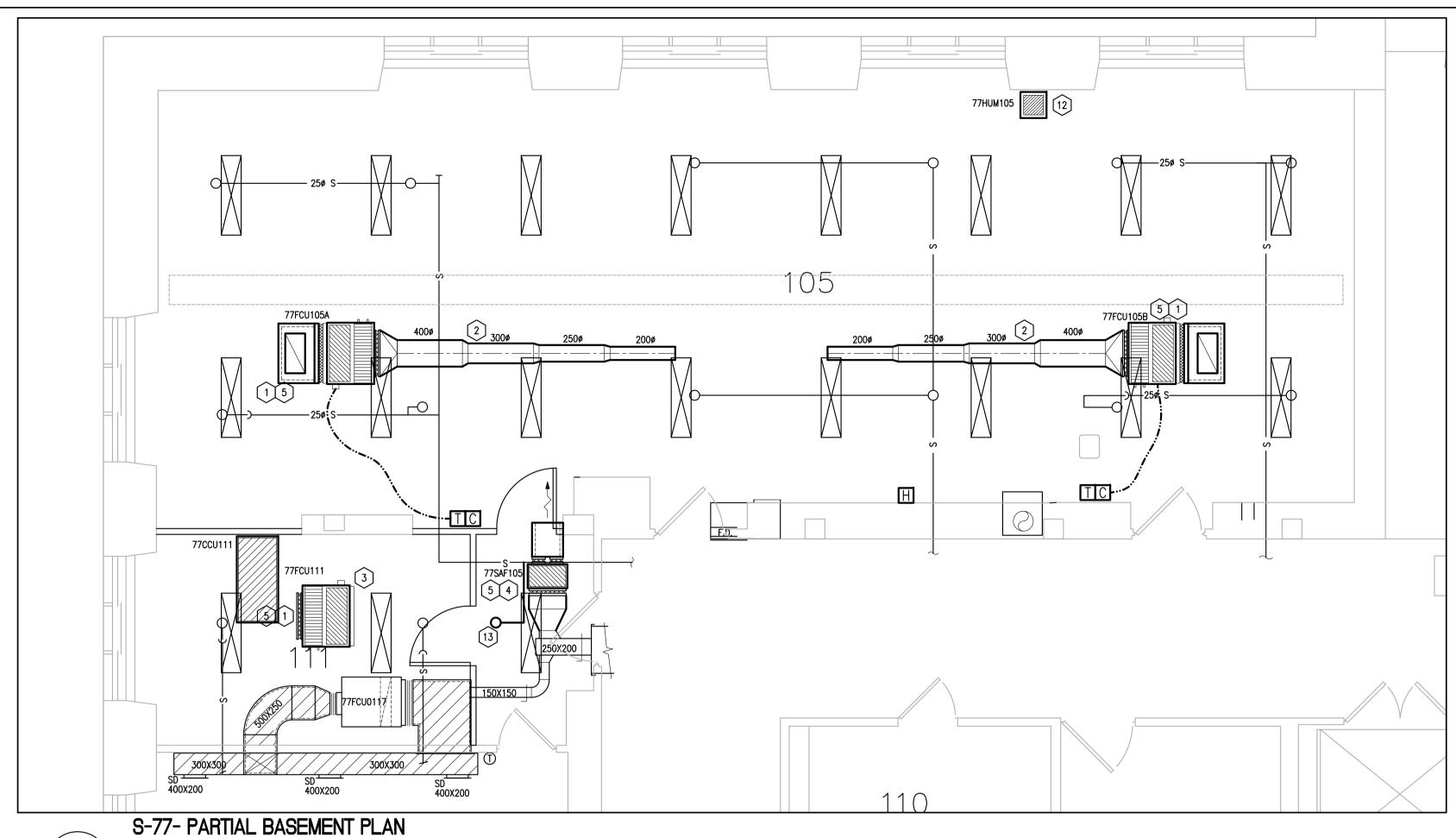
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MECHANICAL DEMOLITION

designed		conçu	date			date
	JWG		J	AN 2014	1	
drawn	JWG	dessiné	scale AS IN	NDICAT	ED	échelle
checked		vérifié	sheet 1	of/de	3	feuille
approved		approuvé	W.O.no.			D.T.no.
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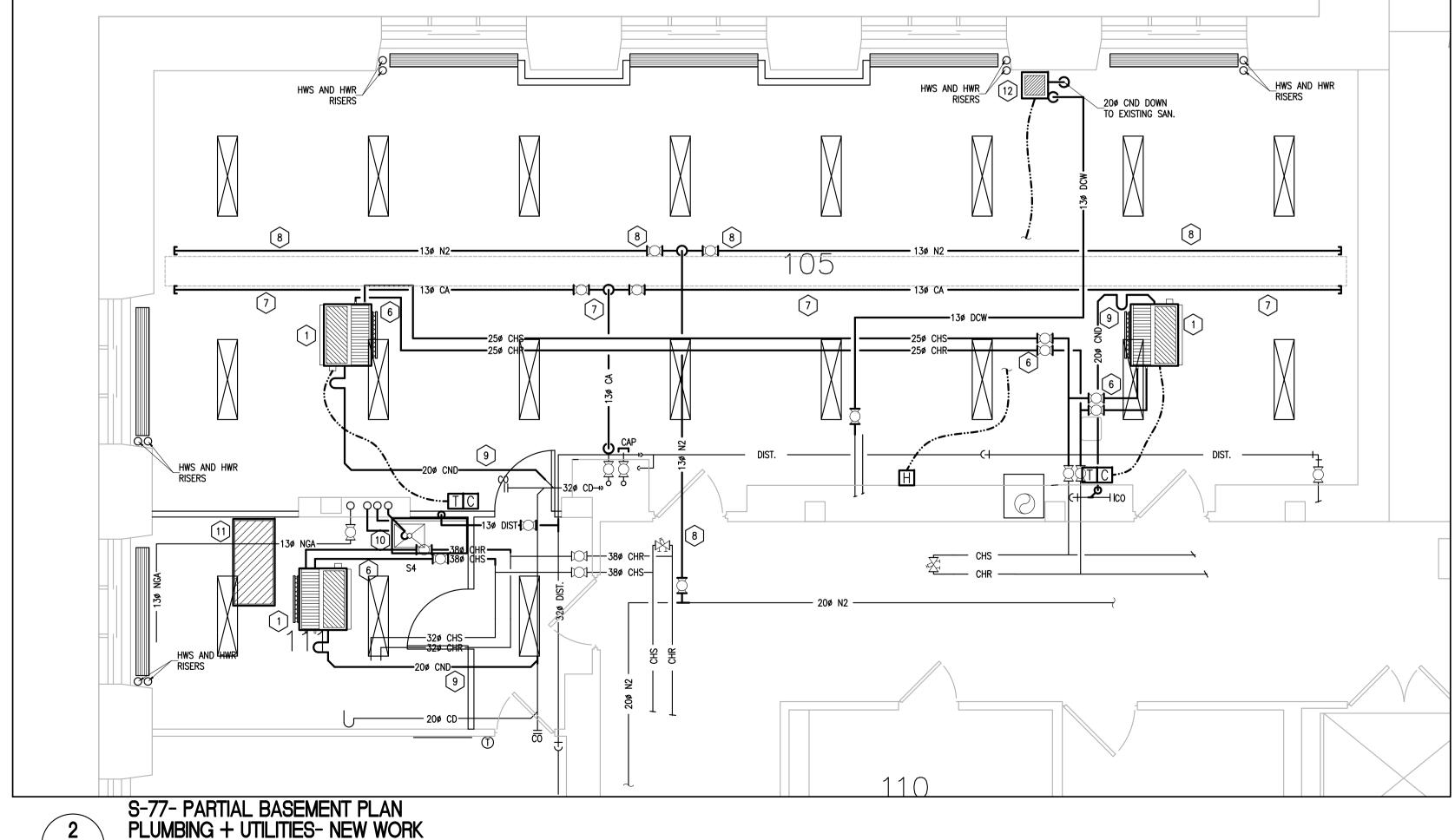
3894-M01

SCALE- 1:50 ASPM A1 (841x594)



1 HVAC- NEW WORK

SCALE- 1:50



MECHANICAL NEW WORK: X

- 1. 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.

 2. 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
- SIZE DUCTWORK AND PERFORATIONS TO PROVIDE AIR FLOW AT 94 L/S PER METER.

 3. PROVIDE AIR FILTERS ON INLET AND OUTLET OF FAN COIL UNIT 77FCU1111.
- 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.
- 6. 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 ISOLATION, 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
- EITHER SIDE OF ELECTRICAL TRAY.

 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) 13ø 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

METERS (6 PER 10FT). APPROXIMATE TOTAL OF 34. VALVES ARE TO BE ALTERNATELY DIRECTED LEFT OR RIGHT TO ALLOW FOR CONNECTIONS FROM

- FOR EITHER SIDE OF ELECTRICAL TRAY.
 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 500 DIA) FOR DRAIN FROM HUMIDIFIER.
- 13. RELOCATE RETAINED SPRINKLERS AS INDICATED TO PROVIDE FULL COVERÂGE AS PER NFPA 13. NÔTE THAT ALL SPRINKLERS ARE TO BE MOUNTED ABOVE LIGHTING LEVEL.

National Research Council Canada

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MECHANICAL GENERAL NOTES:

- INSTALLATION OF ALL DCW, DHW, NEW SANITARY AND VENT PIPING TO BE INSTALLED AS PER NBC STANDARDS.
- 2. ALL TRADES TO COORDINATE WORK ON SITE TO AVOID ANY CONFLICTS
 AND/ OR INTERFERENCES.
 3. ANY WORK REQUIRING THE SHUTDOWN OF ANY BUILDING SYSTEM IS TO
- BE COORDINATED WITH NRC REPRESENTATIVE AND BUILDING COORDINATOR.

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 OBTAIN AND DISPLAY ALL REQUIRED PERMITS ON WORKSITE AND INCLUDE
- COPIES OF INSPECTION CERTIFICATES IN OPERATING AND MAINTENANCE
 MANUALS.
- MANUALS.
 6. KEEP SITE CLEAR OF RUBBISH AND WASTE MATERIAL RESULTING FROM
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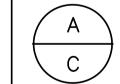
 7. BALANCE ALL SYSTEMS TO OPERATE AS DESIGNED.

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

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A Detail no.
No. du détail
B Location drawing no.
sur dessin no.

BUILDING S-77- FIBRE PHOTONICS LAB RENOVATION

C Drawing no.
dessin no.

SUSSEX DRIVE

MECHANICAL- NEW WORK

designed	conçu	date date
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

dessin no.

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3894-M02

MO2 SCALE - 1:50

ASPM A1 (841x594)

	CHILLED WATER HORIZONTAL FAN COIL SCHEDULE																					
	COOLING COIL CAPACITIES								HEATING COIL CAPACITIES													
TAG	LOCATION	T.C. (kW)	S.C. (kW)	EDBT	EWBT	LDBT	E.W.T.	L.W.T.	FLOW RATE (L/M)	S.H.C. (WATTS)	EDBT	P.D. Pa	LDBT	E.W.T.	L.W.T.	FLOW RATE (L/M)	AIR FLOW L/S MAX	S.P. (Pa)	MOTOR (HP)	FLA/MCA/MOC	V/P/HZ	REMARKS
77FCU105A	ROOM 105	8.35	6.59	26.7°C	19.4°C	12.8°C	7.2°C	12.8°C	24.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	376	63	1/6	2.5//15	120/1/60	NEW- SEE BELOW FOR DETAILS
77FCU105A	ROOM 105	8.35	6.59	26.7°C	19.4°C	12.8°C	7.2°C	12.8°C	24.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	376	63	1/6	2.5//15	120/1/60	NEW- SEE BELOW FOR DETAILS
77FCU111	ROOM 111	12.13	9.17	26.7°C	19.4°C	12.8°C	7.2°C	12.8°C	34.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	705	63	2X 1/6	5.0//	120/1/60	NEW- SEE BELOW FOR DETAILS

NEW UNITS IN ROOM 105 ARE BASED ON ENVIROTECH MODEL HLF 50 NEW UNIT IN ROOM 111 IS BASED ON ENVIROTECH MODEL HLF 60

REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS

	AIR COOLED CHILLER SCHEDULE																
TAG	LOCATION	T.C. (kW)	S.C. (kW)	S.W.T.	R.W.T.	PUMP Type	S.P. (BAR)	FLOW RATE (L/M)	AMB. HIGH TEMP	AMB. LOW TEMP	PUMP MOTOR (H.P.)	RES. VOLUME (L)	DIMENSIONS L X D X H (MM)	WEIGHT (KG)	FLA/MCA/MOC	V/P/HZ	REMARKS
77CCU111	ROOM 105	10		5°C	_		4.1	75.7	32°C	-	ı	17.9	1327X639X856	184	//	208/3/60	NEW

1. UNIT 77CCU111 IS BASED ON A NESLAB THERMOFLEX 10000 AND IS USED TO SUPPLY CHILLED WATER TO CLIENT SUPPLIED CHILLERS FOR "FRED" LASER.

SUPPLY FAN SCHEDULE													
No.	LOCATION	DRIVE TYPE	FAN TYPE	L/S	S.P. (Pa.)	FAN RPM	SONES	VOLTAGE	AMPS	WATTS	REMARKS		
77SAF105	VESTIBULE	DIRECT	CABINET	347	63	1100	2.0	120/1/60	1.32	350	NEW		
NOTE:													

1. FAN 77SAF105 BASED ON A GREENHECK CSP-A700 AND IS USED TO PRESSURIZE ROOM 105

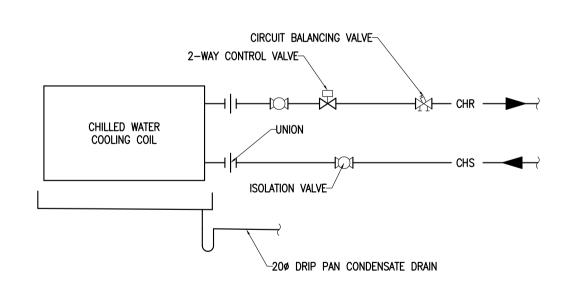
			FIXT	URE SC	HEDUL	E	
TAG	Fixture Type	DCW	DHW	DIW	SAN	VENT	REMARKS
S1	SINK	13ø	13ø	13ø	38ø	32ø	REMOVED
S2	SINK	13ø	13ø		38ø	32ø	REMOVED
S3	LAB SINK	13ø		13ø	38ø	23ø	REMOVED
S4	SERVICE SINK	13ø	13ø	13ø	38ø	38ø	NEW

NOTES:

- NEW FIXTURES ARE TO BE CONNECTED TO EXISTING DOMESTIC COLD WATER, DOMESTIC HOT WATER, DE-IONIZED WATER, SANITARY DRAIN AND VENT SERVICES. ALL NEW DOMESTIC COLD, DOMESTIC HOT TO BE
- INSULATED AS PER SPECIFICATIONS. ALL SANTIARY PIPING TO BE SLOPED AS PER NATIONAL BUILDING CODE STANDARDS (NBC).

	ELECTRIC STEAM HUMIDIFIER SCHEDULE												
No.	LOCATION	MOUNTING	DISTRIBUTOR	KG/HR	INPUT (KW)	VOLTAGE	AMPS	NUMBER OF CYLINDER	REMARKS				
77HUM105	ROOM 105	WALL	BLOWER PACK	0.9-4.55	3.8	208/1/60	-	1	NEW				

HUMIDIFIER IS BASED ON A NORTEC MODEL NH-EL 10 C/W BUILT ON BLOWER PACK.
 ROOM RELATIVE HUMIDITY SHALL BE SET TO 40% RH.





FAN COIL PIPING SCHEMATIC- CHILLED WATER

SCALE: N.T.S.

de recherches Canada Administrative Services
and Property Management
Branch

Division des services
administratifs et gestion
de l'immobilier

Conseil national



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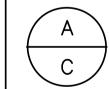
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BUILDING S-77- FIBRE PHOTONICS LAB RENOVATION

SUSSEX DRIVE

MECHANICAL- DETAILS AND SCHEDULES

designed		conçu	date date	- e
	JWG		JAN 2014	
drawn	JWG	dessiné	AS INDICATED Échelle	•
checked		vérifié	sheet feuille 3 of/de 3	•
approved		approuvé	W.O.no. D.T.no	
	BV		9100024775	

3894-M03

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