



Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada

LONDON ONTARIO

Agriculture and Agri-Food Canada
Southern Crop Protection & Food Research Centre
1391 Sandford Street

4 COLD ROOMS AND
1 GROWTH ROOM PROJECT

LIST OF DRAWINGS

ARCHITECTURAL

- A000 COVER SHEET & LIST OF DRAWINGS
- A001 KEY PLANS AND SYMBOLS LEGEND

- A200 ENLARGED FLOOR PLANS, ELEVATIONS AND DETAILS
- A201 ENLARGED FLOOR PLANS, ELEVATIONS AND DETAILS

MECHANICAL

- M101 MECHANICAL LEGEND, DRAWING LIST, SCHEDULES AND DEMOLITION
- M201 PART FLOOR PLANS MECHANICAL
- M302 PART FLOOR PLANS MECHANICAL, CONTROLS AND SECTIONS

ELECTRICAL

- E101 ELECTRICAL LEGEND, ABBREVIATIONS, PLANS, DETAILS AND ELECTRICAL RISER

ISSUED FOR:

ISSUED FOR TENDER

DATE ISSUED:

DECEMBER 19, 2013

C+B PROJECT No.:

7259

R+PA PROJECT No.:

1314



Chorley + Bisset
CONSULTING ENGINEERS

369 YORK ST., SUITE 2B, LONDON ON, CANADA N6B 3R4
P: 519-679-8660 F: 519-679-2145 chorley.com

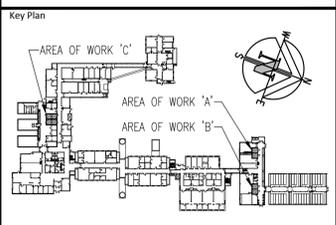


Reich + Petch
ARCHITECTS

1867 YONGE ST., STE 1100, TORONTO ON CANADA M4S 1Y5
T 416 480 2020 F 416 480 1881

SYMBOLS LEGEND:

	ROOM NAME
	ROOM NAME & NUMBER
	DETAIL REFERENCE TAG
	BUILDING SECTION REFERENCE TAG
	WALL SECTION/ SECTION DETAILS REFERENCE TAG
	ELEVATION REFERENCE TAG
	INTERIOR ELEVATION REFERENCE TAG
	FINISHES REFERENCE TAG
	GRID TAG
	DOOR TAG (REFER TO DOOR SCHEDULE)
	NOTE TAGS
	INTERIOR PARTITION ASSEMBLY (REFER TO THIS DRAWING)
	CEILING ASSEMBLY (REFER TO THIS DRAWING)
	FURRING ASSEMBLY (REFER TO THIS DRAWING)
	ROOF ASSEMBLY (REFER TO THIS DRAWING)
	FLOOR ASSEMBLY (REFER TO THIS DRAWING)
	DATUM REFERENCE TAG
	SPOT ELEVATION REFERENCE TAG



Revisions

Revisions	Date
1 ISSUED FOR 50% SUBMISSION	17 OCT 2013
2 ISSUED FOR 90% SUBMISSION	15 NOV 2013
3 ISSUED FOR 99% SUBMISSION	06 DEC 2013
4 ISSUED FOR TENDER	19 DEC 2013

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W. A. PETCH
LICENCE 3331

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	Detail No.
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project title
titre du projet

LONDON ONTARIO
Agriculture and Agri-Food Canada
1391 Sandford Street

4 COLD ROOMS AND 1 GROWTH ROOM PROJECT

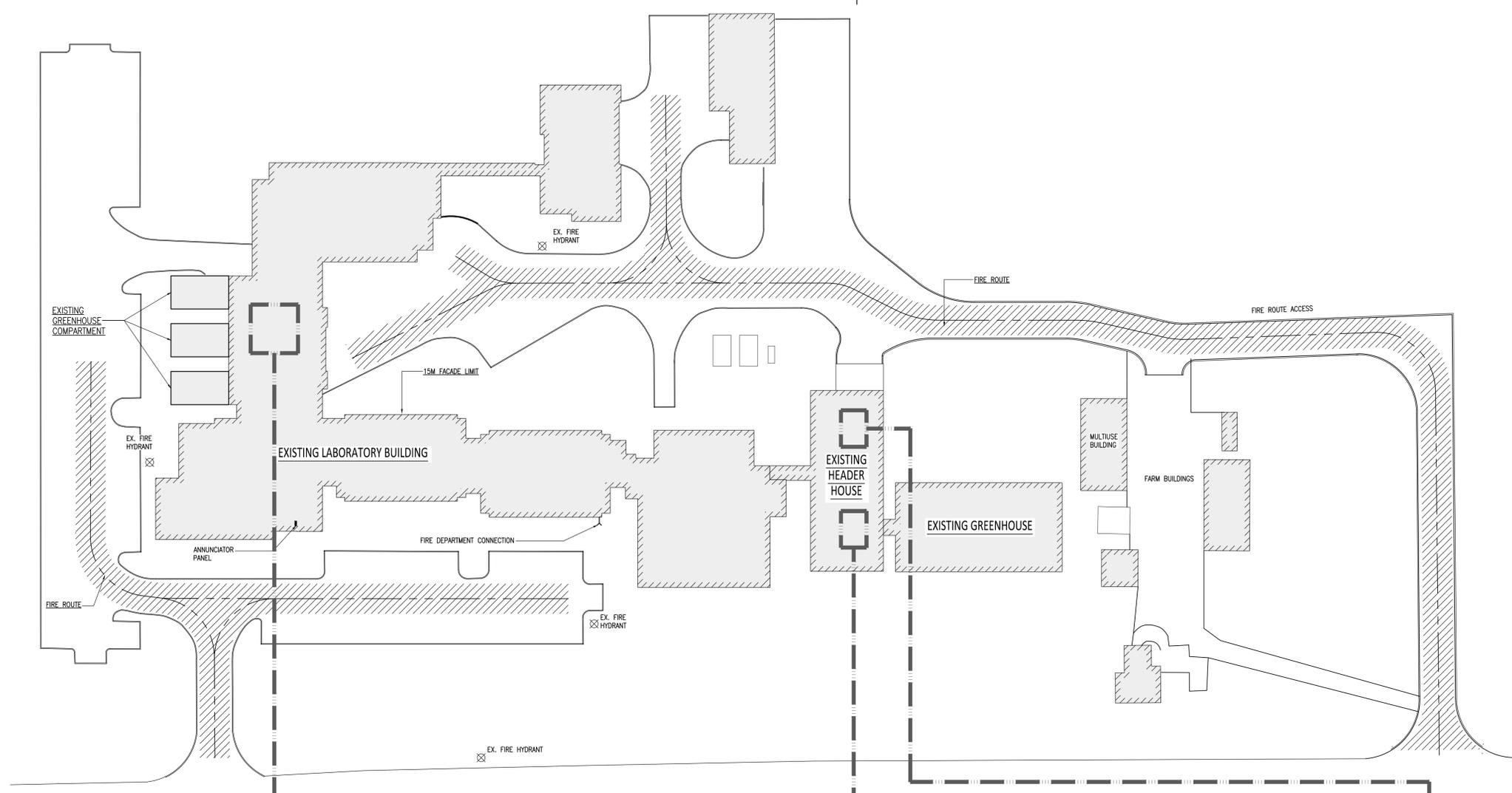
drawing title
titre du dessin

KEY PLANS AND SYMBOLS LEGEND

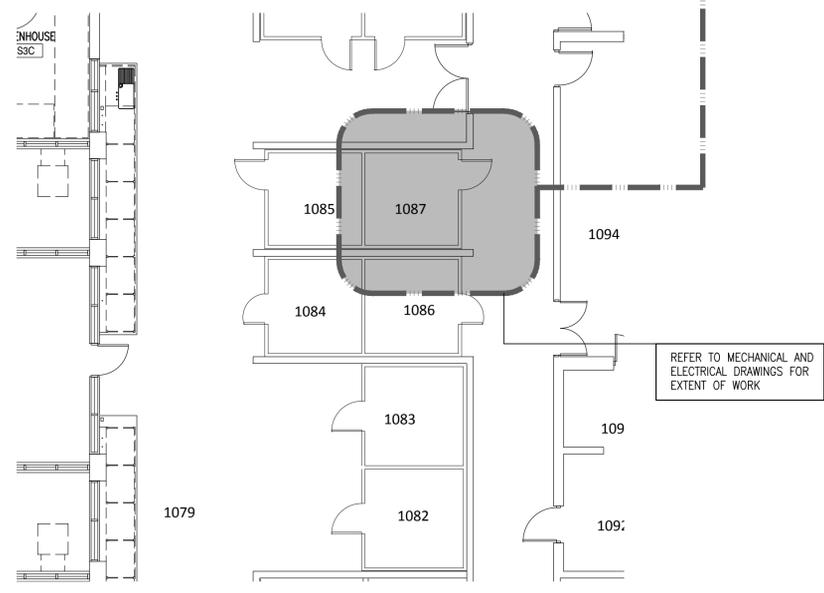
designed by conçue par	R+PA
drawn by dessinée par	R+PA
reviewed by examiné par	-
approved by approuvé par	AAFC
project date date du projet	2013-09-06
AAFC project no. no. du projet	-
R+PA project no. no. du projet	1314

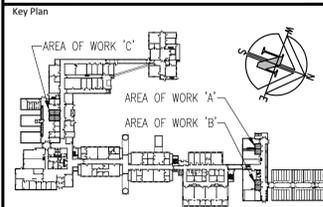
drawing no.
dessin no.

A001



1 AGRICULTURE AND AGRI-FOOD CANADA OVERALL KEYPLAN
SCALE: 1:500



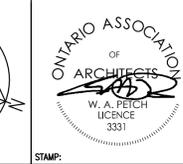
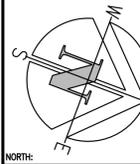


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 Agriculture and Agri-Food Canada
 1391 Sandford Street

4 COLD ROOMS AND 1 GROWTH ROOM PROJECT

drawing title
 titre du dessin
ENLARGED FLOOR PLANS ELEVATIONS AND DETAILS

designed by conc par R+PA

drawn by dessine par R+PA

reviewed by examine par -

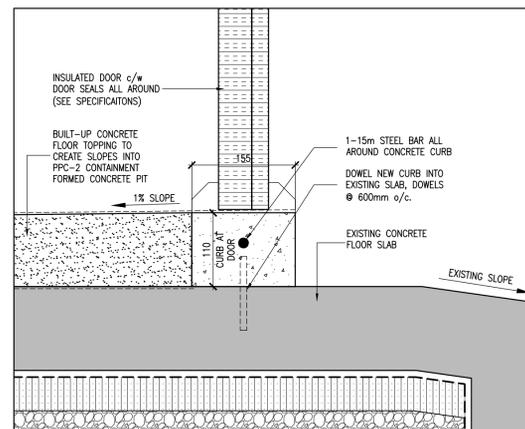
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project date date du projet 2013-09-06

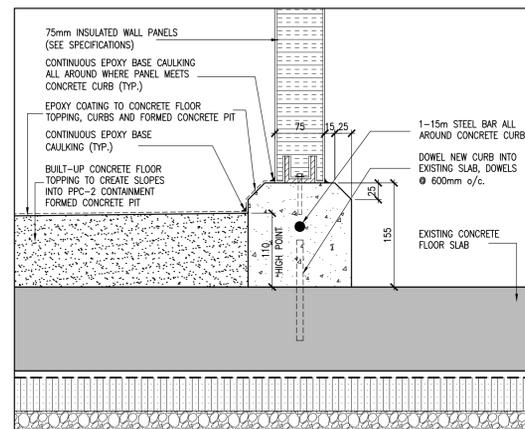
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R+PA project no. no. du projet 1314

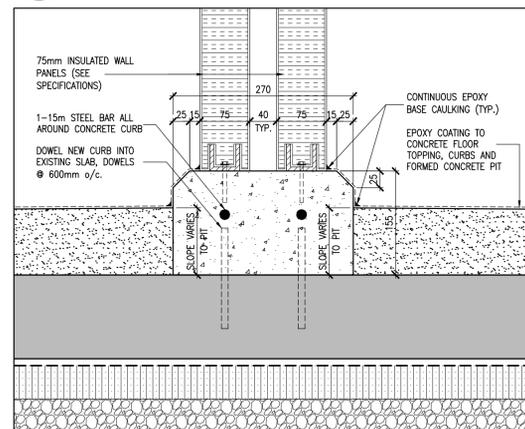
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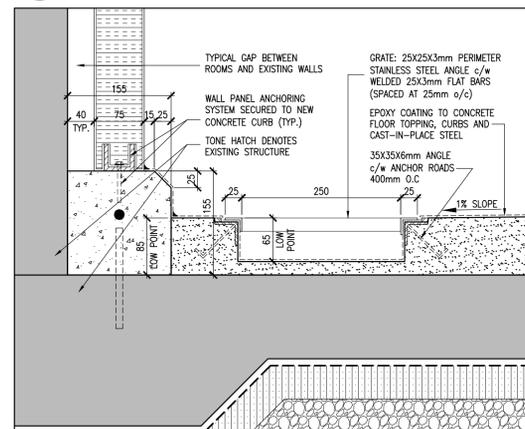
7 SECTION DETAIL
A200/A200 SCALE: 1 : 5



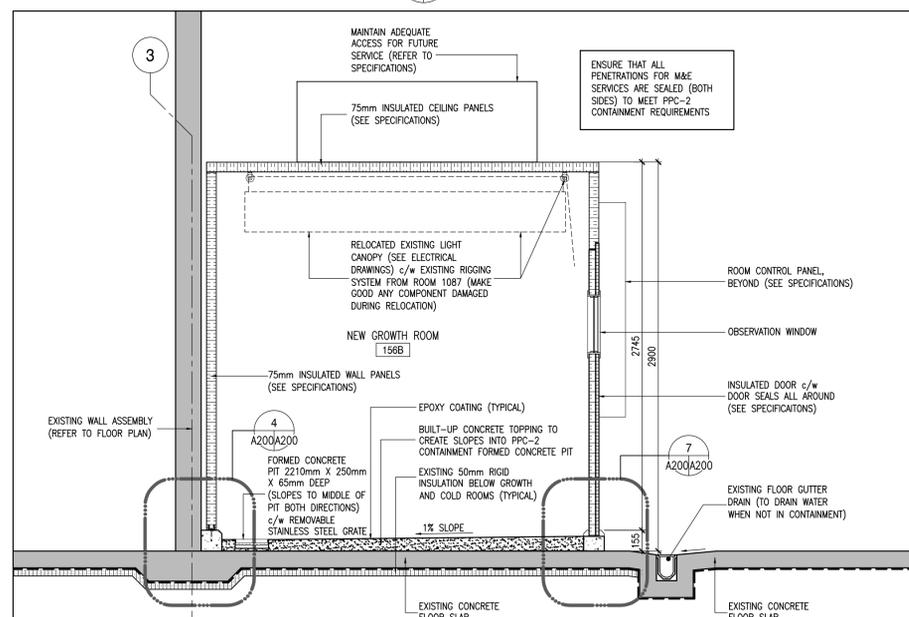
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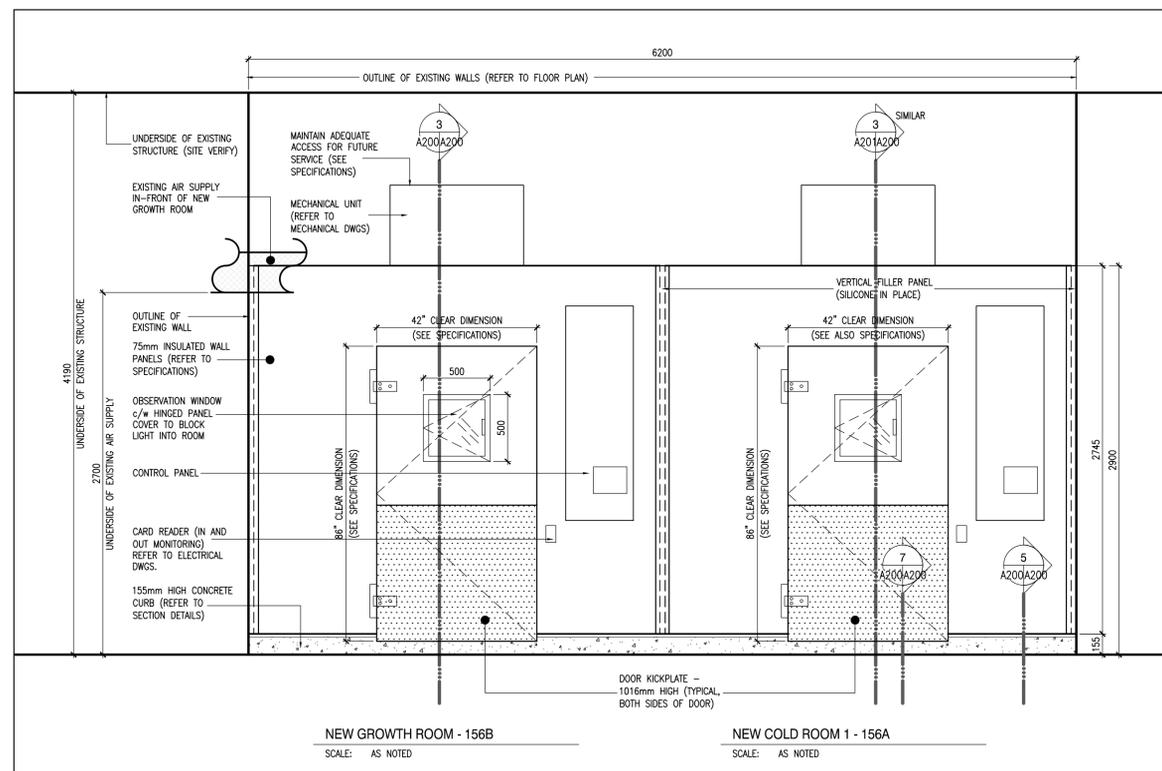
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A200/A200 SCALE: 1 : 5



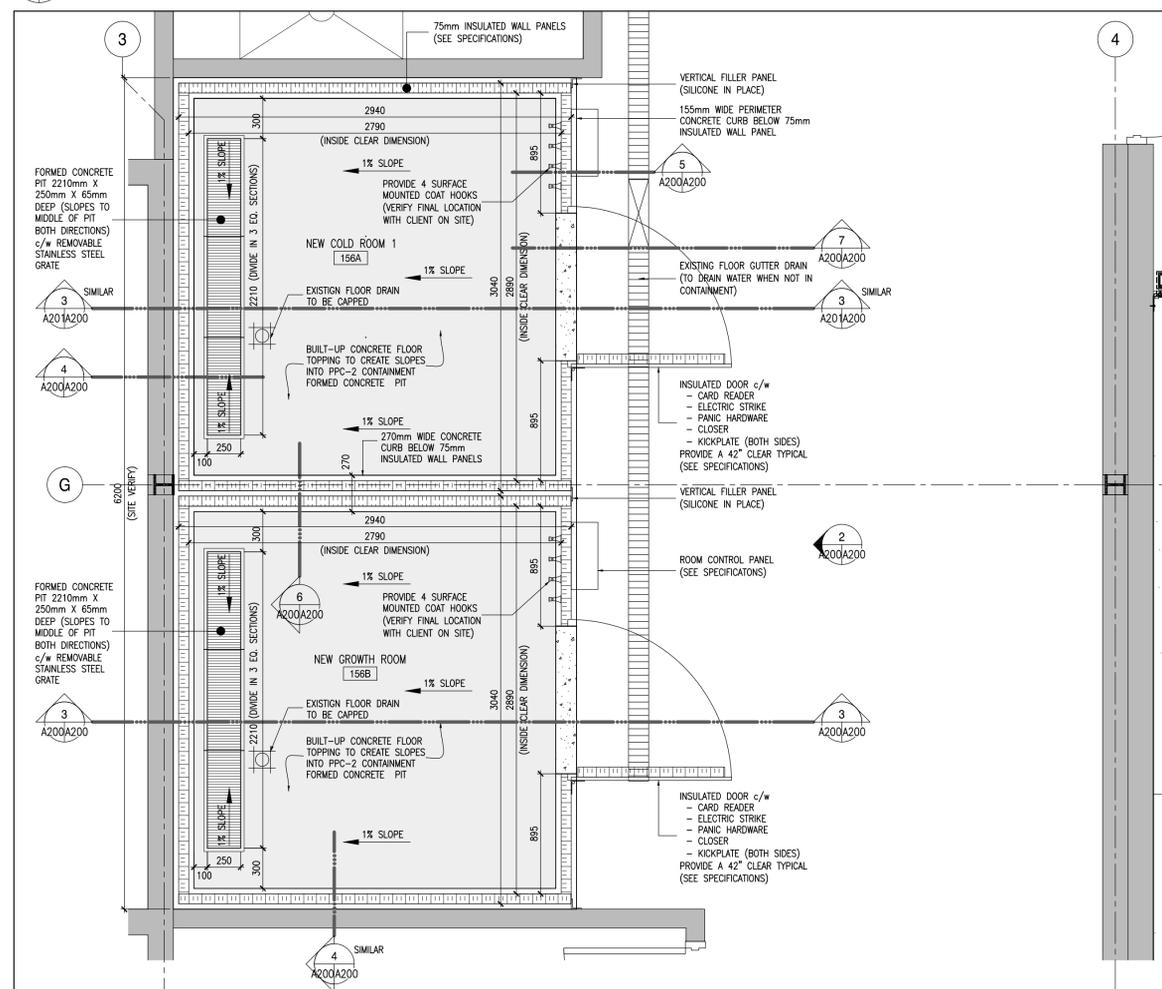
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A200/A200 SCALE: 1 : 5



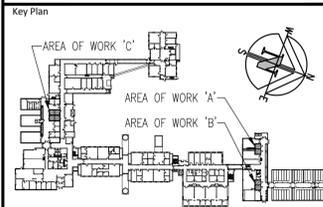
3 TYPICAL SECTION AT NEW GROWTH ROOM
A200/A200 SCALE: 1 : 25



2 INTERIOR ELEVATIONS - NEW GROWTH ROOM AND COLD ROOM 1
A200/A200 SCALE: 1 : 25



1 ENLARGED PLAN - NEW GROWTH ROOM AND COLD ROOM 1
A200/A001 SCALE: 1 : 25



Revisions Date

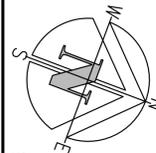
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Consultants

 ARCHITECTS

1867 YONGE ST., STE 1100, TORONTO ON CANADA M4S 1Y5
T 416 480 2020 F 416 480 1881

 ONTARIO ASSOCIATION OF ARCHITECTS
W. A. PETCH LICENCE 3331

NORTH: 

STAMP:

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LONDON ONTARIO
Agriculture and Agri-Food Canada
1391 Sandford Street

4 COLD ROOMS AND 1 GROWTH ROOM PROJECT

drawing title
no. du dessin
**ENLARGED FLOOR PLANS
ELEVATIONS AND DETAILS**

designed by
conçue par R+PA

drawn by
dessinée par R+PA

reviewed by
examinée par -

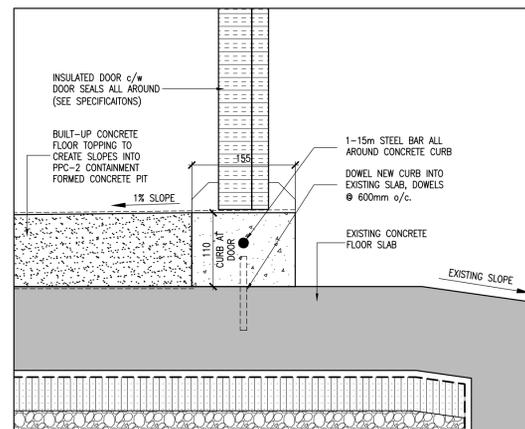
approved by
approuvée par AAFC

project date
date du projet 2013-09-06

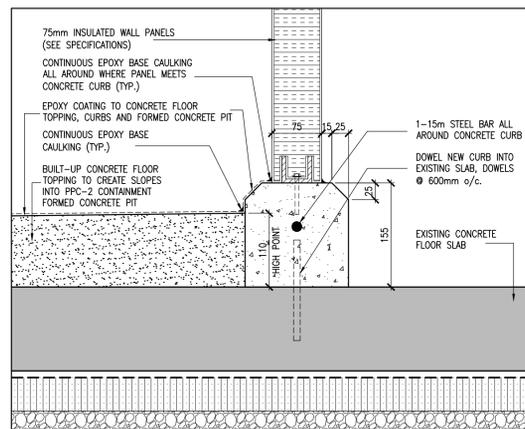
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no. du projet -

R+PA project no.
no. du projet 1314

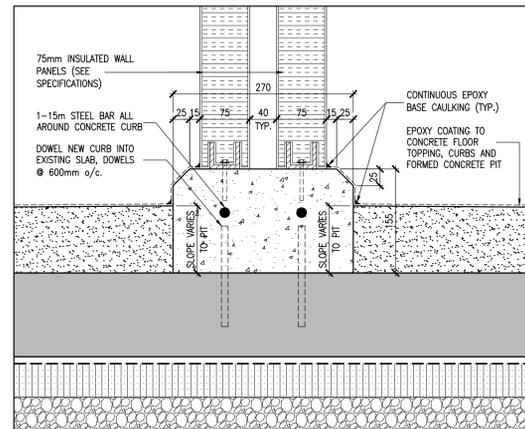
drawing no.
dessin no. **A201**



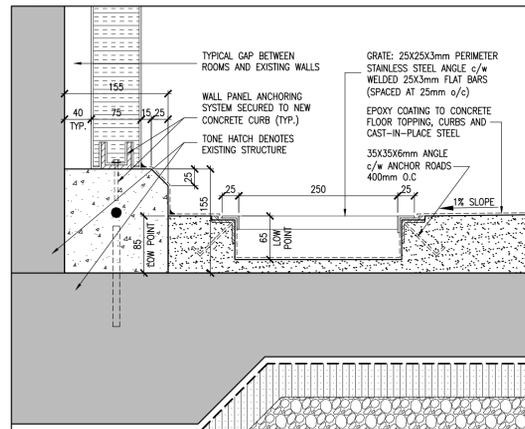
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A201/A201 SCALE: 1 : 5



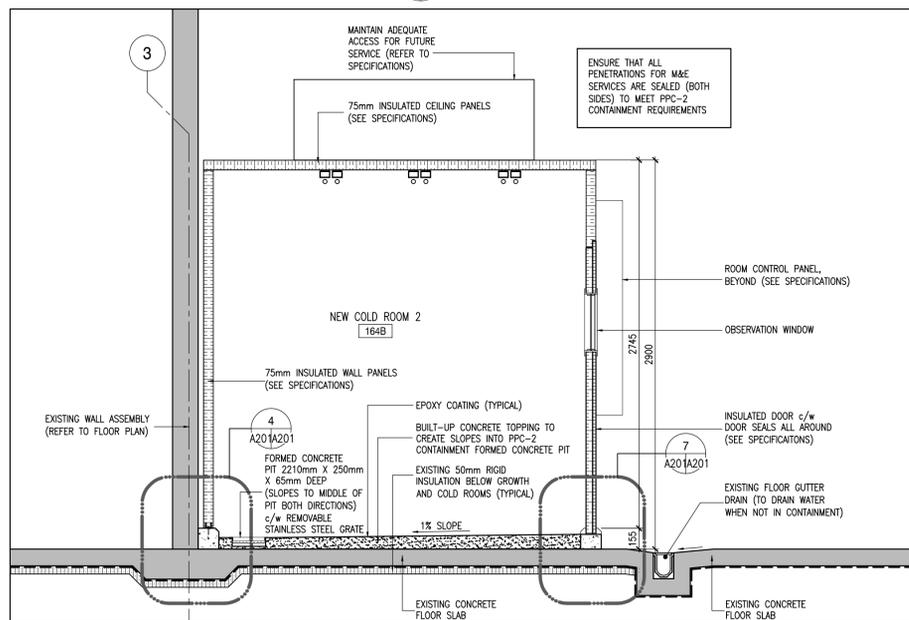
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A201/A201 SCALE: 1 : 5



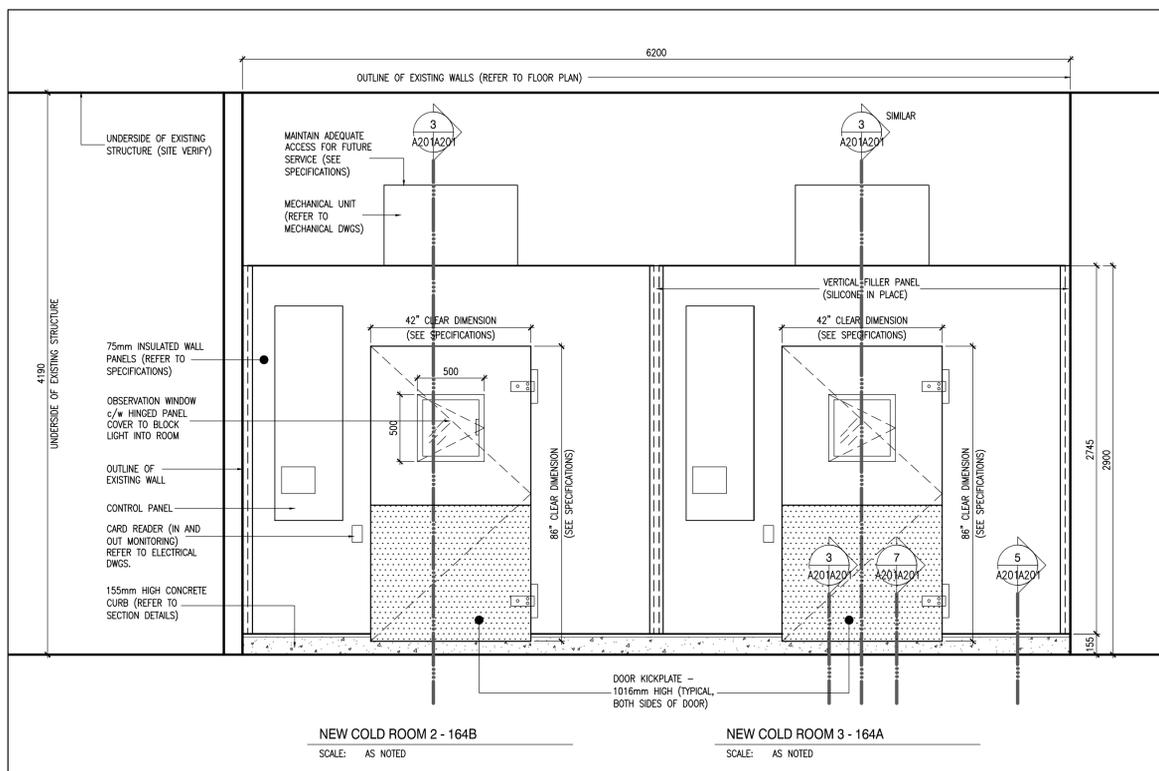
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A201/A201 SCALE: 1 : 5



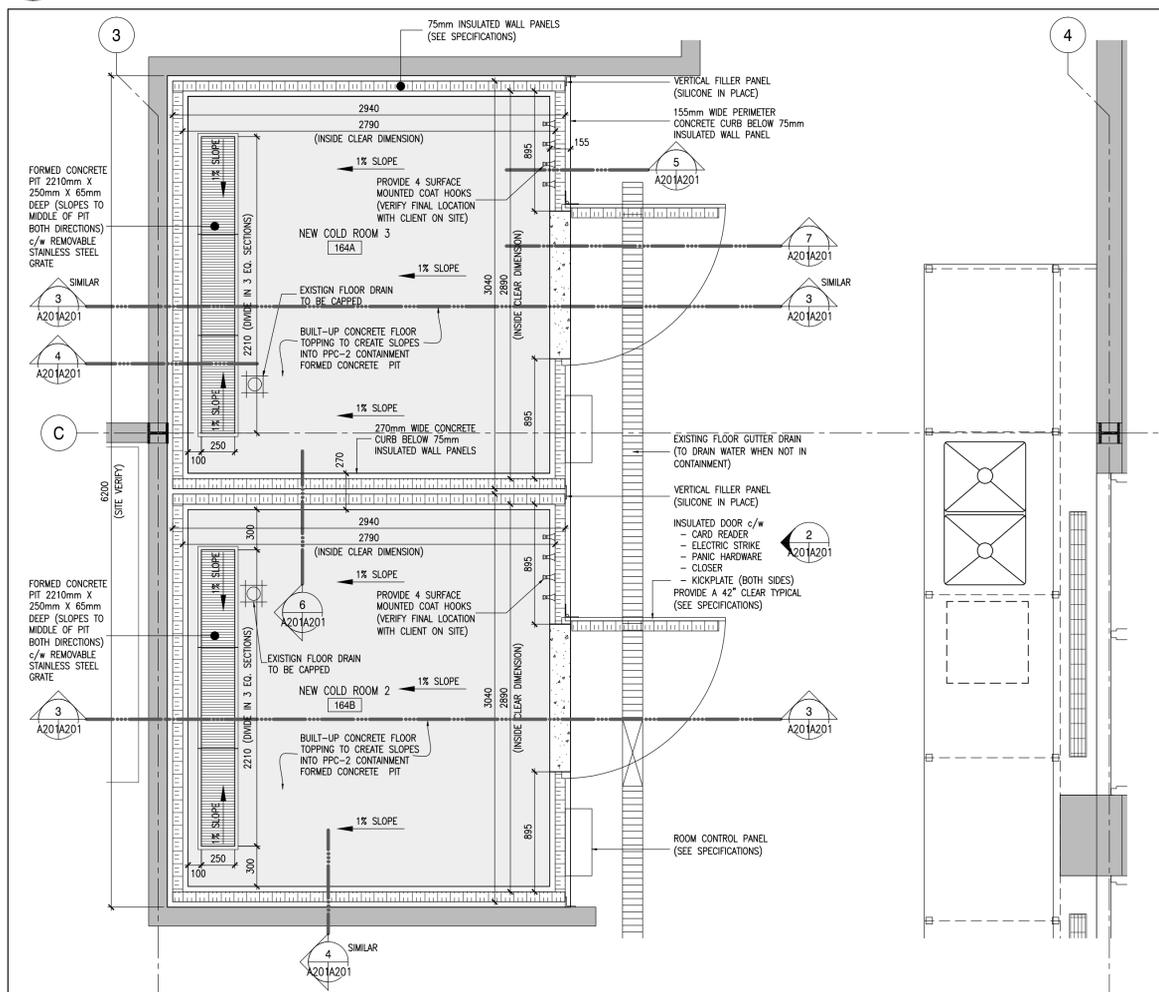
4 SECTION DETAIL
A201/A201 SCALE: 1 : 5



3 TYPICAL SECTION AT NEW COLD ROOMS
A201/A201 SCALE: 1 : 25



2 INTERIOR ELEVATIONS - NEW COLD ROOMS 2 AND 3
A201/A201 SCALE: 1 : 25



1 ENLARGED PLAN - NEW COLD ROOMS 2 AND 3
A201/A201 SCALE: 1 : 25

PACKAGED COOLING UNITS												
DRAWING REFERENCE	SERVICE	MODEL	CAPACITY		ELECTRICAL	UNIT SIZE			WATER COOLED CONDENSING UNITS			REMARKS
			WATTS	L/S		V/C/P	LENGTH (mm)	WIDTH (mm)	HEIGHT (mm)	DRAWING REFERENCE	FLOW (l/s)	
PCU-501	164A	LT0150	2635	377	208/1/60	1220	610	480	CU-601	0.095	208/3/60	
PCU-502	164B	LT0150	2635	377	208/1/60	1220	610	480	CU-602	0.095	208/3/60	
PCU-503	156A	LT0150	2635	377	208/1/60	1220	610	480	CU-603	0.095	208/3/60	
PCU-504	1087	LT0150	2635	377	208/1/60	1220	610	480	CU-605	0.095	208/3/60	CONDENSING UNIT TO BE REMOTE MOUNTED
PCU-812A	156B	-	-	-	575/3/60	-	-	-	CU-812B	-	-	EXISTING UNIT RELOCATED FROM 1087

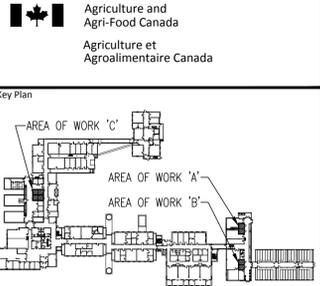
ALL UNITS SUPPLIED AND INSTALLED AS PART OF MANUFACTURERS PACKAGE. PIPING CONNECTIONS BY DIVISION 23.

HUMIDIFIERS							
DRAWING REFERENCE	MODEL	CAPACITY kg/h @ 1013 kPa	RO WATER FLOW (GPM)	V/C/P	FLA	REMARKS	
HUM-610	ST 600	2.7-3.6	0.063	208/1/60	9		
HUM-611	ST 600	2.7-3.6	0.063	208/1/60	9		
HUM-612	ST 600	2.7-3.6	0.063	208/1/60	9		
HUM-613	ST 600	2.7-3.6	0.063	208/1/60	9		
HUM-614	ST 600	2.7-3.6	0.063	208/1/60	9		

ALL UNITS SUPPLIED AND INSTALLED AS PART OF MANUFACTURERS PACKAGE. PIPING CONNECTIONS BY DIVISION 23.

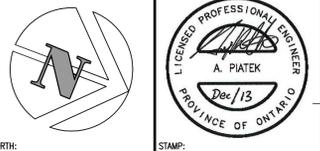
MECHANICAL DRAWING LIST	
M101	MECHANICAL LEGEND, DRAWING LIST, SCHEDULES AND DEMOLITION
M201	PART FLOOR PLANS - MECHANICAL
M301	PART FLOOR PLANS - MECHANICAL, CONTROLS AND SECTIONS

MECHANICAL LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
RO	REVERSE OSMOSIS WATER	SV	SHUT OFF VALVE
ROR	REVERSE OSMOSIS WATER RETURN	KB	COMBINATION SHUT-OFF & BALANCING VALVE
PWR	PROCESS WATER RETURN	ME	MECHANICAL EQUIPMENT TAG
PWS	PROCESS WATER SUPPLY	FD	FLOOR DRAIN
SAN	SANITARY DRAIN	TD	TRENCH DRAIN
NAME(E)	EXISTING PIPING TO REMAIN	T	TEMPERATURE SENSOR
NAME(E)	EXISTING PIPING TO BE REMOVED	H	HUMIDITY SENSOR
A	COMPRESSED AIR		
CD	CONDENSATE DRAIN		
⊗	UPRIGHT SPRINKLER HEAD C/W GUARD		
○	SPECIAL PURPOSE SPRINKLER HEAD		



Revisions	Date
1	50% DESIGN SUBMISSION OCT.30, 2013
2	90% DESIGN SUBMISSION NOV.15, 2013
3	99% DESIGN SUBMISSION DEC.06, 2013
4	ISSUED FOR TENDER DEC.19, 2013
5	
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10	

Consultants
Chorley + Bisset
 CONSULTING ENGINEERS
 369 YORK ST., SUITE 2B, LONDON ON, CANADA N6B 3R4
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- A Detail No.
- No. du detail
- B drawing no. - where detail required
- dessin no. - ou detail exige
- C drawing no. - where detailed
- dessin no. - ou detaille

project title
 titre du projet
LONDON ONTARIO
 Agriculture and Agri-Food Canada
 1391 Sandford Street

COLD AND GROWTH ROOMS RENOVATION
 drawing title
 titre du dessin
MECHANICAL LEGEND, DRAWING LIST, SCHEDULES AND DEMOLITION

designed by
 conc. par **BWO**

drawn by
 dessine par **GDS**

reviewed by
 examine par **BWO**

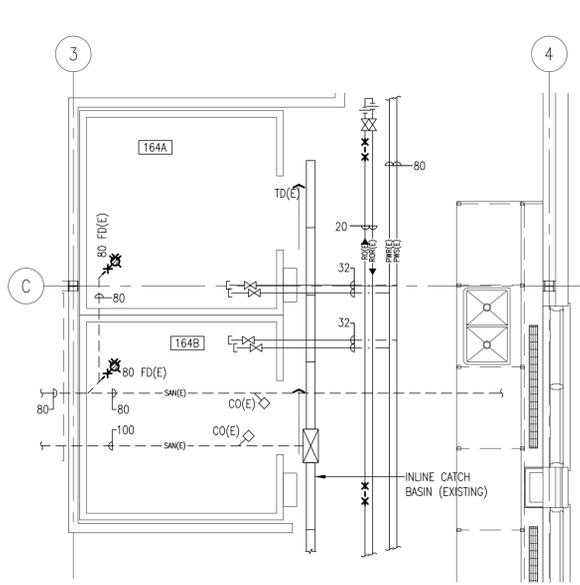
approved by
 approuve par **ATP**

project date
 date du projet **DEC. 2013**

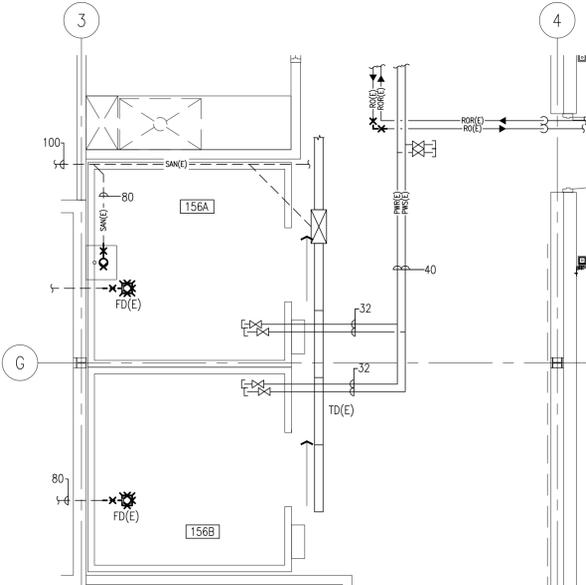
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 no. du projet **-**

CB project no.
 no. du projet **7259**

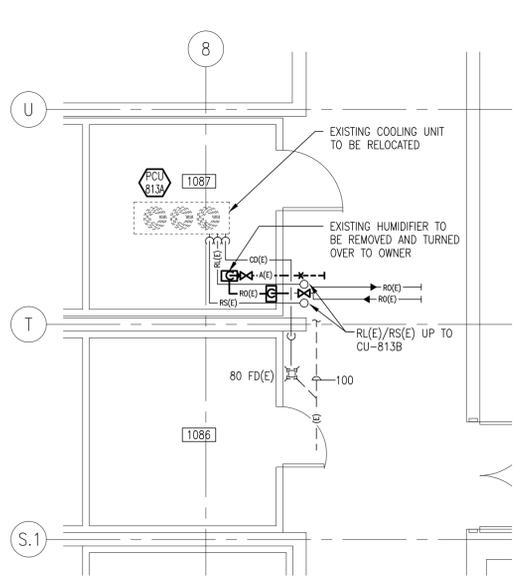
drawing no.
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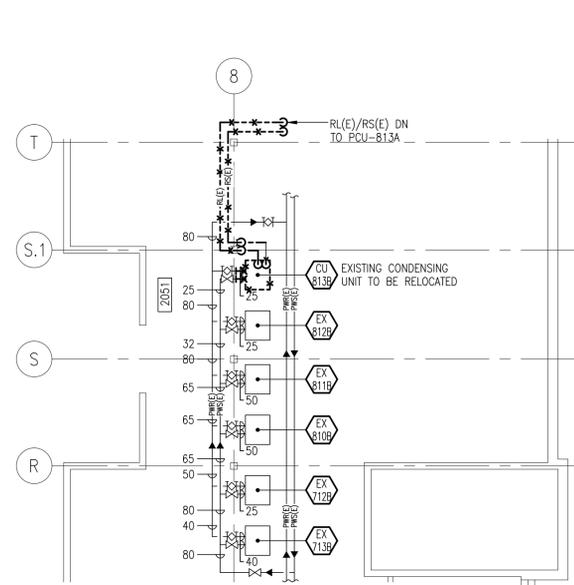
PART MAIN FLOOR PLAN - AREA A
MECHANICAL DEMOLITION
 SCALE: 0 1m 5m
 NOTES:
 1. DEMOLITION OF EXISTING SYSTEMS IS BY DIVISION 23.



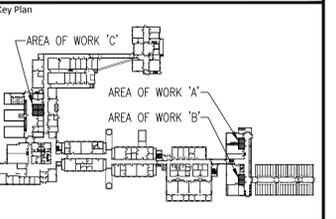
PART MAIN FLOOR PLAN - AREA B
MECHANICAL DEMOLITION
 SCALE: 0 1m 5m
 NOTES:
 1. DEMOLITION OF EXISTING SYSTEMS IS BY DIVISION 23.



PART MAIN FLOOR PLAN - AREA C
MECHANICAL DEMOLITION
 SCALE: 0 1m 5m
 NOTES:
 1. DEMOLITION OF EXISTING SYSTEMS IS BY DIVISION 23.

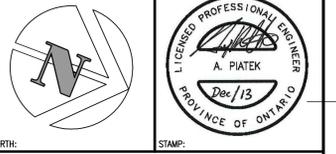


PART SECOND FLOOR PLAN - AREA C
MECHANICAL DEMOLITION
 SCALE: 0 1m 5m 10m
 NOTES:
 1. DEMOLITION OF EXISTING SYSTEMS IS BY DIVISION 23.



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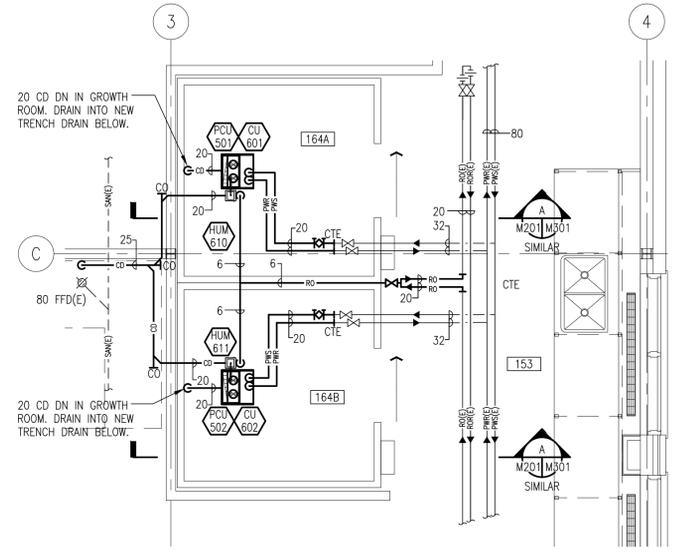
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 1391 Sandford Street

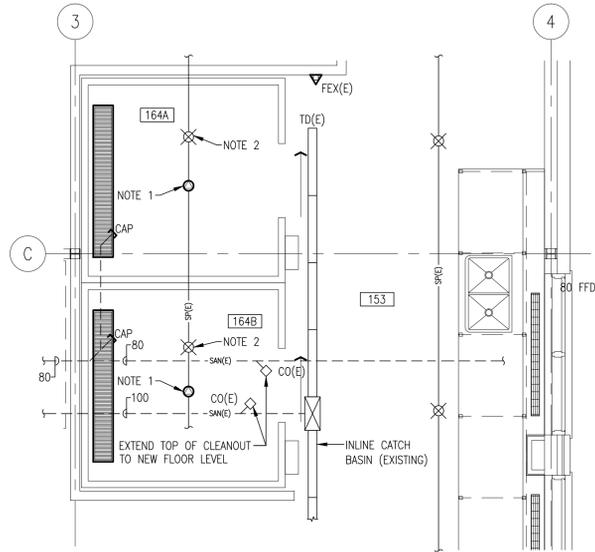
COLD AND GROWTH ROOMS RENOVATION

drawing title
 titre du dessin
PART FLOOR PLANS MECHANICAL

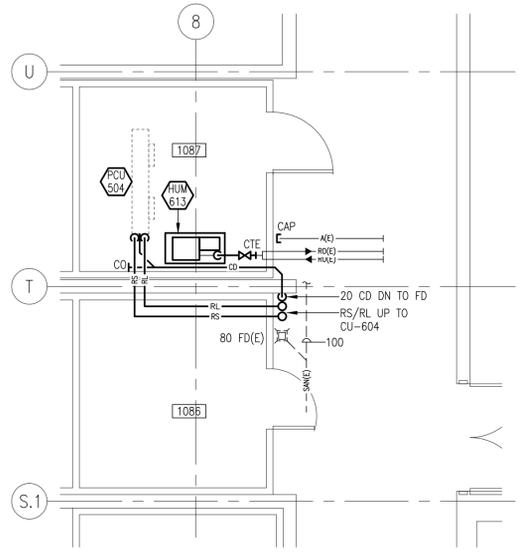
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CB project no. no. du projet	7259
drawing no. dessine no.	M201



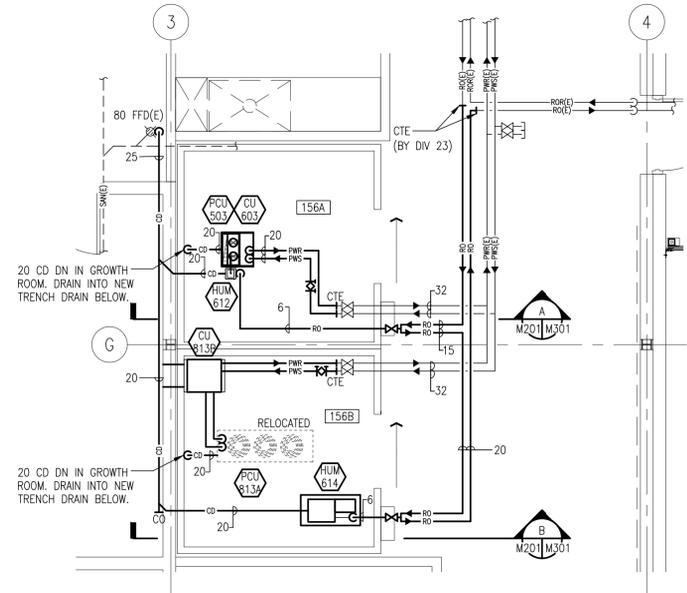
PART MAIN FLOOR PLAN - AREA A
HEATING
 SCALE: 0 1m 2m



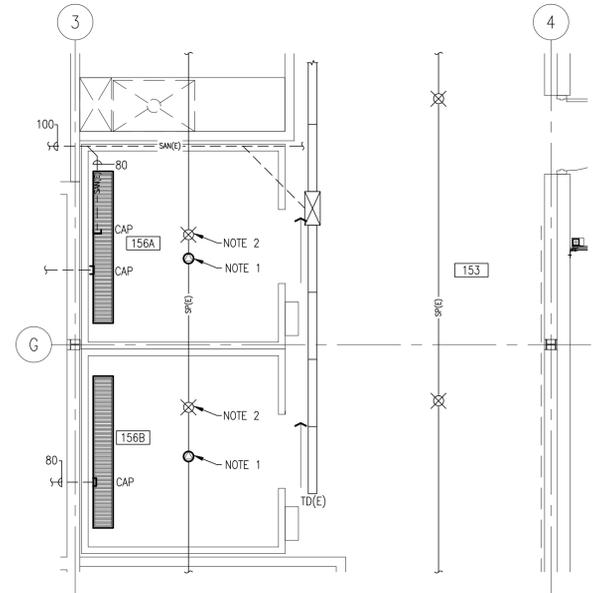
PART MAIN FLOOR PLAN - AREA A
PLUMBING & FIRE PROTECTION
 SCALE: 0 1m 2m
NOTES:
 1. EXTEND EXISTING SPRINKLER SYSTEM DOWN TO NEW SPRINKLER HEADS FOR NEW ROOM BELOW. PROVIDE DRY PENDANT SPRINKLER HEAD IN EACH SPACE AS SHOWN. SEE SPECIFICATIONS.
 2. EXISTING WET SPRINKLER ABOVE NEW ROOM TO REMAIN.



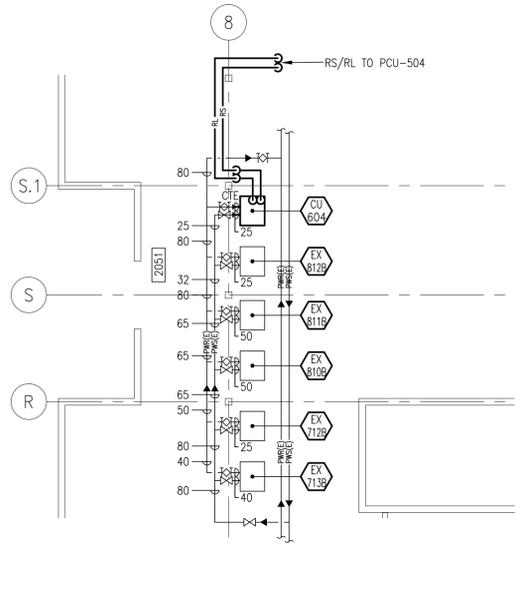
PART MAIN FLOOR PLAN - AREA C
HEATING
 SCALE: 0 1m 2m



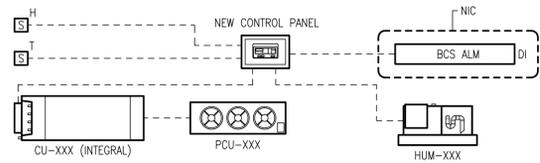
PART MAIN FLOOR PLAN - AREA B
HEATING
 SCALE: 0 1m 2m



PART MAIN FLOOR PLAN - AREA B
PLUMBING & FIRE PROTECTION
 SCALE: 0 1m 2m
NOTES:
 1. EXTEND EXISTING SPRINKLER SYSTEM DOWN TO NEW SPRINKLER HEADS FOR NEW ROOM BELOW. PROVIDE DRY PENDANT SPRINKLER HEAD IN EACH SPACE AS SHOWN. SEE SPECIFICATIONS.
 2. EXISTING WET SPRINKLER ABOVE NEW ROOM TO REMAIN.



PART SECOND FLOOR PLAN - AREA C
NEW
 SCALE: 0 1m 5m 10m

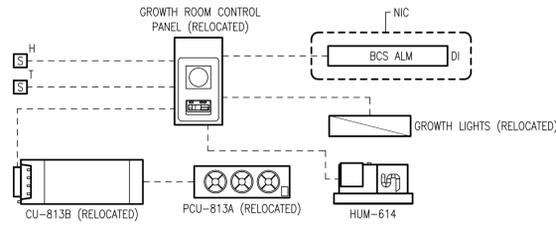


RMS. 156A AND 164A/B CONTROLS SCHEMATIC

N.T.S.

NOTES:

1. "XXX" REFERS TO PCU, CU OR HUM BY ROOM. SEE M201 AND EQUIPMENT SCHEDULES.
2. PROVIDE DRY CONTACTS FOR CONTROL PANEL TO TIE BACK TO EXISTING BCS FOR ALARM.
3. ALL WIRING FROM CONTROL PANEL TO ROOM DEVICES IS BY EQUIPMENT MANUFACTURER.

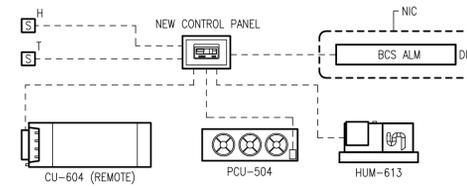


RM. 156B CONTROLS SCHEMATIC

N.T.S.

NOTES:

1. PROVIDE DRY CONTACTS FOR CONTROL PANEL TO TIE BACK TO EXISTING BCS FOR ALARM.
2. ALL WIRING FROM CONTROL PANEL TO ROOM DEVICES IS BY EQUIPMENT MANUFACTURER.

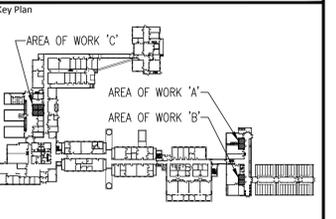


RM. 1087 CONTROLS SCHEMATIC

N.T.S.

NOTES:

1. PROVIDE DRY CONTACTS FOR CONTROL PANEL TO TIE BACK TO EXISTING BCS FOR ALARM.
2. ALL WIRING FROM CONTROL PANEL TO ROOM DEVICES IS BY EQUIPMENT MANUFACTURER.



Revisions	Date
1	50% DESIGN SUBMISSION OCT.30, 2013
2	90% DESIGN SUBMISSION NOV.15, 2013
3	99% DESIGN SUBMISSION DEC.06, 2013
4	ISSUED FOR TENDER DEC.19, 2013
5	
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10	

Consultants

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CONSULTING ENGINEERS
369 YORK ST., SUITE 2B, LONDON ON, CANADA N6B 3R4
P: 519-679-8660 F: 519-679-2145 chorley.com

NORTH: STAMP:

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A Detail No.
No. du detail
B drawing no. - where detail required
dessin no. - ou detail exigé
C drawing no. - where detailed
dessin no. - ou detaillé

project title
titre du projet
LONDON ONTARIO
Agriculture and Agri-Food Canada
1391 Sandford Street

COLD AND GROWTH ROOMS RENOVATION

drawing title
titre du dessin
**PART FLOOR PLANS
MECHANICAL, CONTROLS
AND SECTIONS**

designed by
conc. par **BWO**

drawn by
dessine par **MLP**

reviewed by
examine par **BWO**

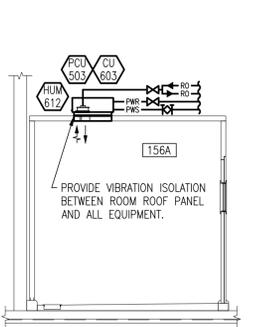
approved by
approuve par **ATP**

project date
date du projet **DEC. 2013**

AAF C project no.
no. du projet **-**

CB project no.
no. du projet **7259**

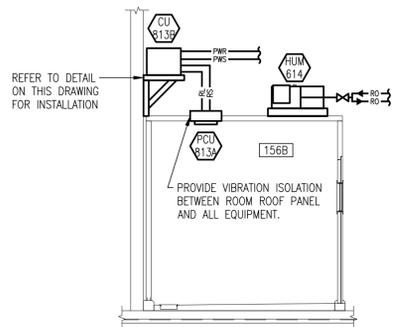
drawing no.
dessin no. **M301**



MECHANICAL EQUIPMENT MOUNTING DETAIL A

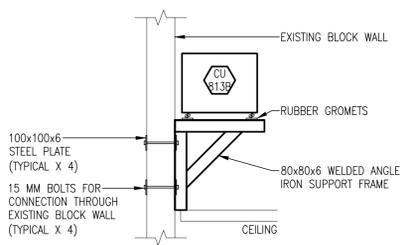
SCALE: 0 1m 2m
M301/M201

- NOTES:**
1. TYPICAL FOR ROOMS 156A, 164A AND 164B



MECHANICAL EQUIPMENT MOUNTING DETAIL B

SCALE: 0 1m 2m
M301/M201

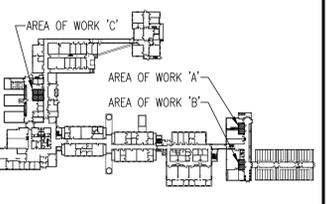
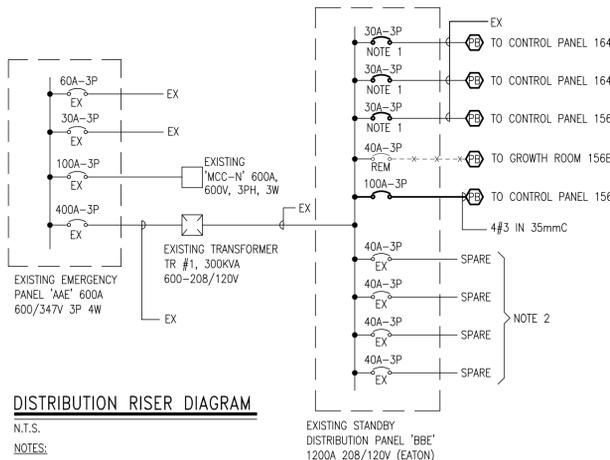
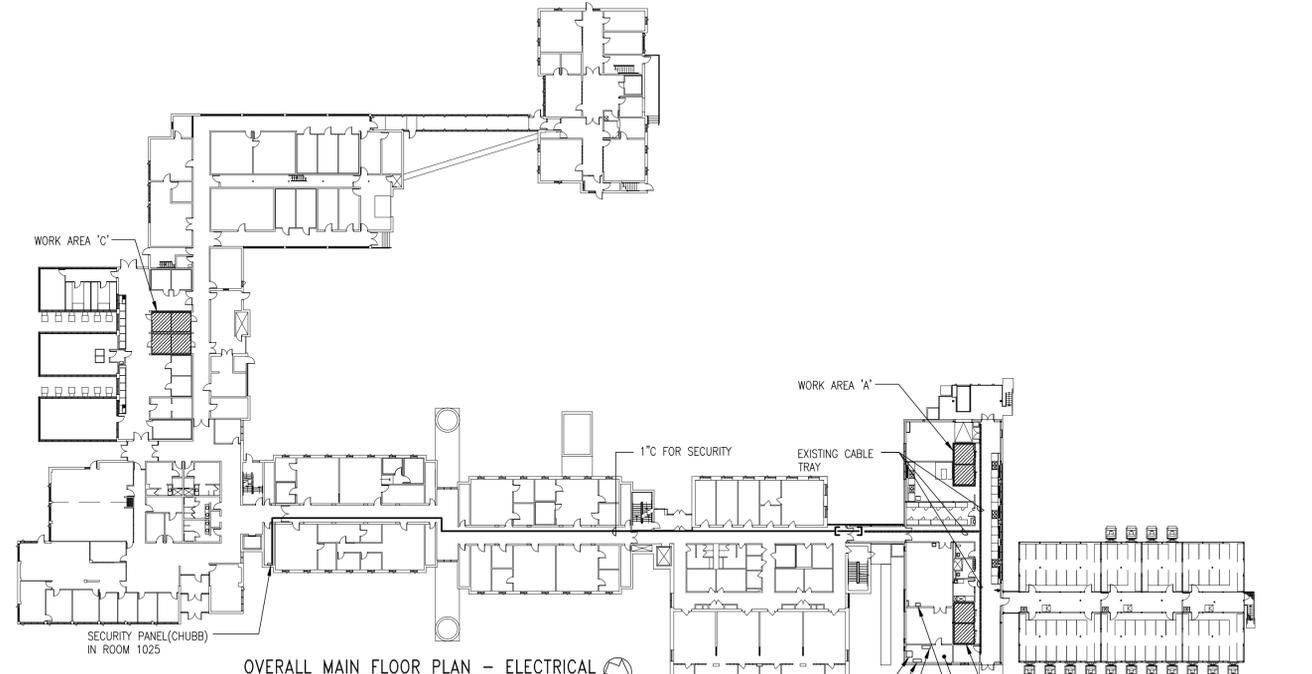
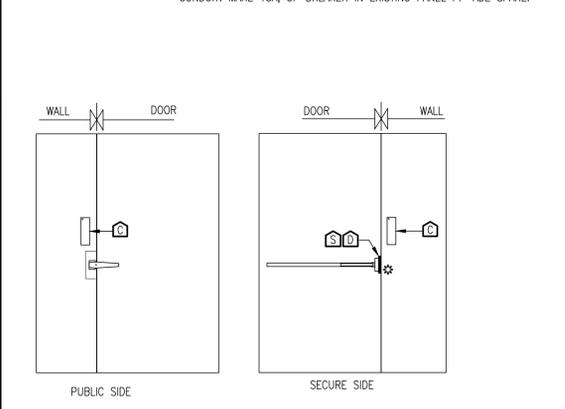
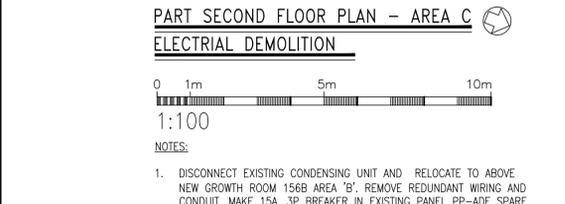
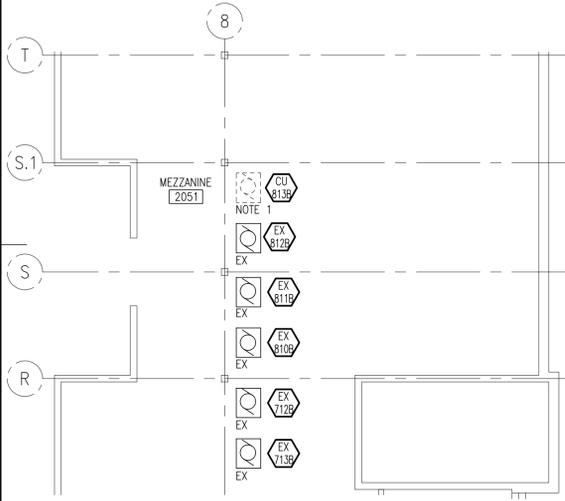
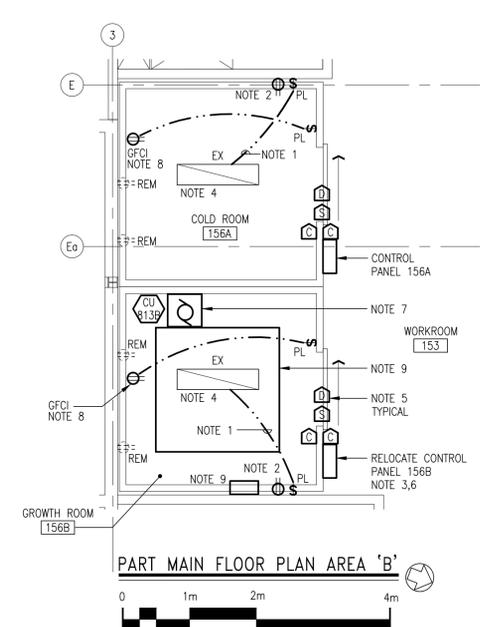
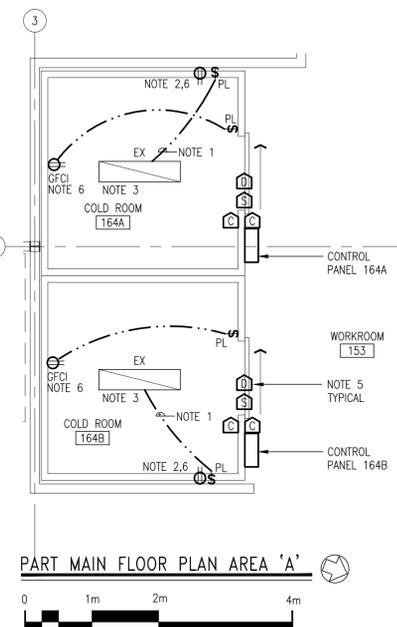
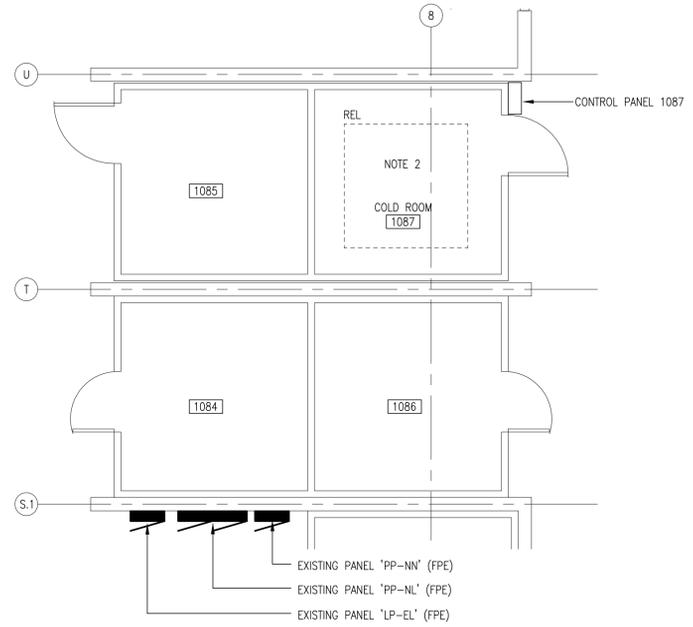


CU-813B INSTALLATION DETAIL

N.T.S.

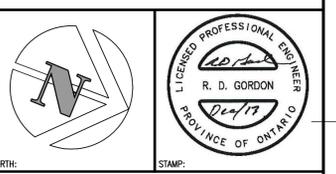
ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING
	FLUORESCENT LUMINAIRE - NORMAL POWER	
	SWITCH c/w PILOT LIGHT	AT HIGH LEVEL ABOVE COLD/GROWTH ROOMS
	PULL BOX	
	JUNCTION BOX	
	15/20 AMP 120 VOLT 3 WIRE GROUNDED DUPLEX RECEPTACLE CSA 5-20R	AT HIGH LEVEL ABOVE COLD/GROWTH ROOMS
	TRANSFORMER	
	MOTOR	
	ELECTRIC DOOR STRIKE	DOOR FRAME
	DOOR POSITION SWITCH - CONCEALED	TOP OF DOOR FRAME
	CARD READER	1070mm (42") A.F.F.
	CIRCUIT BREAKER	

ABBREVIATIONS			
A.F.F.	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTRE
C	CONDUIT	REL	IF DASHED - EXISTING TO BE RELOCATED
C/W	COMPLETE WITH	REL	IF SOLID - EXISTING IN NEW LOCATION
EX	EXISTING TO REMAIN	REM	EXISTING TO BE REMOVED
GND	GROUND		



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Agriculture and Agri-Food Canada
1391 Sandford Street

COLD AND GROWTH ROOMS RENOVATION

drawing title
titre du dessin
ELECTRICAL LEGEND, ABBREVIATIONS, PLANS, DETAILS AND ELECTRICAL RISER

designed by conc. par	JSG
drawn by dessine par	JSG
reviewed by examine par	MP
approved by approuve par	MP
project date date du projet	DEC. 2013
A&F project no. no. du projet	
CB project no. no. du projet	7259

drawing no.
dessine no.
E101