




Public Works  
Government Services  
Canada

Travaux publics  
Services gouvernementaux  
Canada

Ontario Region

Région de l'Ontario

Gravenhurst Ontario  
BEAVER CREEK INSTITUTION  
2000 Beaver Creek Dr. Gravenhurst  
FIRE ALARM SYSTEM UPGRADE, PHASE II  
PWGSC Proj. No.: R.080201.001 (STANTEC:163302151)

 Public Works and  
Government Services Canada  
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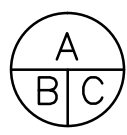


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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31

revision

date

	A Detail No. No. du détail
	B drawing no. — where detail required dessin no. — où détail exigé
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project title  
titre du projet  
Gravenhurst Ontario  
BEAVER CREEK INSTITUTION  
FIRE ALARM SYSTEM  
UPGRADE — PHASE II

drawing title  
titre du dessin  
FIRE ALARM  
COVER PAGE

drawn by  
dessiné par  
D. GINGRAS/J.L.C./J.C./T.T.

designed by  
conçu par  
MIKE XU

approved by  
approuvé par  
JEFFREY DUBEAU

bid  
offre  
G.G.

project manager  
administrateur  
de projets

project date  
date du projet  
2018-01-19

project no.  
no. du projet  
R.080201.001

drawing no.  
dessiné no.  
BC00\_E000

BEAVER CREEK BUILDING INDEX

- BC03 CORCAN
- BC05 STORES/PROCUREMENT/  
FOOD DISTRIBUTION BUILDING
- BC10 CHAPEL BUILDING
- BC12 ACTIVITY BUILDING
- BC13 HEALTH SERVICES AND S.I.S.  
BUILDING
- BC14 ACCOMMODATION UNIT #1
- BC15 RECREATION BUILDING
- BC16 ADMINISTRATION BUILDING
- BC18 ACCOMMODATION UNIT #4
- BC19 ACCOMMODATION UNIT #5
- BC20 NEIGHBOURHOOD BUILDING #2
- BC23 NEIGHBOURHOOD BUILDING #1
- BC24 ACCOMMODATION UNIT #3
- BC25 ACCOMMODATION UNIT #2
- BC36 GARBAGE STORAGE BUILDING
- BC37 PICNIC SHELTER
- BC39 VOCATIONAL PROGRAMS
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- BC45 STORAGE/GARAGE #1
- BC46 WELDING SHOP
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- BC48 SMOKE HOUSE (MOBILE)
- BC49 STORAGE SHED (MOBILE)
- BC50 STORAGE SHED
- BC51 STORAGE SHED
- BC52 STORAGE SHED
- BC53 NEW PRIVATE FAMILY VISITS  
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- BC54 SAND STORAGE BUILDING
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- BC57 SWITCHGEAR BUILDING
- BC58 GYM BUILDING
- BC59 MULTIPURPOSE BUILDING
- BC60 RANGE CLASSROOM
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FENBROOK BUILDING INDEX

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- FBB VISITATION &  
CORRESPONDENCE FBC
- FBC HEALTHCARE & SEGREGATION
- FBD INDUSTRIES
- FBE NON SECURE RESIDENCE
- FBF NON SECURE RESIDENCE
- FBG NON SECURE RESIDENCE
- FBH SECURE RESIDENCE
- FBJ PROGRAMS/GYM
- FBK ADMINISTRATION
- FBL CHAPEL
- FBM FAMILY VISITATION
- FBN CO-GENERATION
- FBP GARAGES
- FBQ SANITARY PUMPING STATION
- FBR INUIT HOBBY/CRAFT BUILDING
- FBS FAMILY VISITATION
- FBT SECURE RESIDENCE T
- FBU INTERIOR MULTIPURPOSE  
BUILDING FBV EXTERIOR  
MULTIPURPOSE BUILDING



1 SITE PLAN  
SCALE: 1:2000

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- BC00\_E000 - FIRE ALARM COVER PAGE
- BC00\_E001 - FIRE ALARM LEGEND, ABBREVIATION AND GENERAL NOTE
- BC00\_E100 - FIRE ALARM OPTICAL FIBER CABLE & UNDERGROUND VAULT - EXITING LAYOUT
- BC00\_E101 - OPTICAL FIBER NETWORK RISER DIAGRAM - NEW
- BC00\_E102 - WIRING DIAGRAM
- BC03\_E200 - BC03-CORCAN BUILDING DEMOLITION & NEW LAYOUT
- BC05\_E200 - BC05-STORES/PROCUREMENT/ FOOD DISTRIBUTION GROUND FLOOR DEMOLITION LAYOUT
- BC05\_E201 - BC05-STORES/PROCUREMENT/ FOOD DISTRIBUTION SECOND FLOOR DEMOLITION LAYOUT
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- BC14\_E200 - BC14-ACCOMMODATION UNIT #1 FIRST FLOOR EXISTING LAYOUT
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- BC18\_E202 - BC18-ACCOMMODATION UNIT #4 GROUND FLOOR NEW LAYOUT
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- BC24\_E200 - BC24-ACCOMMODATION UNIT #3 GROUND FLOOR DEMOLITION LAYOUT
- BC24\_E201 - BC24-ACCOMMODATION UNIT #3 SECOND FLOOR DEMOLITION LAYOUT
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- BC25\_E200 - BC25-ACCOMMODATION UNIT #2 GROUND FLOOR DEMOLITION LAYOUT
- BC25\_E201 - BC25-ACCOMMODATION UNIT #2 SECOND FLOOR DEMOLITION LAYOUT
- BC25\_E202 - BC25-ACCOMMODATION UNIT #2 GROUND FLOOR NEW LAYOUT
- BC25\_E203 - BC25-ACCOMMODATION UNIT #2 SECOND FLOOR NEW LAYOUT
- BC39\_E200 - BC39-FIREHALL GROUND FLOOR EXISTING LAYOUT
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- BC43\_E200 - BC43-WORKS BUILDING & MECH. ROOM FIRST FLOOR PLAN DEMOLITION LAYOUT
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- BC53\_E200 - BC53-NEW PRIVATE FAMILY VISITS UNIT GROUND FLOOR DEMOLITION & NEW LAYOUT
- BC55\_E200 - BC55-PRINCIPAL ENTRANCE GROUND FLOOR DEMOLITION & NEW LAYOUT
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- BC60\_E200 - BC60-RANGE CLASSROOM GROUND FLOOR PLAN NEW LAYOUT
- FBA\_E200 - FBA-GATEHOUSE/ADMIS. FIRST FLOOR NEW LAYOUT
- FBD\_E200 - FBD-INDUSTRIES BUILDING FIRST FLOOR NEW LAYOUT
- FBD\_E201 - FBD-INDUSTRIES BUILDING MECHANICAL ROOM FLOOR DEMOLITION LAYOUT



CODE AND STANDARD SUMMARY	
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL PERTINENT CODES, REGULATIONS, AND STANDARDS AS REQUIRED BY THE LOCAL AUTHORITIES HAVING JURISDICTION INCLUDING BUT NOT LIMITED TO:	
1.	NBCC 2015 - NATIONAL BUILDING CODE OF CANADA
2.	NFCC - NATIONAL FIRE CODE OF CANADA
3.	TBS - TREASURY BOARD STANDARDS
4.	CAN/ULC-S524-14, STANDARD FOR THE INSTALLATION OF FIRE ALARM SYSTEMS
5.	CAN/ULC-S536-13, STANDARD FOR INSPECTION AND TESTING OF FIRE ALARM SYSTEMS
6.	CAN/ULC-S537-13, STANDARD FOR VERIFICATION OF FIRE ALARM SYSTEMS
7.	CEC-2015, CANADIAN ELECTRICAL CODE
8.	CSC TECH CRITERIA FOR CORRECTIONAL INSTITUTIONS SECTION E-ELECTRICAL

CONSTRUCTION NOTES	
1.	CONTRACTOR SHALL HAVE TO COORDINATE THE WORK FOR EACH BUILDING ON BCI APPROVED CONSTRUCTION SCHEDULE. CONTRACTOR TO SITE VERIFY AND REVIEW ALL EXISTING CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK RELATED TO THE PROJECT.
2.	CONTRACTOR SHALL COORDINATE THE EXACT SCOPE OF WORK WITH ALL TRADES, ENGINEER AND BUILDING O & M PERSONAL CONNECTION TO EXISTING SERVICED, LOCATIONS & TIMES OF TIE-INS AND SHUT DOWNS SHALL BE COORDINATED WITH THE BCI AND SHALL BE DONE IN A MANNER TO MINIMIZE SHUT-DOWN TIME & ENSURE THAT SERVICES AND OPERATION SCHEDULES FOR EXISTING BUILDINGS ARE NOT AFFECTED.
3.	THE EXISTING BUILDING FIRE ALARM SYSTEM CONTRACTOR (CHUBB EDWARDS BARRIE OFFICE ) SHALL MAKE A COMPLETE INSPECTION TESTING AND VERIFICATION OF ALL COMPONENTS INSTALLED OR RELATED FOR THE SYSTEM IN ACCORDANCE WITH THE STANDARDS CAN/ULC-S536 AND CAN/ULC-S537. FOR FIRE ALARM PRICING PLEASE CONTACT SHANE MACKAY AT SHANE.MACKAY@CHUBBEDWARDS.COM 705-795-9157.

LEGEND	
GENERAL SYMBOLS	
	EXISTING TO REMOVE
	EXISTING TO REMAIN *
	CONNECTION TO EXISTING *
	MODIFICATION REFERENCE
	DESCRIPTION SCALE: X:Y
	DETAIL / VIEW TITLE
	NORTH INDICATOR
* THE SYMBOLIC DIFFERENCE BETWEEN EXISTING AND NEW ELEMENTS IS USED ONLY WHEN BOTH EXISTING AND NEW ELEMENTS ARE SHOWN SIMULTANEOUSLY IN PLANS. OTHERWISE, THE STANDARD SYMBOLISM IS USED (FULL LINEWEIGHT).	

ELECTRICAL	
FIRE ALARM SYMBOLS	
	FIRE ALARM MANUAL STATION
	FIRE ALARM BELL
	FIRE ALARM ELECTRONIC HORN
	FIRE ALARM ELECTRONIC HORN c/w STROBE
	FIRE ALARM HORN SPEAKER
	CEILING MOUNTED REMOTE EVACUATION STROBE
	WALL MOUNTED REMOTE EVACUATION STROBE
	CARBON MONOXIDE ALARM
	FIRE ALARM HEAT DETECTOR (RATE OF RISE UNLESS OTHERWISE INDICATED)
	FIRE ALARM SMOKE DETECTOR
	FIRE ALARM SMOKE DETECTOR, DUCT MOUNTED
	SMOKE ALARM
	FLAME DETECTOR
	FIRE ALARM ANNUNCIATOR PANEL
	FIRE ALARM CONTROL PANEL
	CENTRAL ALARM & CONTROL FACILITY
	FIRE ALARM EMERGENCY TELEPHONE
	FIRE ALARM MAGNETIC DOOR HOLD OPEN DEVICE
	FIRE ALARM RELAY
	FIRE ALARM END OF LINE RESISTOR
	FIRE ALARM FAULT ISOLATION MODULE
	FIRE ALARM CONTROL MODULE
	FIRE ALARM MONITOR MODULE
	FIRE ALARM CONNECTION TO PRESSURE SWITCH
	FIRE ALARM CONNECTION TO FLOW SWITCH
	FIRE ALARM CONNECTION TO TAMPER SWITCH
	FIRE ALARM CONNECTION TO LEVEL SWITCH
	FIRE ALARM CONNECTION TO VALVE MONITOR SWITCH
	FIRE ALARM CONNECTION TO POST INDICATOR VALVE
	FIRE ALARM SOUNDER BASE
	FIRE ALARM BOOSTER POWER SUPPLY
	FIRE ALARM FIREWORK STATION

POWER PLAN SYMBOLS	
	DUPLEX RECEPTACLE, 15A OR 20A 125V
	DUPLEX RECEPTACLE C/W INTEGRAL GFCI PROTECTION, 15A OR 20A, 125V
	DEDICATED DUPLEX RECEPTACLE, 15A OR 20A, 125V
	CEILING MOUNTED JUNCTION BOX
	WALL MOUNTED JUNCTION BOX
	FLOOR MOUNTED JUNCTION BOX
	CONTACTOR
	PANELBOARD SURFACE MOUNTED
	FLUSH MOUNTED
	CONDUIT STUB
	CONDUIT UP
	CONDUIT DOWN

NOT ALL SYMBOLS SHOWN IN LEGEND ARE NECESSORILY BE USED IN THE DRAWING SET.

ABBREVIATION LIST			
EH:	ELECTRONIC HORN	ISO:	ISOLATION MODULE
HS:	HORN SPEAKER	CM:	CONTROL MODULE
SA:	SMOKE ALARM	MM:	MONITOR MODULE
FAA:	FIRE ALARM ANNUNCIATOR	PS:	PRESSURE SWITCH
FACP:	FIRE ALARM CONTROL PANEL	FS:	FLOW SWITCH
H:	DOOR HOLDER	TS:	TAMPER SWITCH
R:	RELAY	LS:	LEVEL SWITCH
EOL:	END OF LINE	SV:	SUPERVISORY VALVE
N/A:	NOT APPLICABLE	FA:	FIRE ALARM
PIV:	POST INDICATOR VALVE	AFF:	ABOVE FINISHED FLOOR



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revision		date

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project title  
titre du projet  
**Gravenhurst** **Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM**

**LEGEND, ABBREVIATIONS  
AND CONSTRUCTION NOTES**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conç par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur de projets

project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

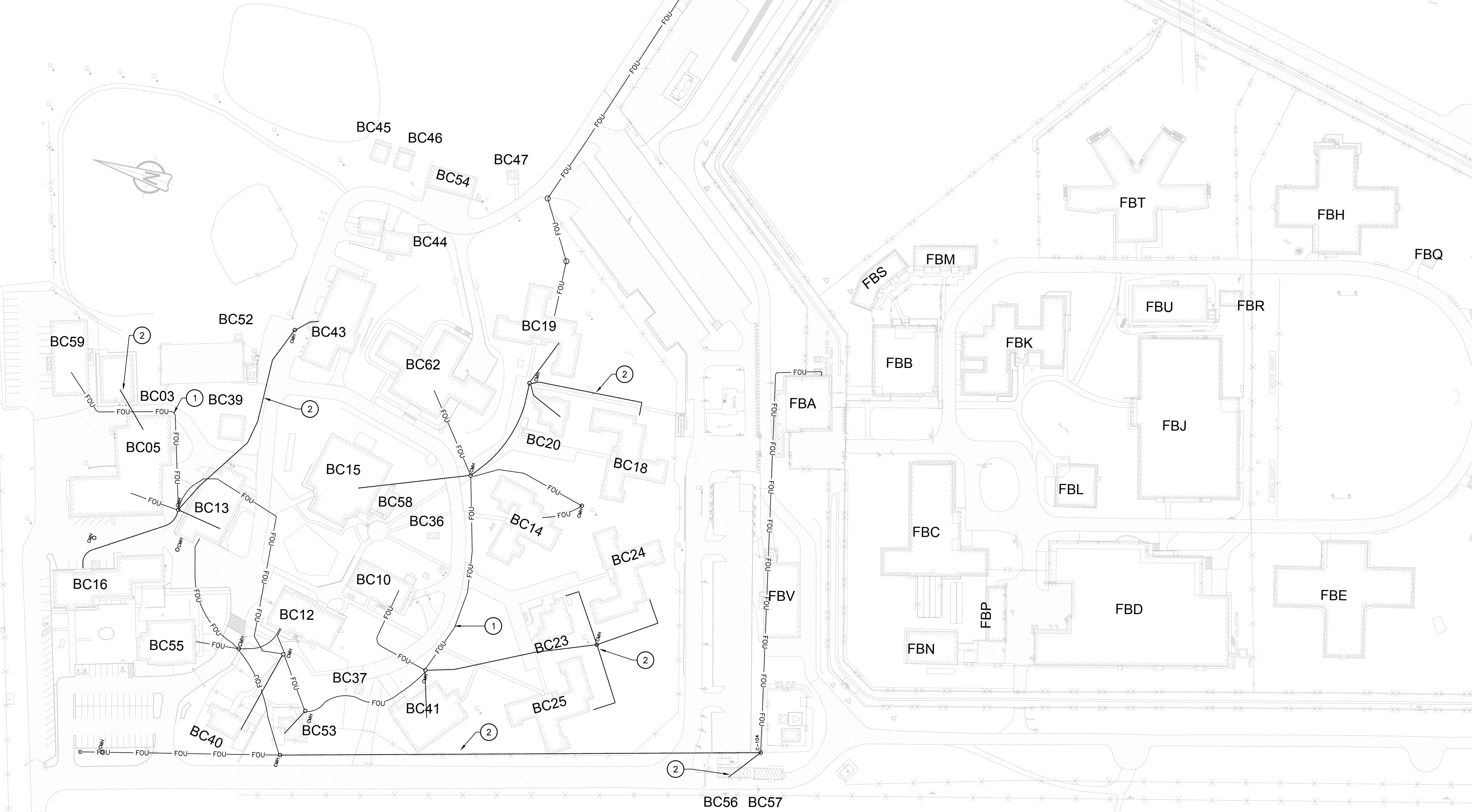
drawing no.  
dessiné no. **BC00\_E001**



GENERAL NOTES	
1.	LAYOUT AND LOCATION OF FIRE ALARM OPTICAL FIBER CABLE RUNS ARE INDICATIVE, AND MAY NOT BE EXACTLY AS SHOWN. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING UNDERGROUND VAULT AND CONDUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.

DRAWING NOTES	
1	TYPICAL EXISTING UNDERGROUND FIBER OPTIC CABLE IN EXISTING UNDERGROUND VAULT TO REMAIN.
2	TYPICAL EXISTING UNDERGROUND VAULT FOR OPTICAL FIBER CABLE RUNS.
3	GENERAL INTERCONNECT CONTROL PANELS IN MINIMUM INSTITUTION TO CREATE A STYLE A (DCLA) DATA COMMUNICATION LINK NETWORKING SYSTEM VIA EXISTING UNDERGROUND VAULT. REFER TO RISER DIAGRAM IN DRAWING BC00_E101 FOR NEW OPTICAL FIBER CABLE CONNECTION.

LEGEND	
	EXISTING UNDERGROUND OPTICAL FIBER CABLE RUN
	EXISTING UNDERGROUND CONDUIT



1 OPTICAL FIBER CABLE & UNDERGROUND VAULT - EXISTING LAYOUT  
SCALE: 1:1000



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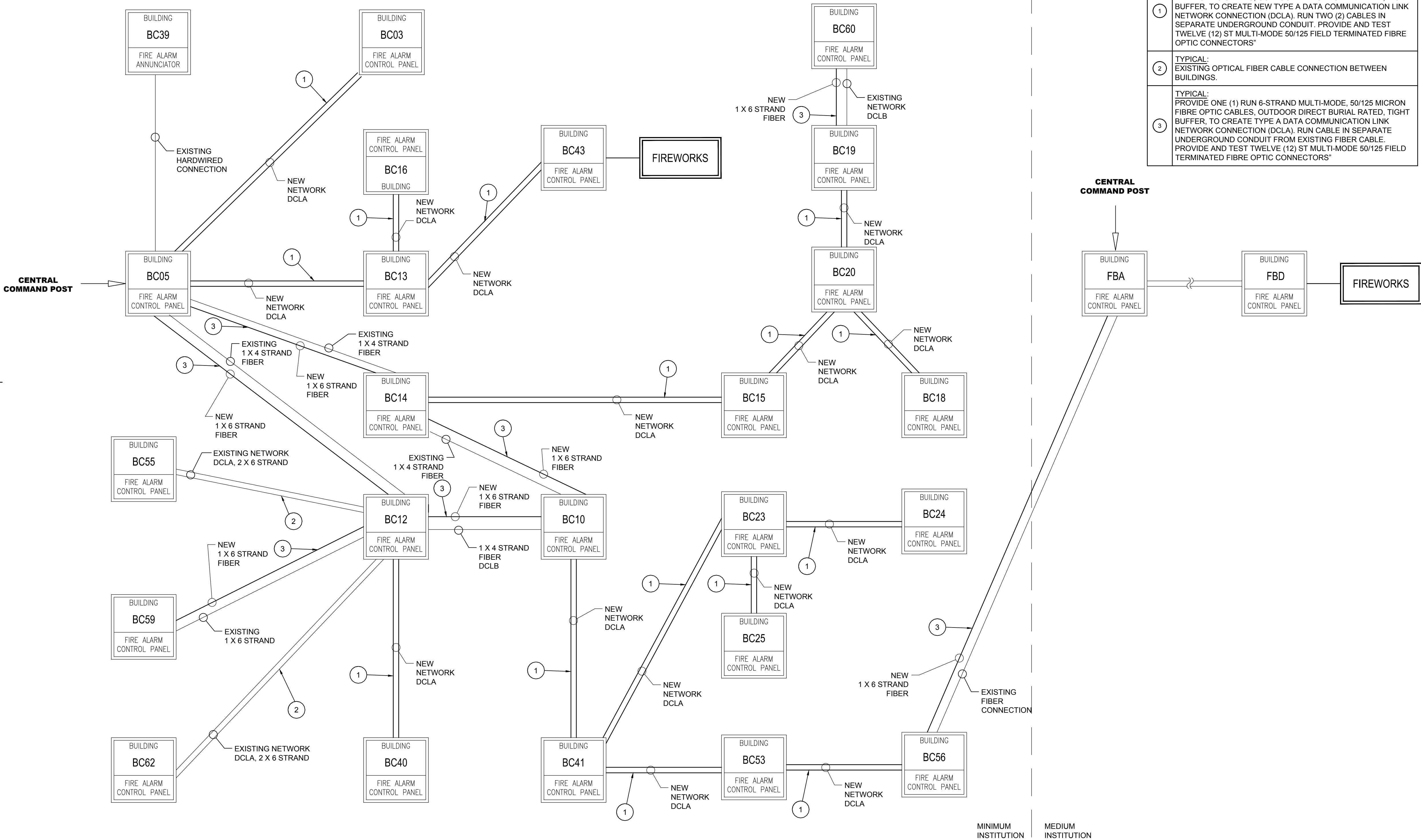
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BEAVER CREEK INSTITUTION	
FIRE ALARM SYSTEM UPGRADE - PHASE II	
drawing title titre du dessin	FIRE ALARM
OPTICAL FIBER CABLE & UNDERGROUND VAULT EXISTING LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T
designed by conçue par	MIKE XU
approved by approuvé par	JEFFREY DUBEAU
bid offre	G.G. project manager administrateur de projets
project date date du projet	2018-01-19
project no. no. du projet	R.080201.001
drawing no. dessiné no.	BC00_E100





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**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
OPTICAL FIBER NETWORK  
RISER DIAGRAM  
NEW**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

approved by  
approuvé par  
**JEFFREY DUBEAU**

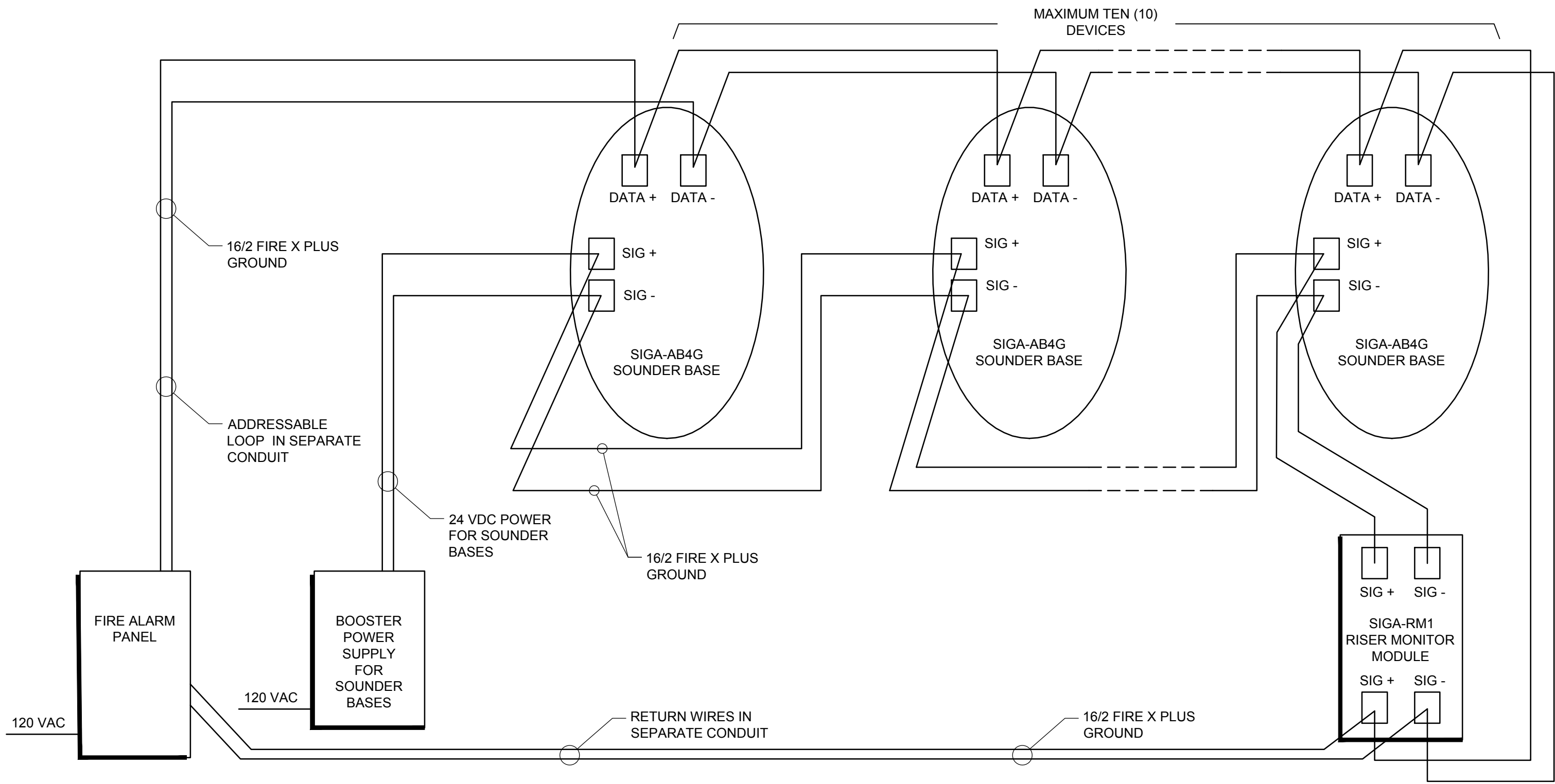
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de projets

project date  
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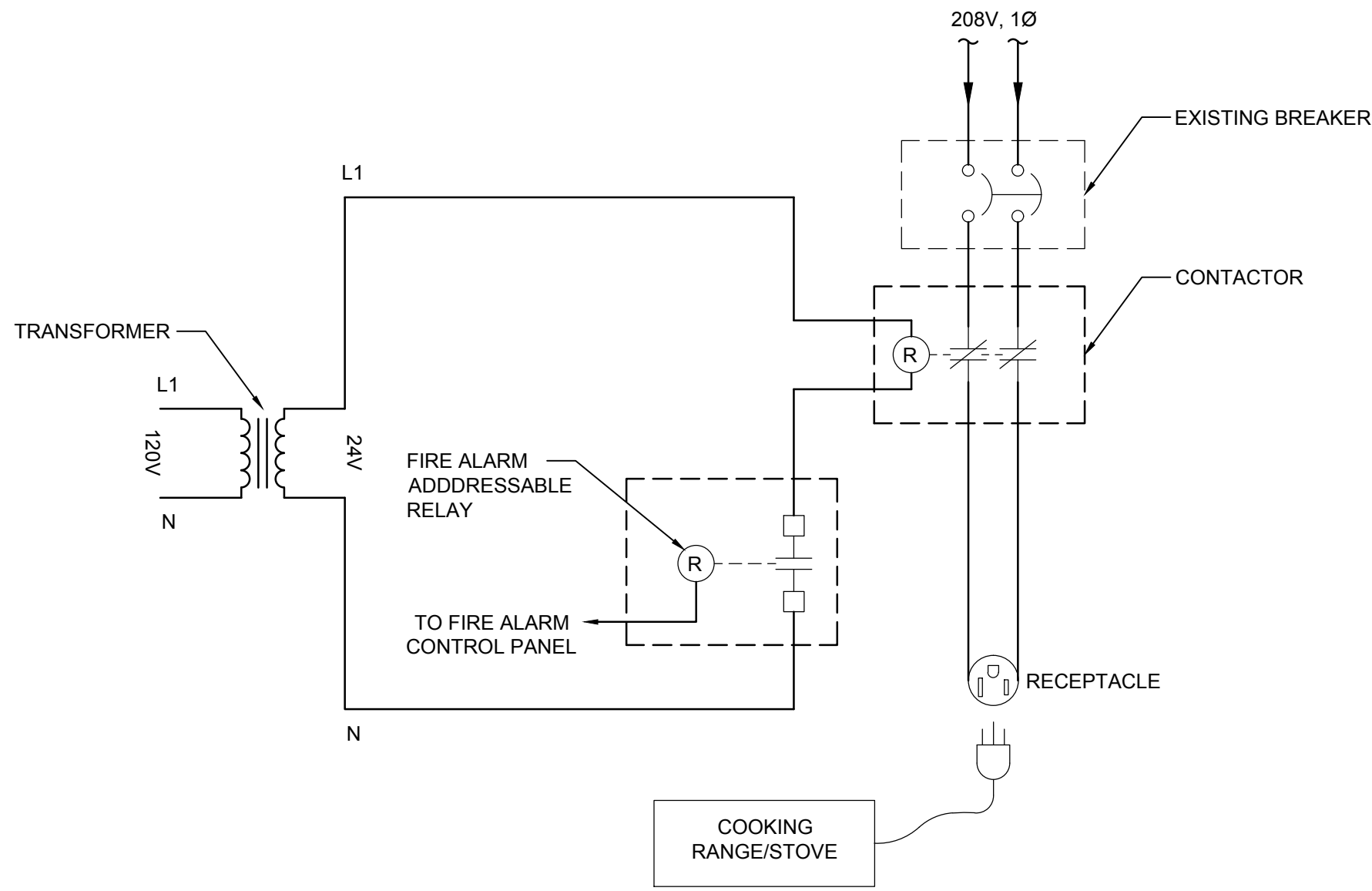
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drawing no.  
dessiné no.  
**BC00\_E101**

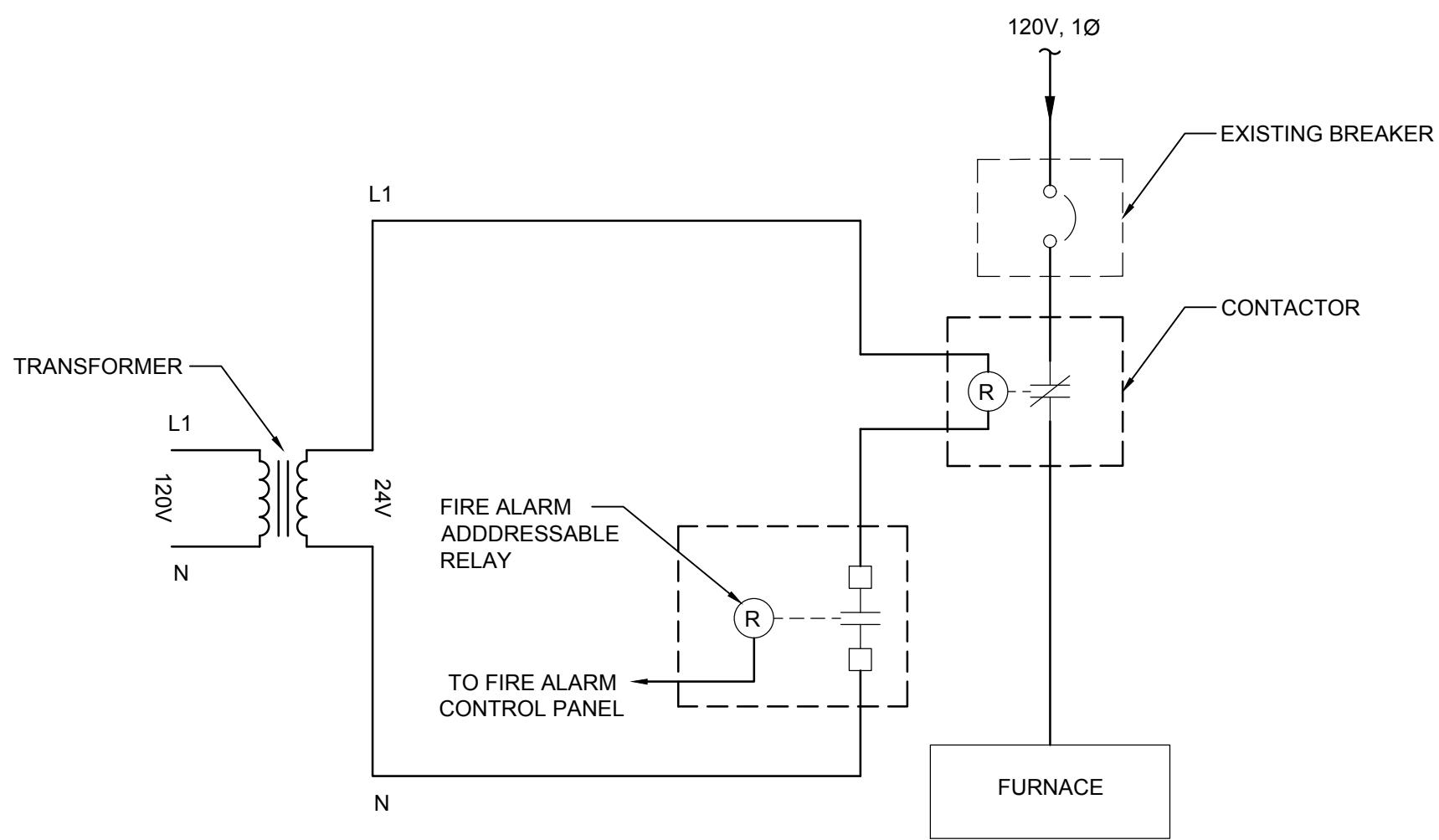




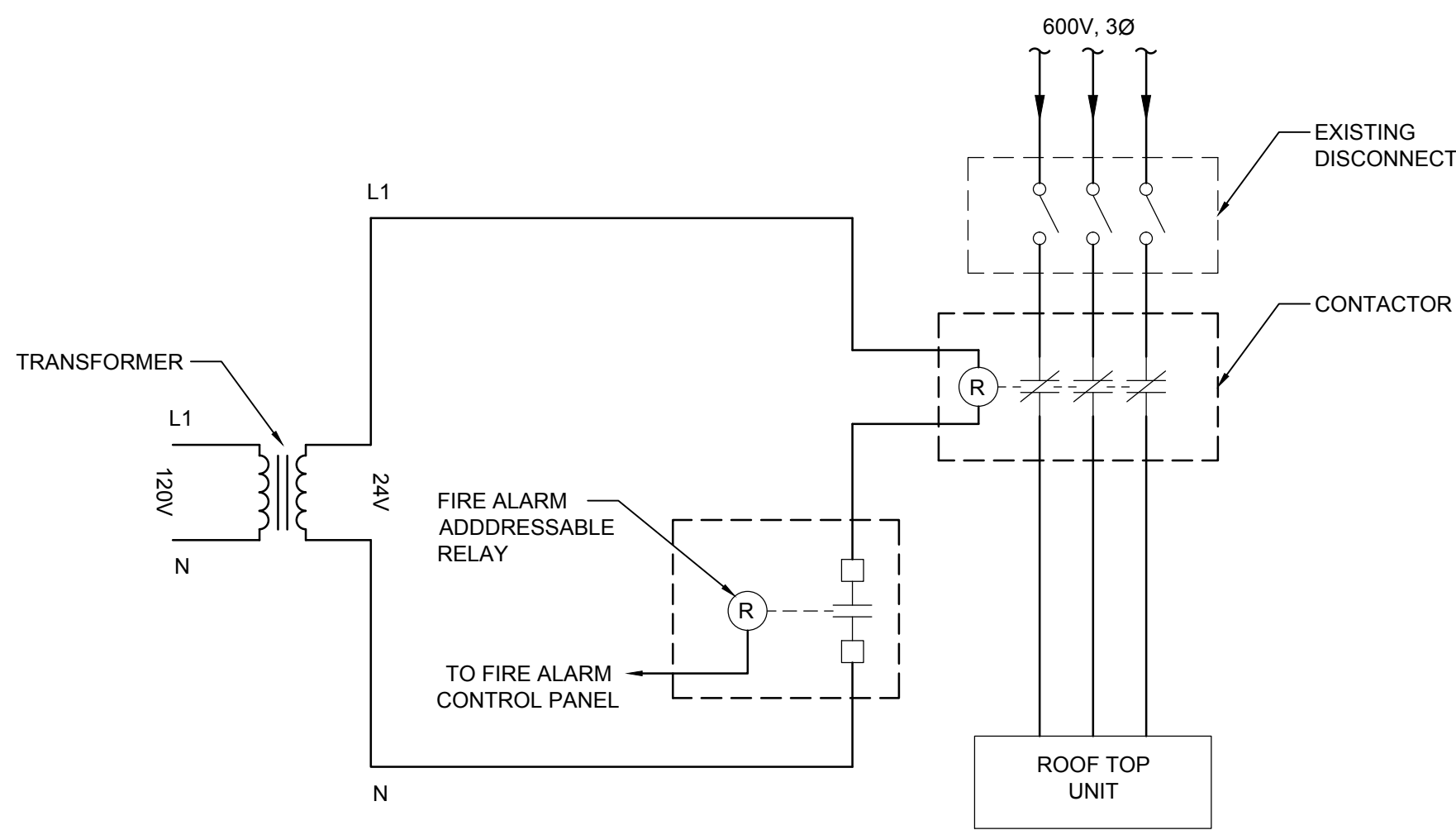
1 SOUNDER BASE  
SCALE: N.T.S.



2 COOKING RANGE/STOVE  
INTERLOCK SCHEMATIC  
SCALE: N.T.S.



3 FURNACE  
INTERLOCK SCHEMATIC  
SCALE: N.T.S.



4 ROOF TOP UNIT  
INTERLOCK SCHEMATIC  
SCALE: N.T.S.



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**FIRE ALARM SYSTEM**  
**UPGRADE - PHASE II**  
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**FIRE ALARM**  
**WIRING DIAGRAM**

drawn by  
dessiné par  
D. GINGRAS/J.L.C/J.C/T.T

designed by  
conçu par  
MIKE XU

approved by  
approuvé par  
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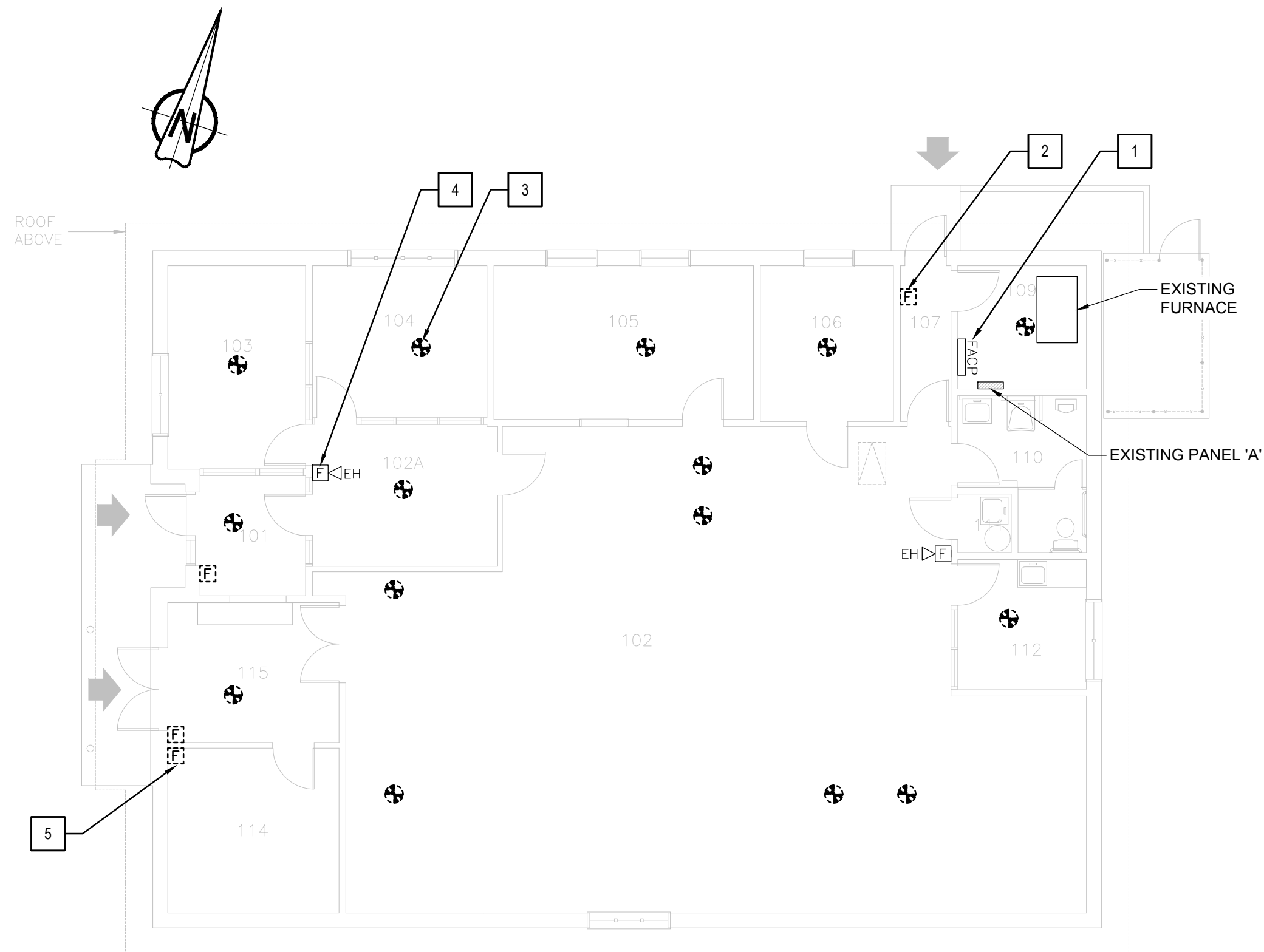
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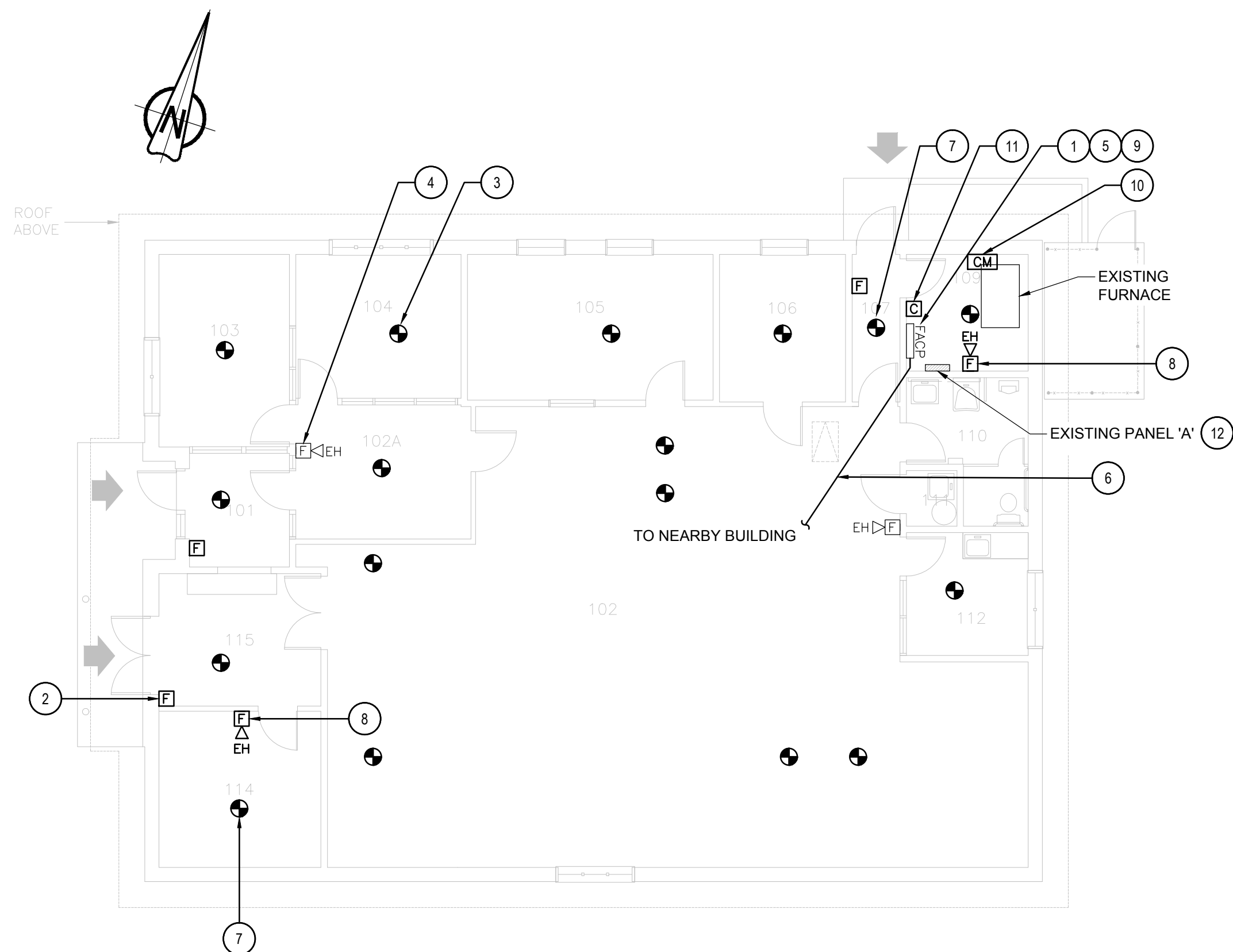
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drawing no.  
dessiné no.  
BC00\_E102





**2** GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



**3** GROUND FLOOR - NEW LAYOUT  
SCALE: 1:100

### DRAWING NOTES - DEMOLITION

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS #EST3X TO REMAIN. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM AND TROUBLE) BACK TO ACTIVITY BUILDING.
- TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
- TYPICAL OF SIXTEEN (16) EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM HORN TO REMAIN.
- EXISTING F/A PULL STATION TO BE REMOVED. REMOVE WIRES FROM EXISTING CIRCUIT. COVER BACK BOX WITH BLANK COVER PLATE.

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

### FIRE ALARM ZONE SCHEDULE

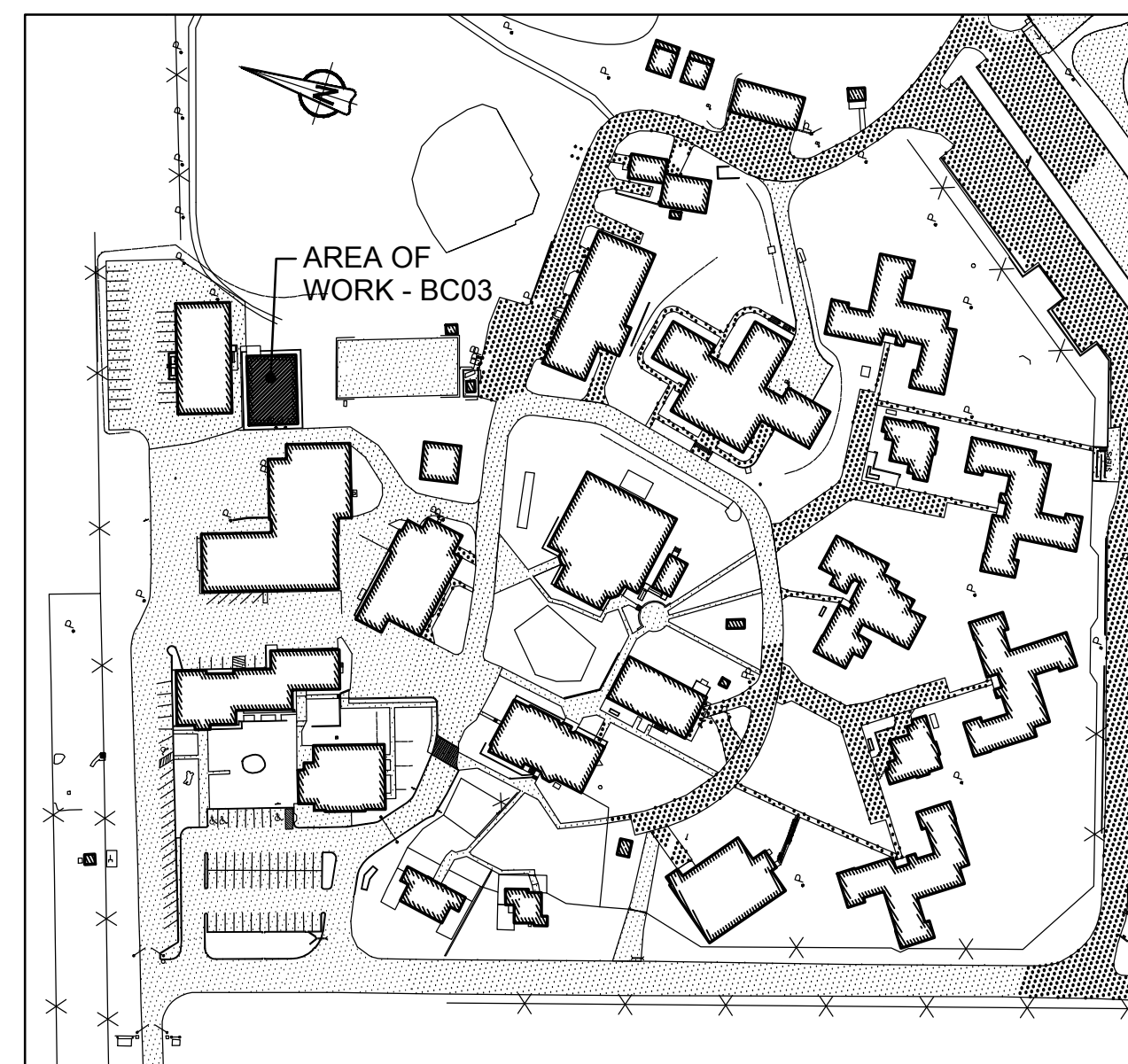
ZONE 1	BUILDING BC03 GROUND FLOOR
--------	----------------------------

### ROOM INDEX

101	VESTIBULE
102	CORCAN MANUFACTURING
103	OFFICE
104	OFFICE
105	OFFICE
106	OFFICE
107	CORRIDOR
109	MECHANICAL
110	WASHROOM
111	JANITOR
112	COFFEE ROOM
114	STORAGE
115	VESTIBULE

### DRAWING NOTES - NEW

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS #EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP F, DIVISION 3 OCCUPANCIES, UN-SPRINKLERED BUILDING. UPDATE FIRE ALARM ZONE NAME TAG ON DISPLAY MODULE AS PER FIRE ALARM ZONE SCHEDULE.
- TYPICAL OF FOUR (4) NEW ADDRESSABLE FIRE ALARM PULL STATION AT A.F.F 1150mm. WIRE BACK TO EXISTING CIRCUIT. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
- TYPICAL OF SIXTEEN (16) NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR AT EXISTING LOCATION. WIRE BACK TO EXISTING CIRCUIT.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM HORN TO REMAIN.
- INSTALL FIBER OPTIC COMMUNICATION INTERFACE CARD IN EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS #EST3X AND CONNECT TO NEW FIBER OPTIC CABLE.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL AT BUILDING BC03 UP TO FIRE ALARM CONTROL PANEL AT BUILDING NEARBY, VIA EXISTING UNDERGROUND CONDUIT, AND MAKE CONNECTION. REFER TO BC00\_E100 FOR UNDERGROUND FIBER OPTIC CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTION.
- TYPICAL OF TWO (2) PROVIDE NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR AT LOCATION AS SHOWN. WIRE NEW HEAT DETECTOR TO EXISTING FIRE ALARM CIRCUIT.
- TYPICAL OF TWO (2) PROVIDE NEW FIRE ALARM HORN TO MATCH EXISTING AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE VERIFICATION REPORT.
- RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.
- PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE, CHUBB EDWARDS #SIGA-GR, FOR FURNACE FIRE ALARM SHUT DOWN. WIRE TO SHUTDOWN CIRCUIT AND FA CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- PROVIDE CONTACTOR FOR FURNACE FAN CIRCUIT NUMBER A#37, 20A, 1P AND A NEW 120/24V TRANSFORMER FOR CONTROL CIRCUIT.
- PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'A' FOR TRANSFORMER 120V INPUT CIRCUIT. CIRCUIT NUMBER A#21.



**1** KEY PLAN  
BUILDING BC03 - CORCAN  
SCALE: 1:2000



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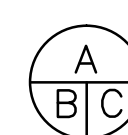


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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

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B drawing no. - where detail required  
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project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC03-CORCAN BUILDING**

**DEMOLITION & NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur  
de projets

project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC03\_E200**



ROOM INDEX

101	SHIPPING / RECEIVING
103	SHIPPING / RECEIVING
108	STORAGE
109	OFFICE / STORAGE
110	MECHANICAL ROOM
111	CORRIDOR
112	OFFICE
113	OFFICE
115	WASHROOM / STAFF UNISEX
116	WASHROOM / INMATES
117	JANITOR
118	FOOD PREPARATION
119	FRIDGE
120	FREEZER
121	MEAT PREPARATION
122	FREEZER
123	FREEZER
124	FOOD STORAGE
125	FOOD PREPARATION
E101	SHIPPING / RECEIVING
E102	STORAGE SUPPLIES
E103	STORAGE
E104	CANTEEN
E105	STORAGE
E106	STORAGE
E107	KITCHEN
E108	OFFICE
E109	CORRIDOR
E110	OFFICE
E111	OFFICE
E112	OFFICE
E113	MECHANICAL ROOM
E114	WASHROOM
E115	WASHROOM / HANDICAPPED
E116	VESTIBULE

GENERAL NOTES

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2. CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
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5. TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.



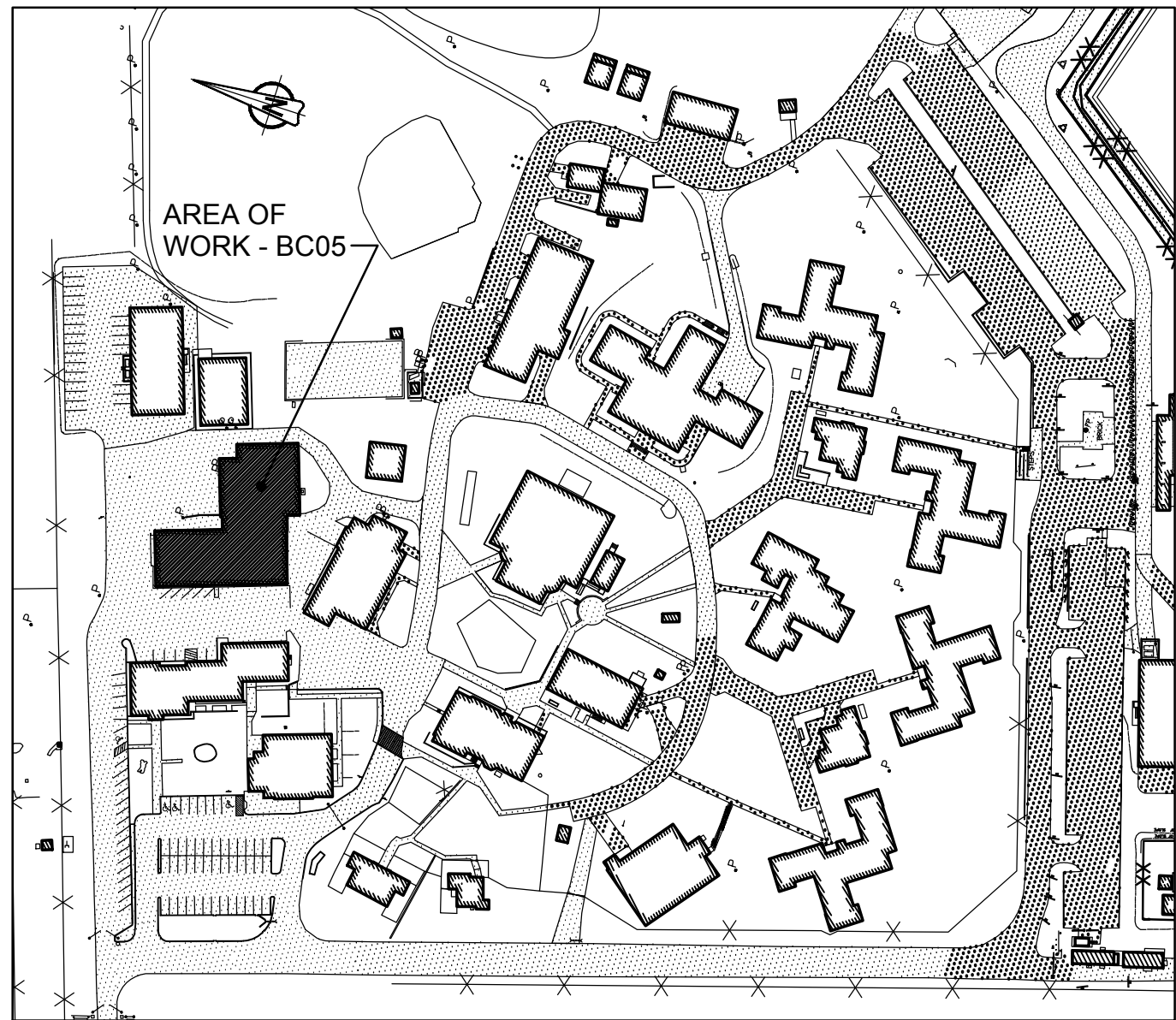
2 GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100

DRAWING NOTES - DEMOLITION

1. EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS #EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP E OCCUPANCIES, SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED.
2. TYPICAL OF SIX (6) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3. TYPICAL OF TWENTY-ONE (21) EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. REMOVE WIRES FROM EXISTING CIRCUIT AND PROVIDE COVER PLATE FOR EXISTING BACK BOX.
4. TYPICAL OF SEVEN (7) EXISTING FIRE ALARM BELL TO REMAIN.
5. EXISTING SMOKE DETECTOR TO REMAIN.
6. TYPICAL OF TWO (2) EXISTING FLOW SWITCH TO REMAIN
7. TYPICAL OF TWO (2) EXISTING PRESSURE SWITCH TO REMAIN.
8. TYPICAL OF EIGHT (8) EXISTING TAMPER SWITCH TO REMAIN.
9. EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.

FIRE ALARM ZONE SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC05 FOOD SERVICES 1ST AND 2ND FLOORS
ZONE 2	BUILDING BC05 STORES 1ST FLOOR
ZONE 3	BUILDING BC05 STORES 2ND FLOOR
ZONE 4	BUILDING BC05 SPRINKLER FLOW WET
ZONE 5	BUILDING BC05 SPRINKLER FLOW DRY
ZONE 6	BUILDING BC39
SUPERVISORY SIGNALS	
ZONE 7	BUILDING BC05 SPRINKLER LOW PRESSURE WET
ZONE 8	BUILDING BC05 SPRINKLER VALVE WET
ZONE 9	BUILDING BC05 FIRE HOSE CABINET VALVE BY E114
ZONE 10	BUILDING BC05 FIRE HOSE CABINET VALVE EAST
ZONE 11	BUILDING BC05 FIRE HOSE CABINET VALVE BY E101
ZONE 12	BUILDING BC05 STANDPIPE VALVE
ZONE 13	BUILDING BC05 SPRINKLER CHECK VALVE
ZONE 14	BUILDING BC05 MAIN INCOMING VALVE
ZONE 15	BUILDING BC05 SPRINKLER VALVE DRY
ZONE 16	BUILDING BC05 SPRINKLER LOW PRESSURE DRY



1 KEY PLAN / BUILDING BC05 - STORES / PROCUREMENT / FOOD DISTRIBUTION  
SCALE: 1:2000



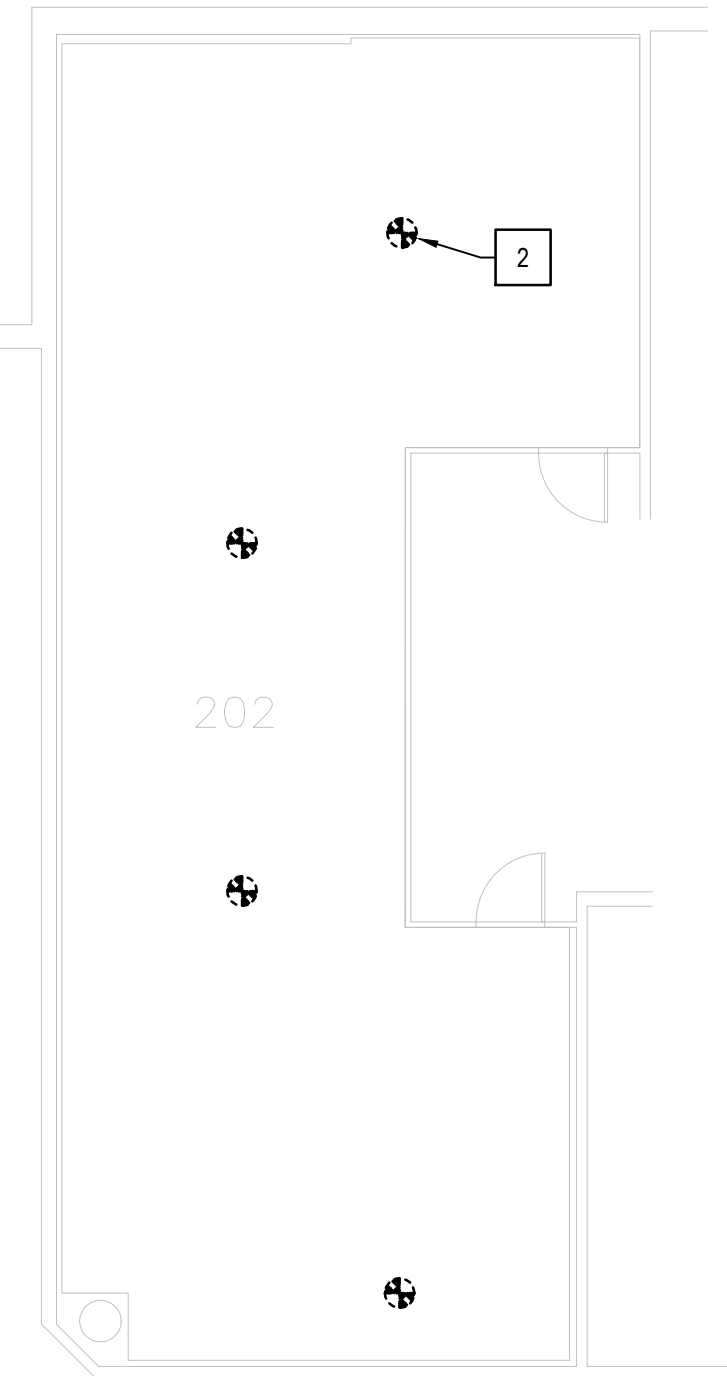
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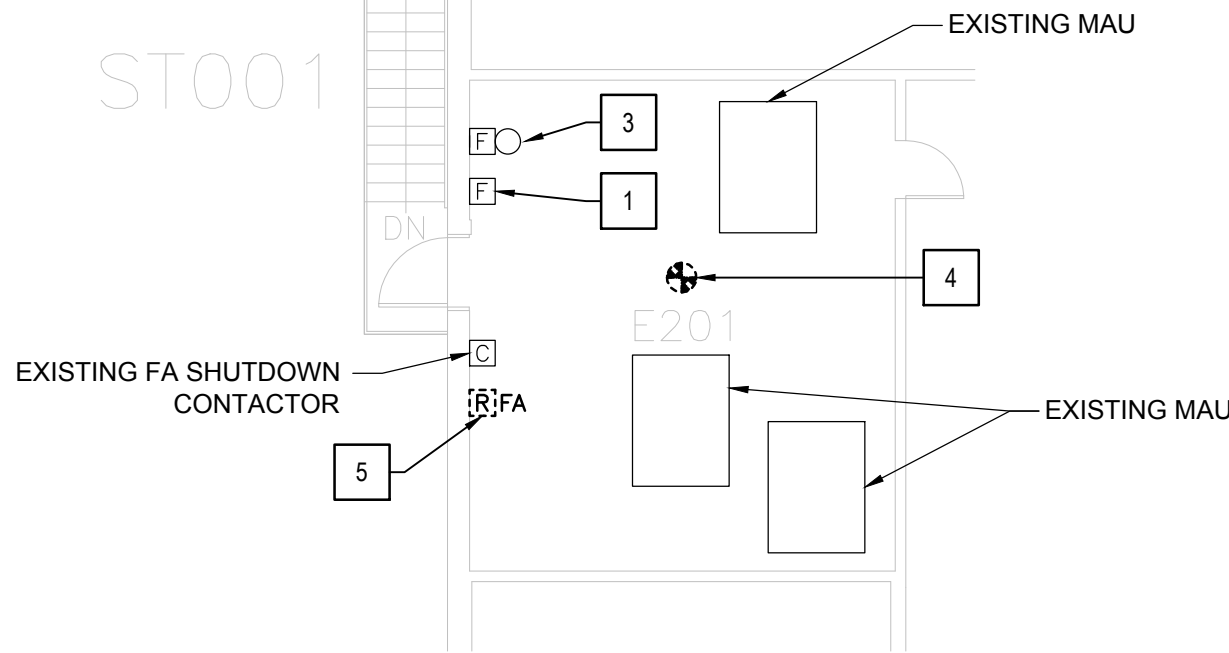
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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC05-STORES/PROCUREMENT FOOD DISTRIBUTION GROUND FLOOR EXISTING LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T/T	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC05_E200	



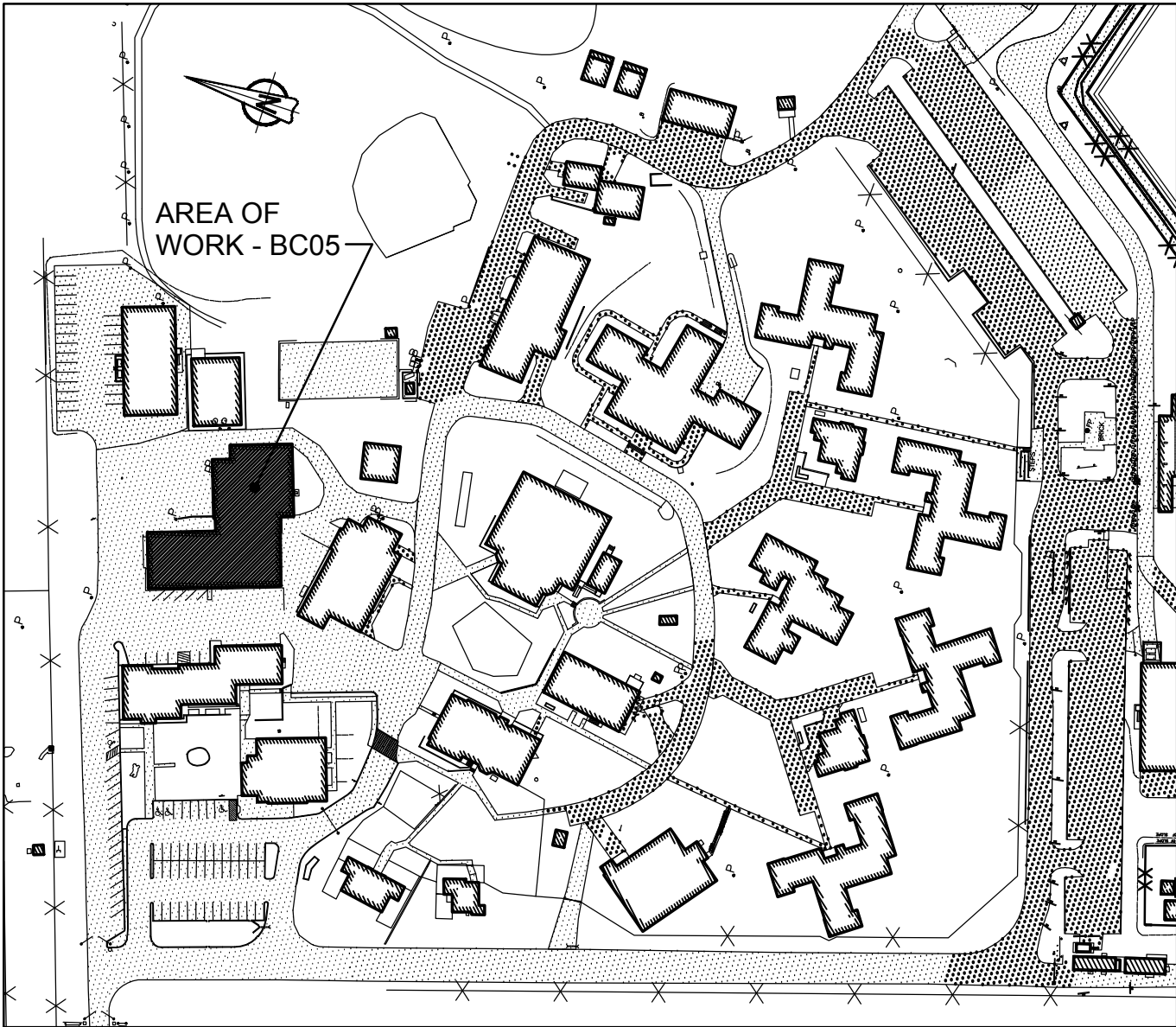


ABOVE FREEZERS IN ROOM 119, 120, 121, 122 AND 123



ABOVE ROOM E102

2 SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN / BUILDING BC05 - STORES / PROCUREMENT / FOOD DISTRIBUTION  
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  - TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
  - PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

- ### DRAWING NOTES - DEMOLITION
- |   |  |
|---|--|
| 1 | EXISTING FIRE ALARM PULL STATION TO REMAIN.  |
| 2 | TYPICAL OF FOUR (4) EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. REMOVE WIRES FROM EXISTING CIRCUIT AND PROVIDE COVER PLATE FOR EXISTING BACK BOX. |
| 3 | EXISTING FIRE ALARM BELL TO REMAIN.  |
| 4 | EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.   |
| 5 | EXISTING FIRE ALARM RELAY TO BE REMOVED.   |

### ROOM INDEX

E201	MECHANICAL ROOM
ST001	EXTERIOR STAIR NO.1
M201	MECHANICAL ROOM
202	COMPRESSOR / AIR HANDLER ROOM

### FIRE ALARM ZONE SCHEDULE

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BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin  
FIRE ALARM  
BC05-STORES/PROCUREMENT  
FOOD DISTRIBUTION  
SECOND FLOOR  
DEMOLITION LAYOUT

drawn by  
dessine par  
D. GINGRAS/J.L.C/J.C/T.T

designed by  
conc par  
MIKE XU

approved by  
approuve par  
JEFFREY DUBEAU

bid  
offre  
G.G. project manager  
administrateur de projets

project date  
date du projet  
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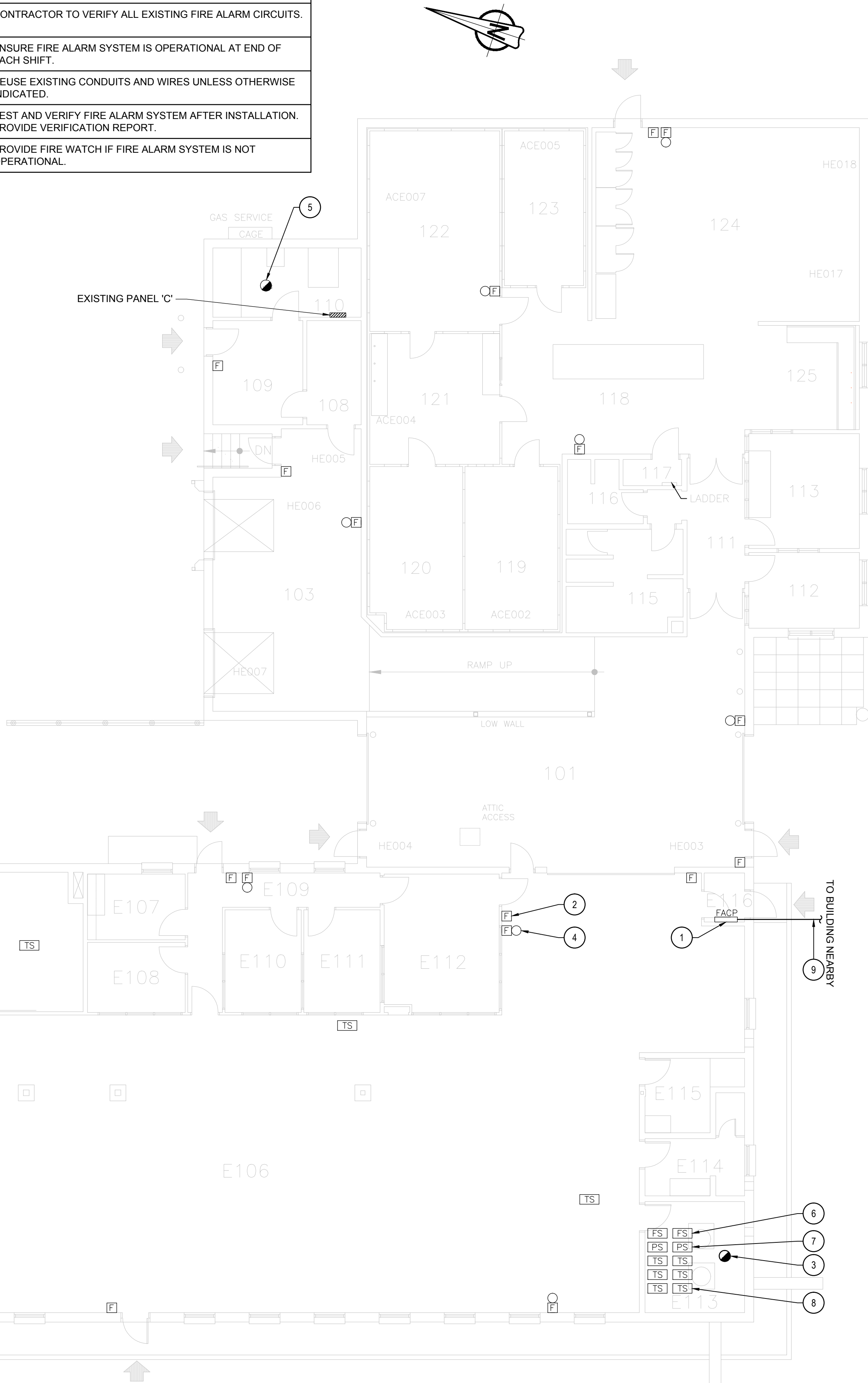
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dessine no.  
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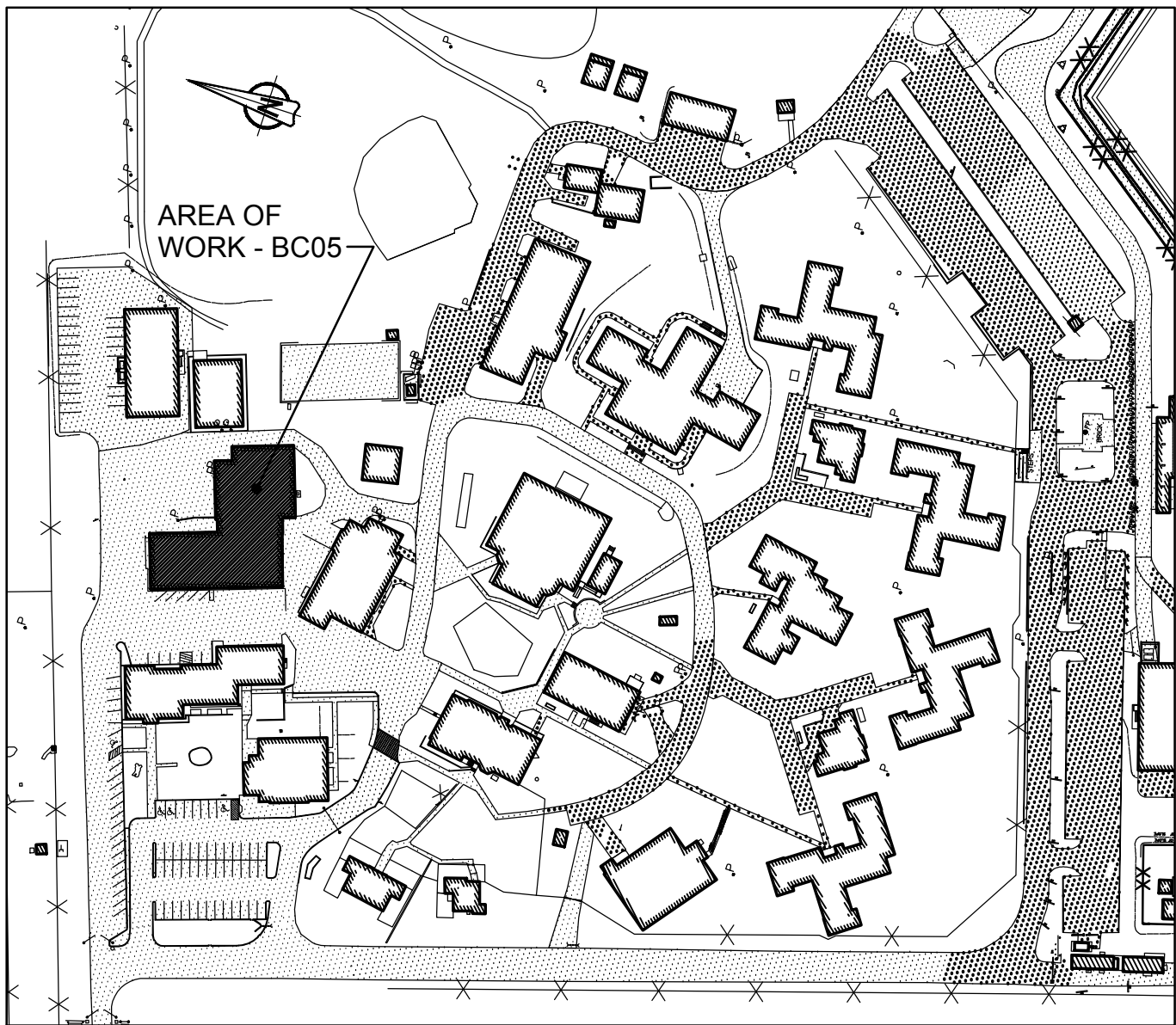
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4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
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DRAWING NOTES - NEW	
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2	TYPICAL OF SIX (6) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3	PROVIDE NEW ADDRESSABLE SMOKE DETECTOR AT EXISTING DETECTOR LOCATION. WIRE TO NEAREST SMOKE DETECTOR CIRCUIT.
4	TYPICAL OF SEVEN (7) EXISTING FIRE ALARM BELL TO REMAIN.
5	EXISTING SMOKE DETECTOR TO REMAIN.
6	TYPICAL OF TWO (2) EXISTING FLOW SWITCH TO REMAIN
7	TYPICAL OF TWO (2) EXISTING PRESSURE SWITCH TO REMAIN.
8	TYPICAL OF EIGHT (8) EXISTING TAMPER SWITCH TO REMAIN.
9	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.

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BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC05-STORES/PROCUREMENT FOOD DISTRIBUTION GROUND FLOOR NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
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drawing no. dessiné no.	BC05_E202	



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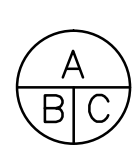
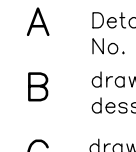
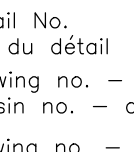


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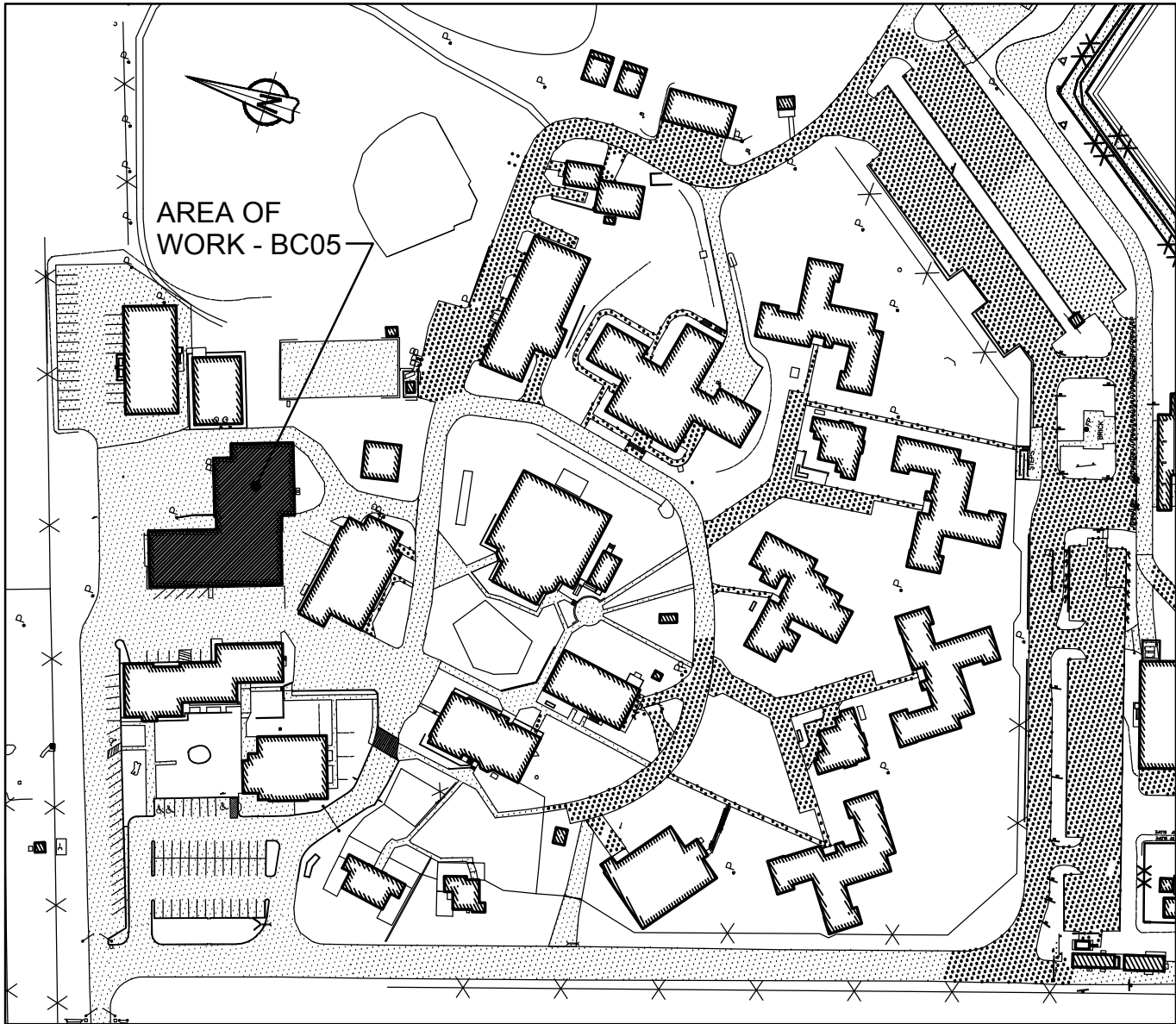


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FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC05-STORES/PROCUREMENT FOOD DISTRIBUTION SECOND FLOOR NEW LAYOUT	
drawn by dessine par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuve par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
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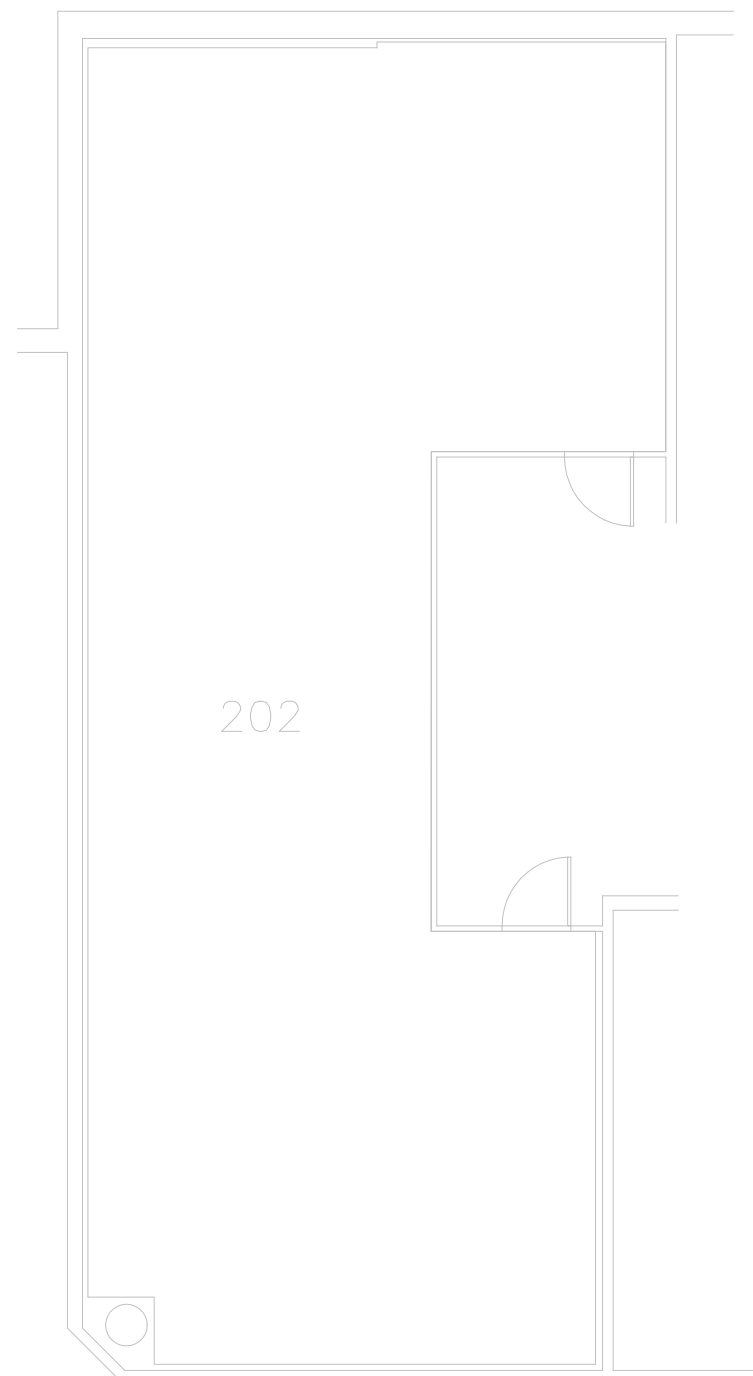


**KEY PLAN**  
**BUILDING BC05 - STORES / PROCUREMENT / FOOD DISTRIBUTION**  
SCALE: 1:2000

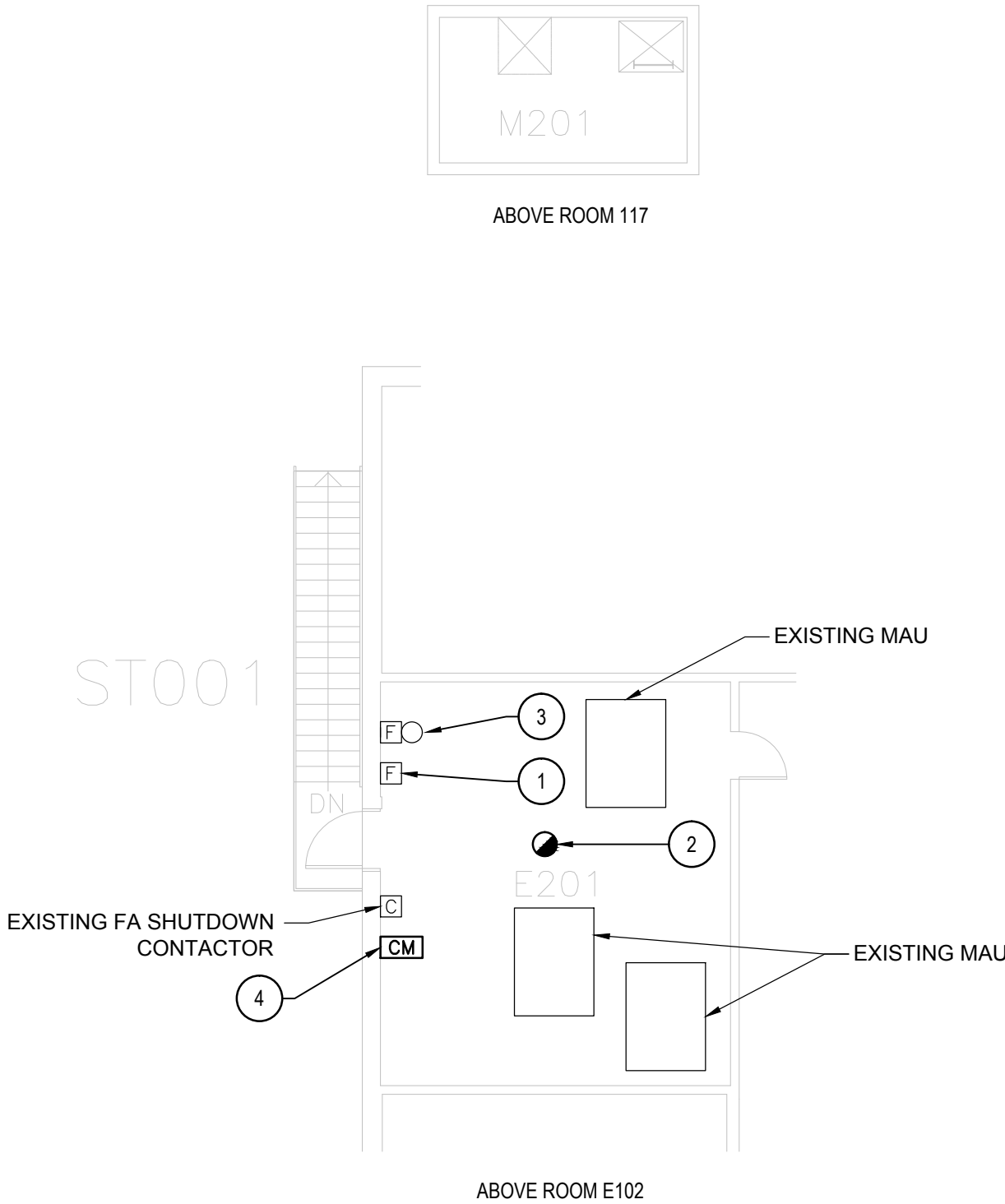
DRAWING NOTES - NEW	
①	EXISTING FIRE ALARM PULL STATION TO REMAIN.
②	PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AT EXISTING DETECTOR LOCATION. WIRE TO NEAREST SMOKE DETECTOR CIRCUIT.
③	EXISTING FIRE ALARM BELL TO REMAIN.
④	PROVIDE NEW ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE, MODEL CHUBB EDWARDS # SIGA-CR, WIRE TO EXISTING FIRE ALARM SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.

ROOM INDEX	
E201	MECHANICAL ROOM
ST001	EXTERIOR STAIR NO.1
M201	MECHANICAL ROOM
202	COMPRESSOR / AIR HANDLER ROOM

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC05 FOOD SERVICES 1ST AND 2ND FLOORS
ZONE 2	BUILDING BC05 STORES 1ST FLOOR
ZONE 3	BUILDING BC05 STORES 2ND FLOOR
ZONE 4	BUILDING BC05 SPRINKLER FLOW WET
ZONE 5	BUILDING BC05 SPRINKLER FLOW DRY
ZONE 6	BUILDING BC39
SUPERVISORY SIGNALS	
ZONE 7	BUILDING BC05 SPRINKLER LOW PRESSURE WET
ZONE 8	BUILDING BC05 SPRINKLER VALVE WET
ZONE 9	BUILDING BC05 FIRE HOSE CABINET VALVE BY E114
ZONE 10	BUILDING BC05 FIRE HOSE CABINET VALVE EAST
ZONE 11	BUILDING BC05 FIRE HOSE CABINET VALVE BY E101
ZONE 12	BUILDING BC05 STANDPIPE VALVE
ZONE 13	BUILDING BC05 SPRINKLER CHECK VALVE
ZONE 14	BUILDING BC05 MAIN INCOMING VALVE
ZONE 15	BUILDING BC05 SPRINKLER VALVE DRY
ZONE 16	BUILDING BC05 SPRINKLER LOW PRESSURE DRY



ABOVE FREEZERS IN ROOM 119, 120, 121, 122 AND 123



**2 SECOND FLOOR - NEW LAYOUT**  
SCALE: 1:100





GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, UN-SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED.
2	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3	EXISTING FIRE ALARM PULL STATION TO BE REMOVED. REMOVE WIRES FROM EXISTING CIRCUIT. COVER BACK BOX WITH BLANK PLATE.
4	TYPICAL OF EIGHT (8) EXISTING FIRE ALARM HEAT DETECTOR TO REMAIN.
5	TYPICAL OF SIX (6) EXISTING FIRE ALARM BELL TO REMAIN.
6	EXISTING SPRINKLER FLOW SWITCH C/W MONITOR MODULE TO REMAIN.
7	EXISTING KITCHEN HOOD SHUT DOWN RELAY TO BE REMOVED.
8	EXISTING FIRE ALARM OVEN SPRINKLER FLOW SWITCH TO BE REMOVED.
9	EXISTING FIRE ALARM OVER SPRINKLER TAMPER SWITCH TO BE REMOVED.
10	TYPICAL OF TWO (2) EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.
11	EXISTING STOVE SHUTDOWN CONTACTOR AND ASSOCIATED FIRE ALARM ACCESSORIES TO BE REMOVED. REMOVE WIRE C/W CONDUIT BACK TO SOURCE.

ROOM INDEX	
101	VESTIBULE
102	CORRIDOR / KITCHENETTE
103	CHAPEL
104	KITCHEN
107	WASHROOM
108	JANITOR
110	WALK IN COOLER
111	VESTIBULE
112	DRY STORAGE
114	VESTIBULE
116	INSTRUCTION ROOM
117	CHAPLIN'S OFFICE
119	WASHROOM
120	WASHROOM
121	OFFICE
123	MEN'S LOCKERS
124	WOMEN'S LOCKERS
125	CORRIDOR
B01	MECHANICAL ROOM
B02	MECHANICAL / ELECTRICAL ROOM

EXISTING FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC10 GROUND FLOOR
ZONE 2	BUILDING BC10 BASEMENT
ZONE 3	<i>BUILDING BC10 OVEN SPRINKLER FLOW</i>
ZONE 4	<i>BUILDING BC10 KITCHEN HOOD</i>
SUPERVISORY SIGNALS	
ZONE 5	<i>BUILDING BC10 OVEN SPRINKLER TAMPER</i>



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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

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Verify all dimensions and conditions on site and immediately  
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A Detail No.  
No. du détail

B drawing no. — where detail required  
dessin no. — où détail exigé

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dessin no. — où détaillé

project title	
titre du projet	
Gravenhurst	Ontario

BEAVER CREEK INSTITUTION

# FIRE ALARM SYSTEM UPGRADE – PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC10-CHAPEL BUILDING  
BASEMENT & FIRST FLOOR

## DEMOLITION LAYOUT

D. GINGRAS/J.L.C/J.C/T.T

designed by  
conc par

approved by  
approuvé par

JEFFREY DUBEAU

bid	
offre	G.G

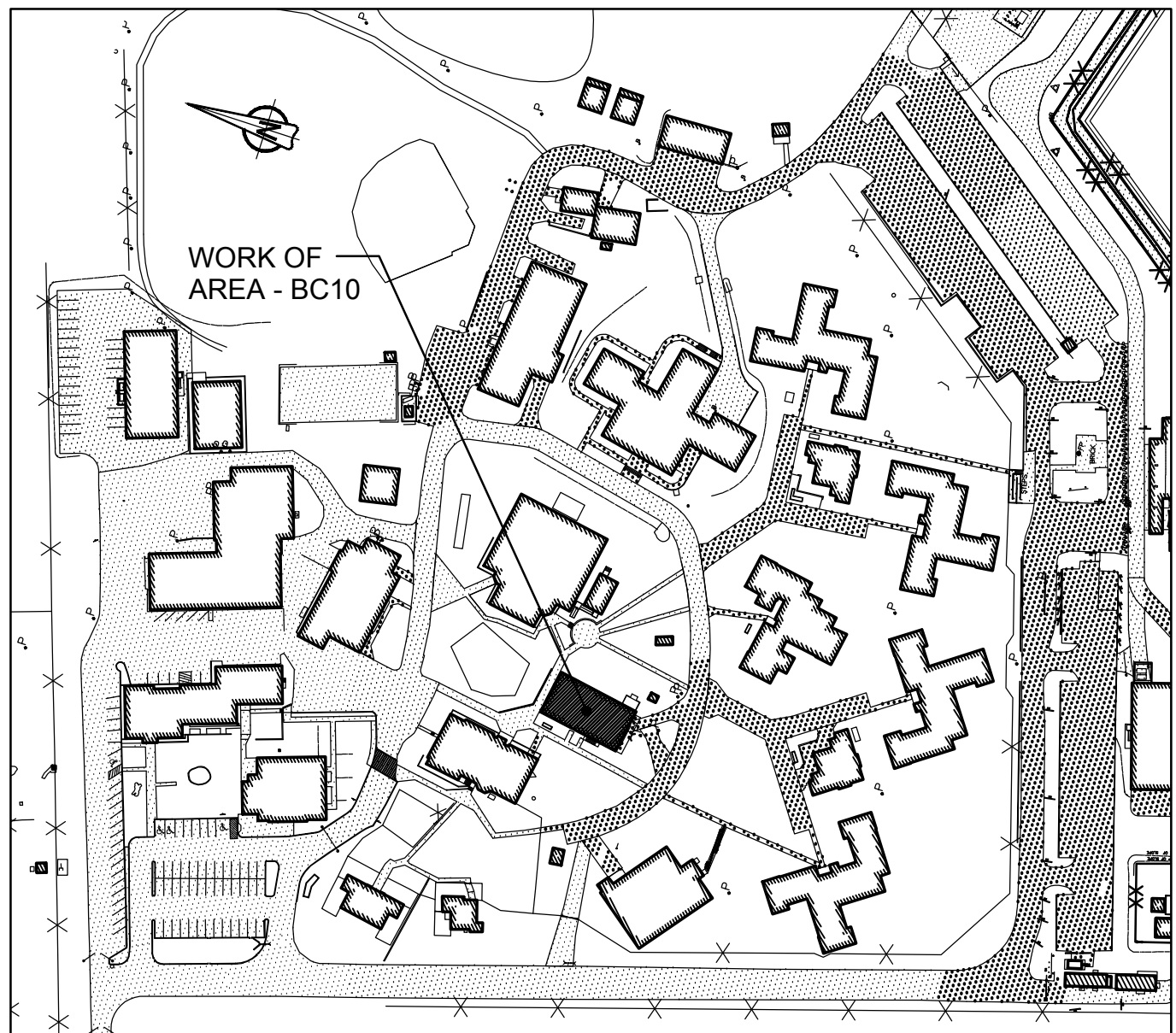
project date  
date du projet 2018-01-19

project no.  
no. du projet

R.080201.001

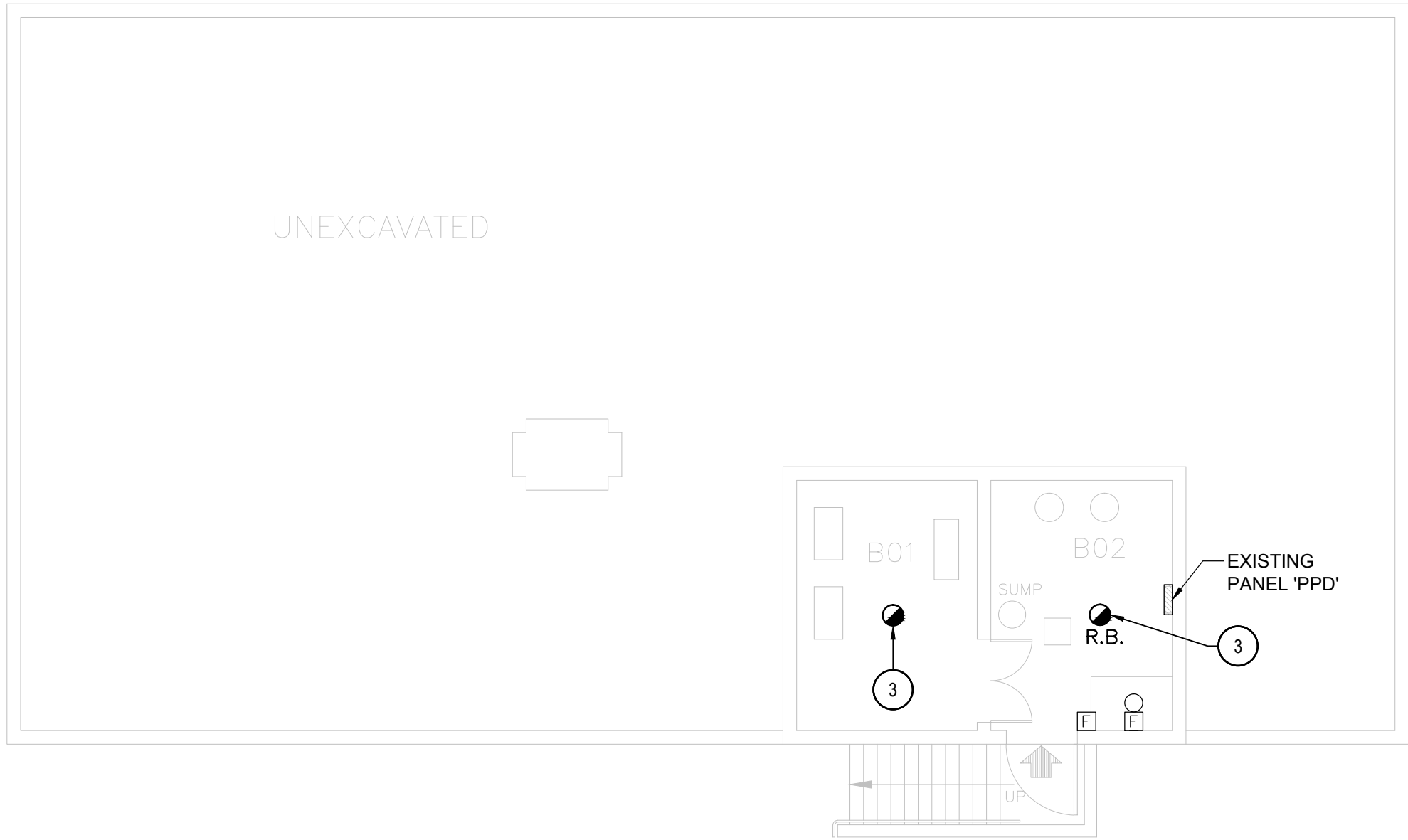
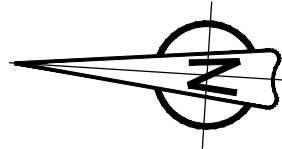
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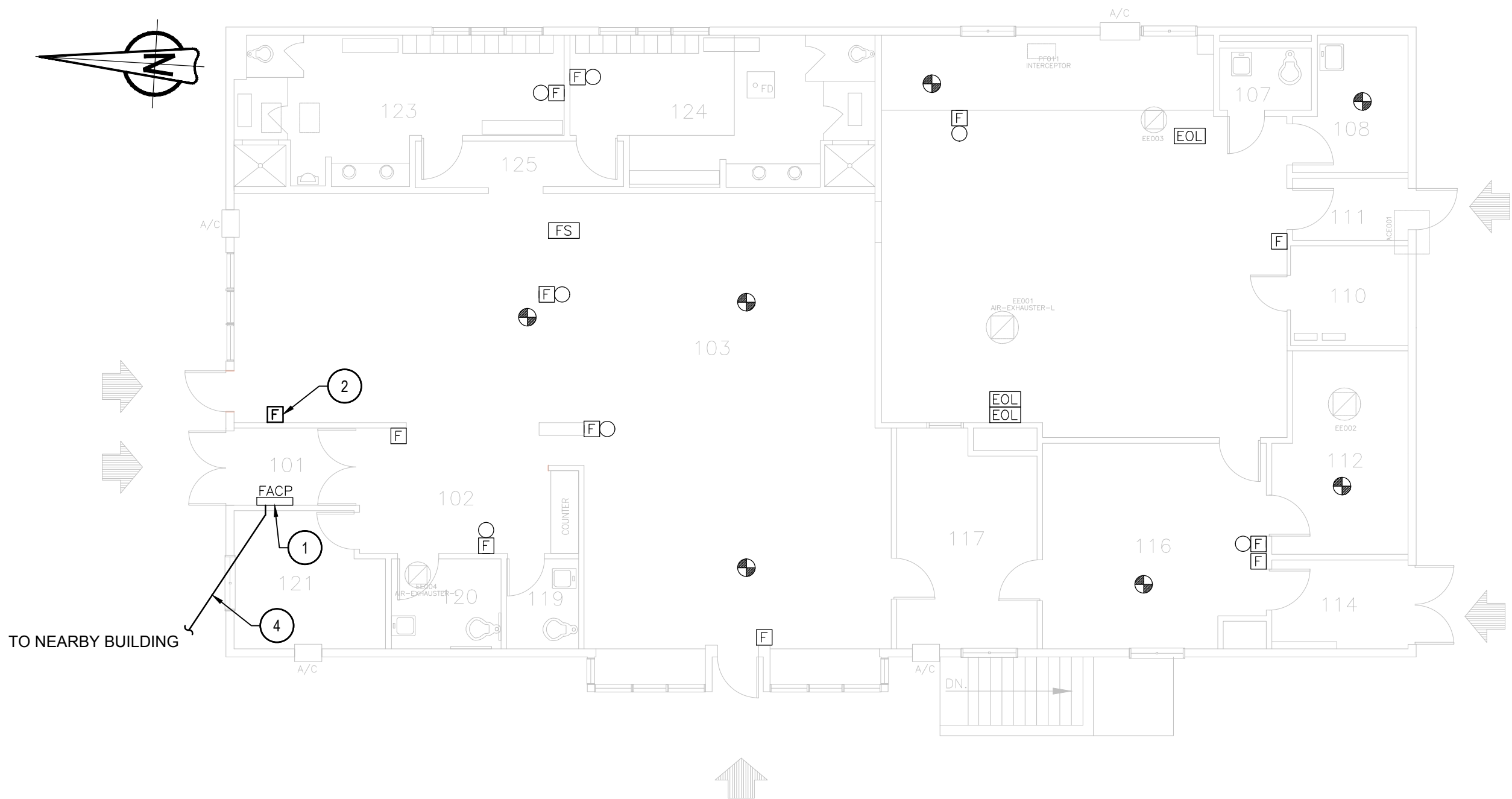
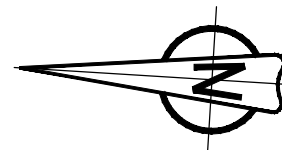


KEY PLAN  
BUILDING BC10 - CHAPEL BUILDING  
SCALE: 1:2000





2 BASEMENT FLOOR - NEW LAYOUT  
SCALE: 1:100



3 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

### DRAWING NOTES - NEW

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, UN-SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED. REPROGRAM AND UPDATE FIRE ALARM CONTROL PANEL PER NEW FIRE ALARM ZONE SCHEDULE. UPDATE FIRE ALARM ZONE LABEL AT THE PANEL.
- PROVIDE A NEW ADDRESSABLE FIRE ALARM PULL STATION AT A.F.F. 1150mm AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE FIRE ALARM VERIFICATION REPORT.
- TYPICAL OF TWO (2)  
PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AT EXISTING DETECTOR LOCATION. WIRE TO EXISTING CIRCUIT.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL AT BUILDING BC10 UP TO FIRE ALARM CONTROL PANEL AT BUILDING NEARBY, VIA EXISTING UNDERGROUND CONDUIT, AND MAKE CONNECTION. REFER TO BC00\_E100 FOR UNDERGROUND FIBER OPTIC CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.

### ROOM INDEX

101	VESTIBULE
102	CORRIDOR / KITCHENETTE
103	CHAPEL
104	KITCHEN
107	WASHROOM
108	JANITOR
110	WALK IN COOLER
111	VESTIBULE
112	DRY STORAGE
114	VESTIBULE
116	INSTRUCTION ROOM
117	CHAPLIN'S OFFICE
119	WASHROOM
120	WASHROOM
121	OFFICE
123	MEN'S LOCKERS
124	WOMEN'S LOCKERS
125	CORRIDOR
B01	MECHANICAL ROOM
B02	MECHANICAL / ELECTRICAL ROOM

### NEW FIRE ALARM ZONE SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC10 GROUND FLOOR
ZONE 2	BUILDING BC10 BASEMENT



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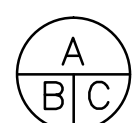


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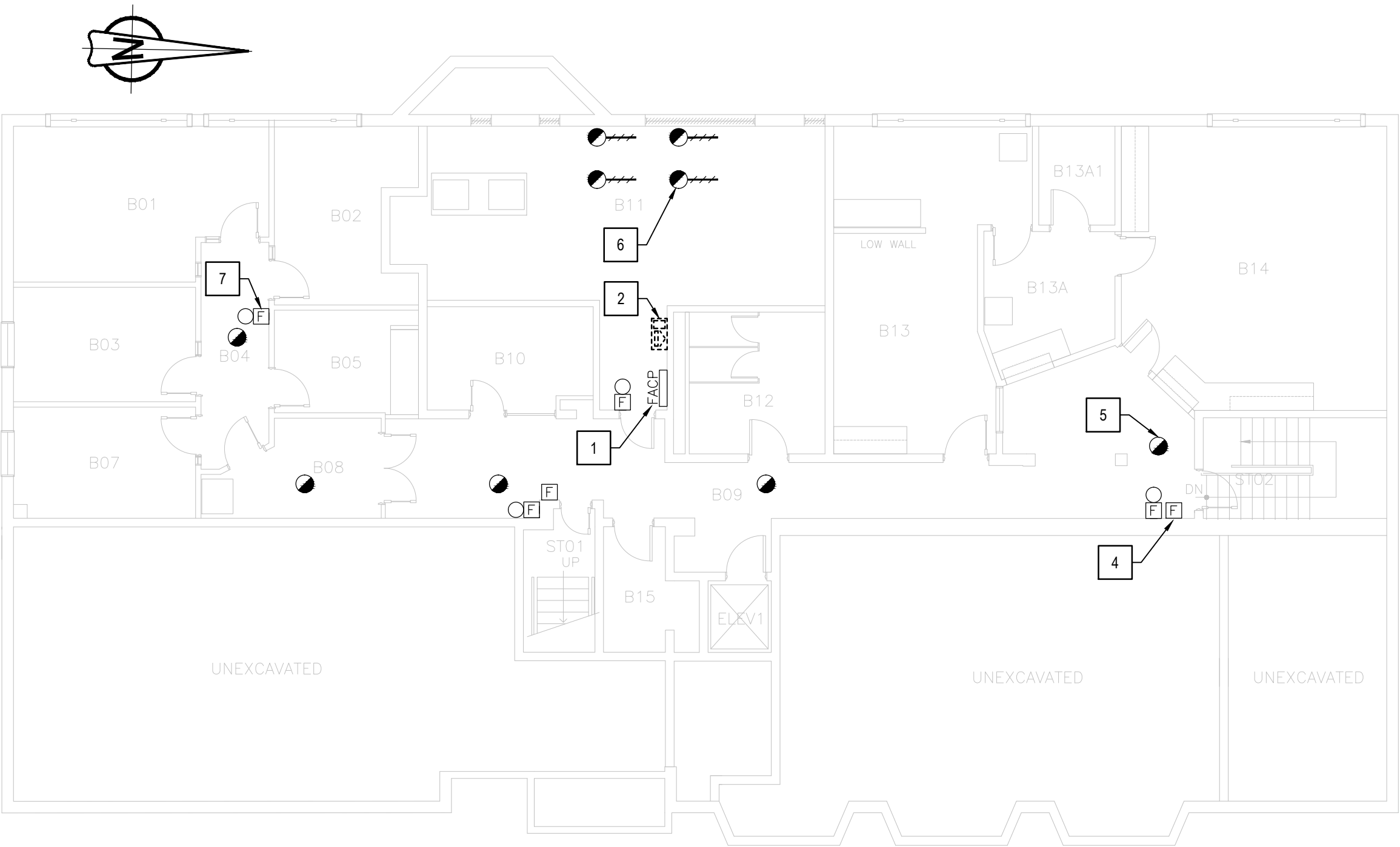
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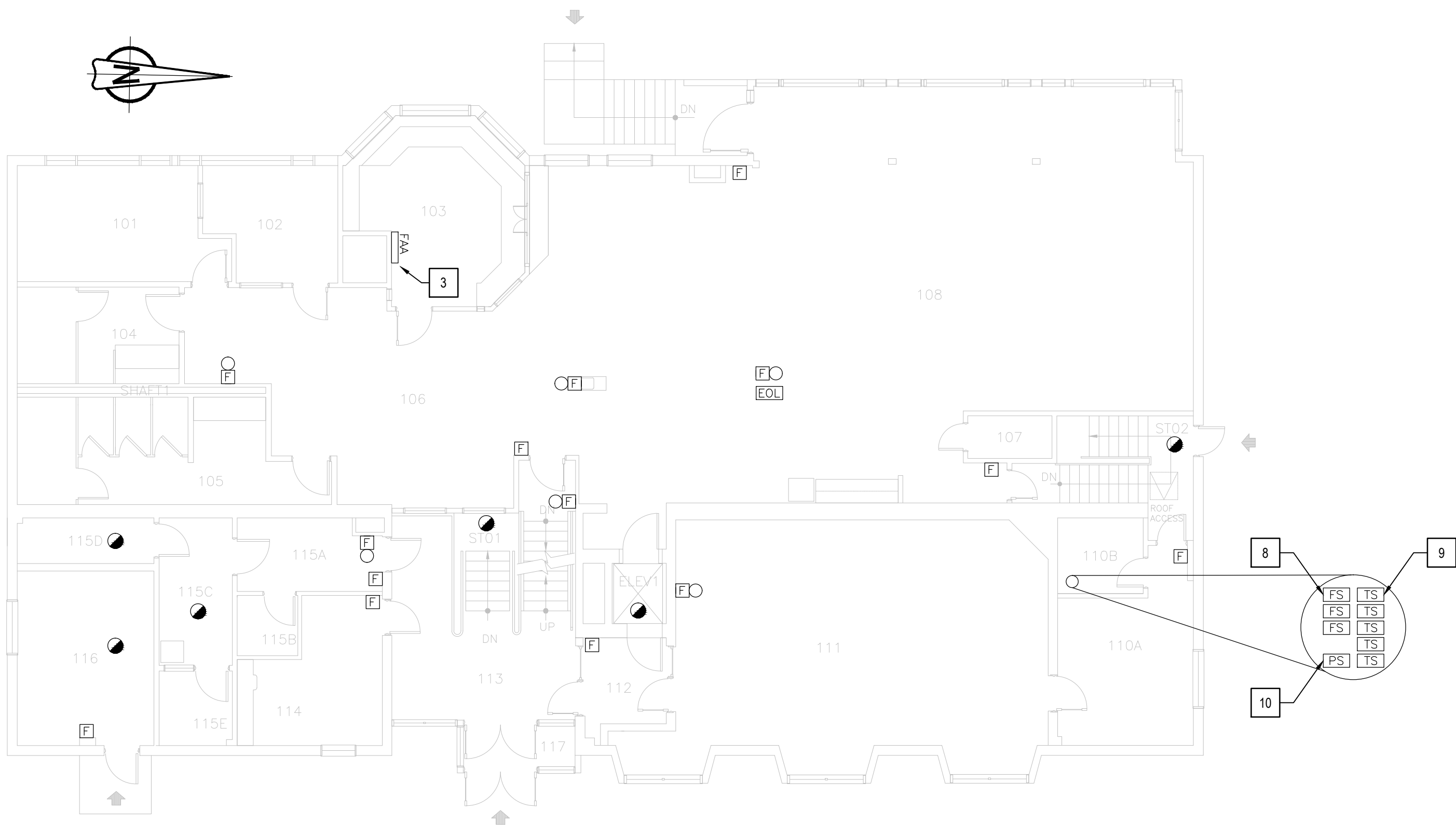
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project title titre du projet	Gravenhurst		Ontario
BEAVER CREEK INSTITUTION			
FIRE ALARM SYSTEM UPGRADE – PHASE II			
drawing title titre du dessin	FIRE ALARM BC10-CHAPEL BUILDING BASEMENT & FIRST FLOOR		
NEW LAYOUT			
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.		
designed by conç par	MIKE XU		
approved by approuvé par	JEFFREY DUBEAU		
bid offre	G.G.	project manager administrateur de projets	
project date date du projet	2018–01–19		
project no. no. du projet	R.080201.001		
drawing no. dessiné no.	BC10_E201		

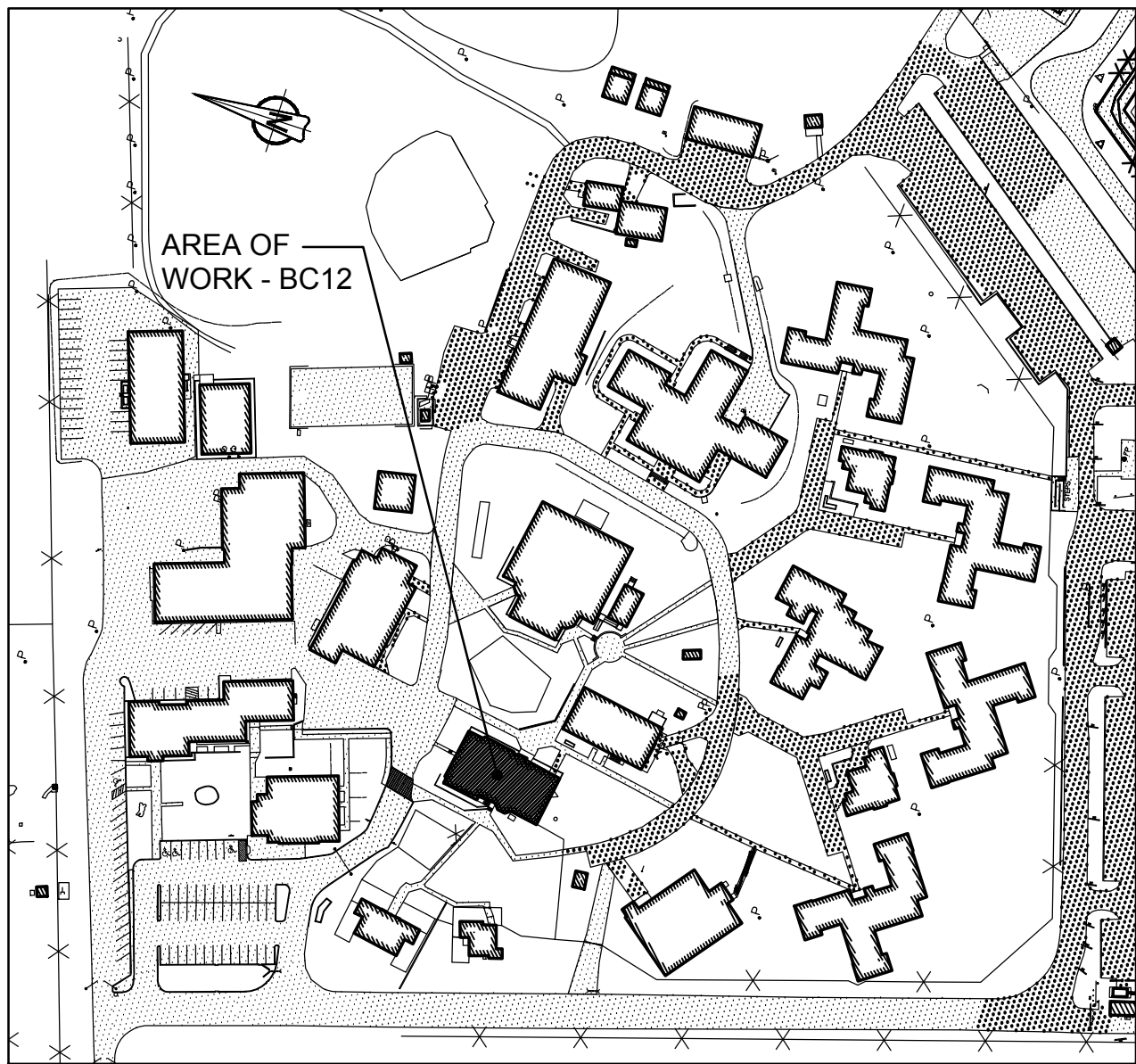




2 BASEMENT FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



3 FIRST FLOOR - EXISTING LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC12 - ACTIVITY BUILDING  
SCALE: 1:2000

### GENERAL NOTES

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- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

### FIRE ALARM ZONE SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC12 DUTY OFFICE LOWER FLOOR
ZONE 2	BUILDING BC12 DUTY OFFICE UPPER FLOOR
ZONE 3	BUILDING BC12 DUTY OFFICE OLD SEG
ZONE 4	BUILDING BC12 DUTY OFFICE STAIR 01
ZONE 5	BUILDING BC12 DUTY OFFICE ELEVATOR SHAFT
ZONE 6	BUILDING BC12 DUTY OFFICE STAIR 02
ZONE 7	BUILDING BC12 DUTY OFFICE DUCT DETECTORS
ZONE 8	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER FLOW
ZONE 9	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER FLOW
ZONE 10	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 11	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER VALVE
ZONE 12	BUILDING BC12 DUTY OFFICE CHECK VALVE OUTLET
ZONE 13	BUILDING BC12 DUTY OFFICE MAIN INCOMING VALVE
ZONE 14	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER VALVE
ZONE 15	BUILDING BC12 DUTY OFFICE SPRINKLER LOW PRESSURE
ZONE 16	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER VALVE

### DRAWING NOTES - DEMOLITION

- EXISTING MAIN FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 OF MINIMUM INSTITUTION TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, SPRINKLERED BUILDING (GROUND FLOOR), OPTICAL FIBER CABLE CONNECTED.
- EXISTING FIRE ALARM FIREWORK TO BE RELOCATED TO OFFICE #103A IN BC43. EXISTING PRINTER AND DISPLAY TO BE REMOVED.
- EXISTING FIRE ALARM ANNUNCIATOR PANEL CHUBB EDWARDS EST3 TO REMAIN.
- TYPICAL OF TEN (10)  
EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF ELEVEN (11)  
EXISTING FIRE ALARM SMOKE DETECTOR TO REMAIN.
- TYPICAL OF FOUR (4)  
EXISTING DUCT TYPE SMOKE DETECTOR TO REMAIN.
- TYPICAL OF EIGHT (8)  
EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF THREE (3)  
EXISTING FLOW SWITCH TO REMAIN.
- TYPICAL OF FIVE (5)  
EXISTING TAMPER SWITCH TO REMAIN.
- EXISTING PRESSURE SWITCH TO REMAIN.

### ROOM INDEX

101	V & C OFFICE
102	OFFICE
103	DUTY OFFICE SEC/COMM EQUIPMENT ROOM
104	MEN'S WASHROOM
105	WOMEN'S WASHROOM / HANDICAPPED
106	QUIET AREA
107	JANITOR ROOM
108	VISITS
110A	CHAPLAIN'S OFFICE
110B	SPRINKLER ROOM
111	CHAPEL
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113	MAIN ENTRANCE
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115A	CORRIDOR
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115C	URINAL ANALYSIS ROOM
115D	STORAGE
115E	WASHROOM
116	INMATE COMMITTEE ROOM
117	VESTIBULE
ST01	STAIR NO.1
ST02	STAIR NO.2
ST03	STAIR NO.3
B01	PSYCHOLOGY BOARDROOM
B02	PSYCHOLOGY OFFICE
B03	PSYCHOLOGY OFFICE
B04	PSYCHOLOGY CORRIDOR
B05	PSYCHOLOGY FILE ROOM
B07	PSYCHOLOGY OFFICE
B08	PSYCHOLOGY WAITING AREA
B09	MAIN CORRIDOR
B10	INDUCTION TRAINING OFFICE
B11	MECHANICAL / ELECTRICAL ROOM
B12	STAFF WASHROOM
B13	HEALTHCARE EXAMINATION ROOM
B13A	HEALTHCARE DISPENSARY
B13A1	HEALTHCARE SECURE ROOM
B14	ADMISSIONS AND DISCHARGE
B15	ELEVATOR MECHANICAL ROOM
ST01	BASEMENT STAIRS NORTH
ST02	BASEMENT STAIRS EAST



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titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC12-ACTIVITY BUILDING  
BASEMENT & FIRST FLOOR  
DEMOLITION LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conc par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

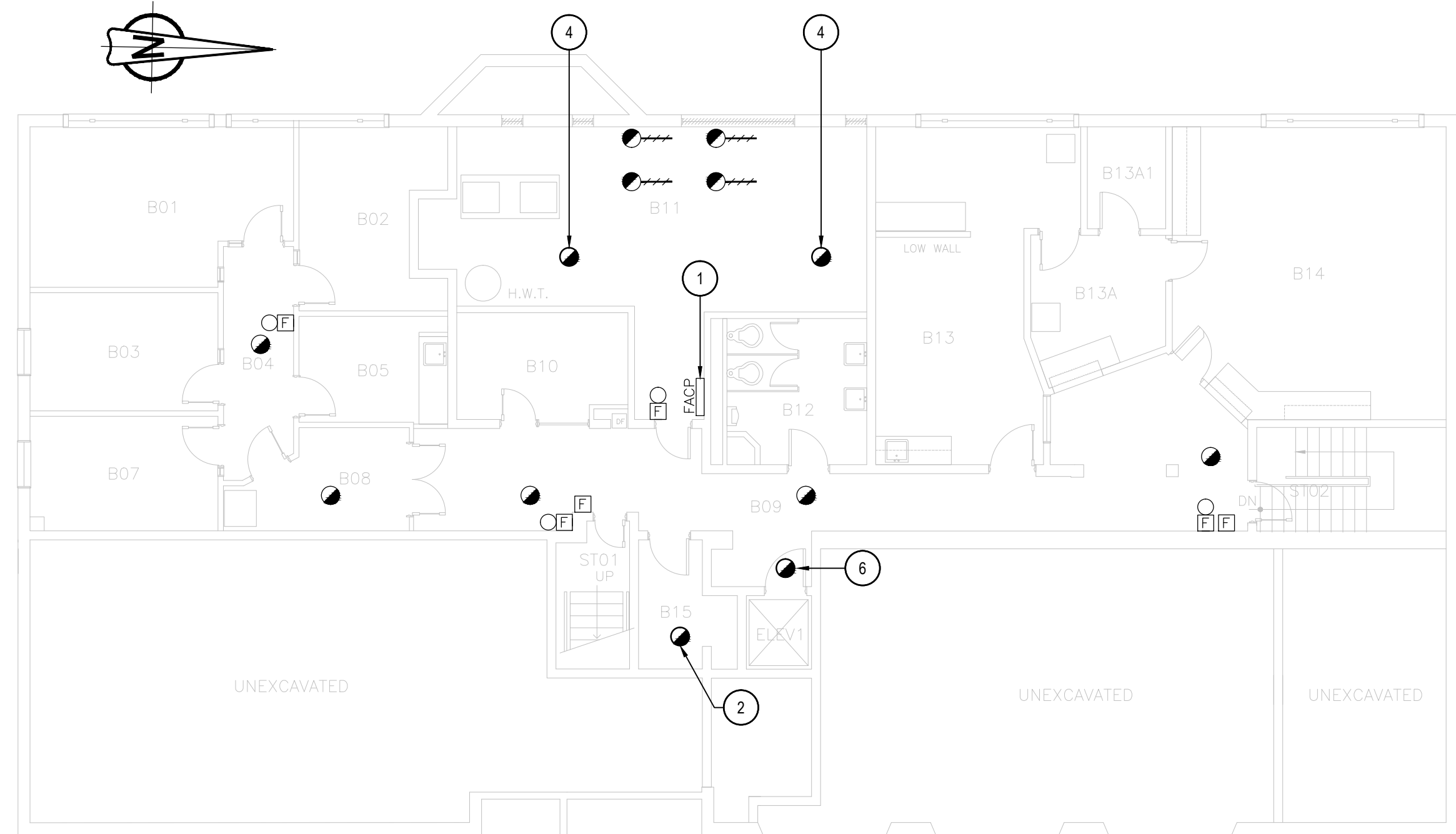
bid  
offre **G.G.** project manager  
administrateur de projets

project date  
date du projet **2018-01-19**

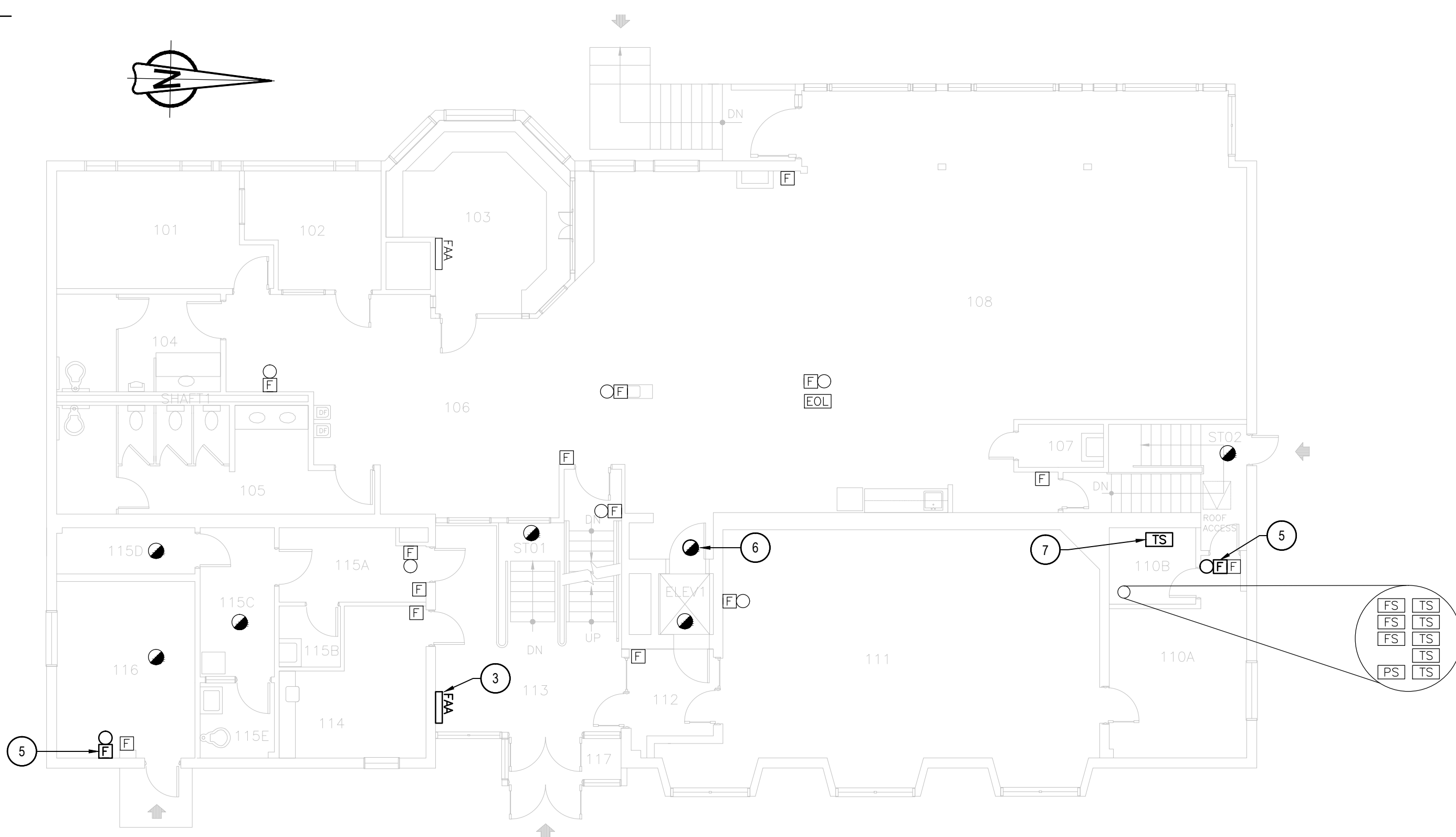
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no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC12\_E200**

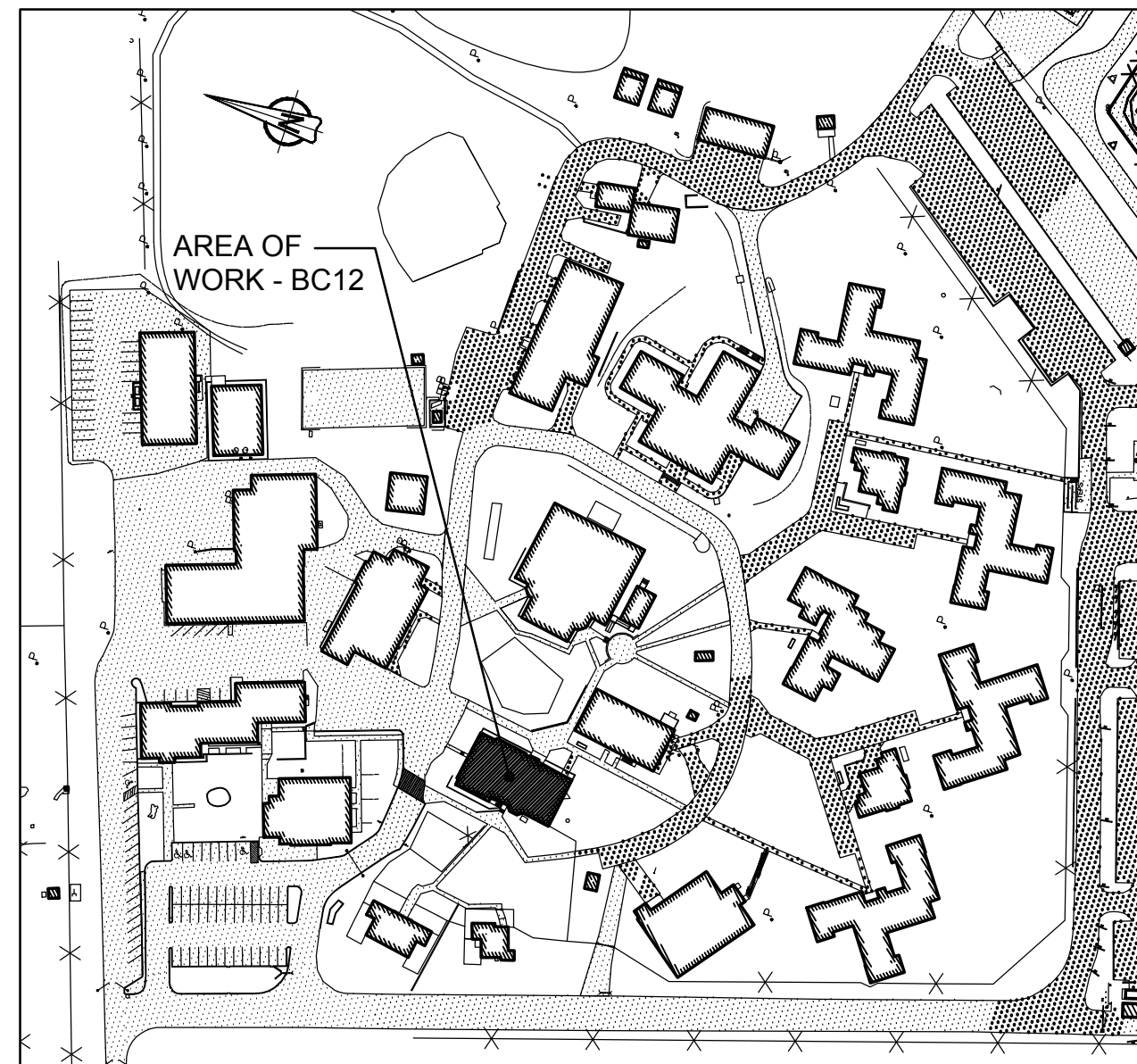




**2 BASEMENT FLOOR - NEW LAYOUT**  
SCALE: 1:100



**3 FIRST FLOOR - NEW LAYOUT**  
SCALE: 1:100



**1 KEY PLAN**  
**BUILDING BC12 - ACTIVITY BUILDING**  
SCALE: 1:2000

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### FIRE ALARM ZONE SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC12 DUTY OFFICE LOWER FLOOR
ZONE 2	BUILDING BC12 DUTY OFFICE UPPER FLOOR
ZONE 3	BUILDING BC12 DUTY OFFICE OLD SEG
ZONE 4	BUILDING BC12 DUTY OFFICE STAIR 01
ZONE 5	BUILDING BC12 DUTY OFFICE ELEVATOR SHAFT
ZONE 6	BUILDING BC12 DUTY OFFICE STAIR 02
ZONE 7	BUILDING BC12 DUTY OFFICE DUCT DETECTORS
ZONE 8	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER FLOW
ZONE 9	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER FLOW
ZONE 10	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 11	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER VALVE
ZONE 12	BUILDING BC12 DUTY OFFICE CHECK VALVE OUTLET
ZONE 13	BUILDING BC12 DUTY OFFICE MAIN INCOMING VALVE
ZONE 14	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER VALVE
ZONE 15	BUILDING BC12 DUTY OFFICE SPRINKLER LOW PRESSURE
ZONE 16	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER VALVE
ZONE 17	BUILDING BC12 BACKFLOW PREVENTER SHUT-OFF VALVE TAMPER

### DRAWING NOTES - NEW

- EXISTING MAIN FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 OF MINIMUM INSTITUTION TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES. SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED.
- PROVIDE A NEW ADDRESSABLE SMOKE DETECTOR IN ELEVATOR MACHINE ROOM. WIRE TO THE NEAREST EXISTING SMOKE DETECTOR CIRCUIT AND PROVIDE FIRE ALARM VERIFICATION REPORT.
- PROVIDE A NEW CHUBB EDWARDS EST3 REMOTE ANNUNCIATOR PANEL C/W DISPLAY MODULES AT ENTRANCE. WIRE TO EXISTING FIRE ALARM CONTROL PANEL IN BASEMENT, AND PROVIDE VERIFICATION REPORT.
- TYPICAL OF TWO (2): PROVIDE NEW ADDRESSABLE SMOKE DETECTOR AND WIRE TO EXISTING CIRCUIT. PROVIDE FIRE ALARM VERIFICATION REPORT.
- TYPICAL OF TWO (2): PROVIDE NEW FIRE ALARM BELL AS SHOWN AND WIRE TO EXISTING FIRE ALARM BELL CIRCUIT. PROVIDE FIRE ALARM VERIFICATION REPORT.
- TYPICAL OF TWO (2): PROVIDE NEW ADDRESSABLE SMOKE DETECTOR AT ELEVATOR LOBBY. WIRE TO THE NEAREST EXISTING SMOKE DETECTOR CIRCUIT.
- PROVIDE NEW TAMPER SWITCH FOR BACKFLOW PREVENTER IN WATER MAIN WHICH PROVIDES FIRE FLOWS TO THE SPRINKLER SYSTEM. MAKE FIRE ALARM CONNECTION BACK TO FIRE ALARM CONTROL PANEL AND PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT VALVE.

### ROOM INDEX

101	V & C OFFICE
102	OFFICE
103	DUTY OFFICE SEC/COMM EQUIPMENT ROOM
104	MEN'S WASHROOM
105	WOMEN'S WASHROOM / HANDICAPPED
106	QUIET AREA
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108	VISITS
110A	CHAPLAIN'S OFFICE
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ST03	STAIR NO.3
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B02	PSYCHOLOGY OFFICE
B03	PSYCHOLOGY OFFICE
B04	PSYCHOLOGY CORRIDOR
B05	PSYCHOLOGY FILE ROOM
B07	PSYCHOLOGY OFFICE
B08	PSYCHOLOGY WAITING AREA
B09	MAIN CORRIDOR
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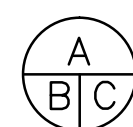
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03	ISSUED FOR 99% REVIEW	2017-07-14
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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31

revision date

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dessin no. - où détaillé

project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC12-ACTIVITY BUILDING  
BASEMENT & FIRST FLOOR**

**NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C./J.C./T.T.**

designed by  
conc par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur  
de projets

project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC12\_E201**



FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC12 DUTY OFFICE LOWER FLOOR
ZONE 2	BUILDING BC12 DUTY OFFICE UPPER FLOOR
ZONE 3	BUILDING BC12 DUTY OFFICE OLD SEG
ZONE 4	BUILDING BC12 DUTY OFFICE STAIR 01
ZONE 5	BUILDING BC12 DUTY OFFICE ELEVATOR SHAFT
ZONE 6	BUILDING BC12 DUTY OFFICE STAIR 02
ZONE 7	BUILDING BC12 DUTY OFFICE DUCT DETECTORS
ZONE 8	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER FLOW
ZONE 9	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER FLOW
ZONE 10	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER FLOW
ZONE 11	BUILDING BC05 FOOD SERVICES 1ST AND 2ND FLOORS
ZONE 12	BUILDING BC05 STORES FIRST FLOOR
ZONE 13	BUILDING BC05 STORES SECOND FLOOR
ZONE 14	BUILDING BC05 STORES SPRINKLER FLOW WET
ZONE 15	BUILDING BC05 STORES SPRINKLER FLOW DRY
ZONE 16	BUILDING BC39 COMMUNITY SERVICES
ZONE 17	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR B RANGE
ZONE 18	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR C RANGE
ZONE 19	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR A RANGE
ZONE 20	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR CENTER AREA
ZONE 21	BUILDING BC14 ACCOMODATION 1 2ND FLOOR B RANGE
ZONE 22	BUILDING BC14 ACCOMODATION 1 2ND FLOOR C RANGE
ZONE 23	BUILDING BC14 ACCOMODATION 1 2ND FLOOR A RANGE
ZONE 24	BUILDING BC14 ACCOMODATION 1 2ND FLOOR CENTER AREA
ZONE 25	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 011

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 26	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 003
ZONE 27	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 008
ZONE 28	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 001
ZONE 29	BUILDING BC14 ACCOMODATION 1 SPRINKLER FLOW 1 GROUND FLOOR
ZONE 30	BUILDING BC14 ACCOMODATION 1 SPRINKLER FLOW 2 2ND FLOOR
ZONE 31	BUILDING BC10 TERRY FOX GROUND FLOOR
ZONE 32	BUILDING BC10 TERRY FOX BASEMENT
ZONE 33 *	BUILDING BC10 TERRY FOX OVEN
ZONE 34 *	BUILDING BC10 TERRY FOX KITCHEN HOOD
ZONE 35	BUILDING BC03 A & D ALARM
ZONE 36	BUILDING BC13 S.I.S & HEALTH SERVICES ALARM
ZONE 37	BUILDING BC15 RECREATION GYM ALARM
ZONE 38	BUILDING BC16 ADMINISTRATION ALARM
ZONE 39	BUILDING BC18 ACCOMMODATION 4 ALARM
ZONE 40	BUILDING BC19 ACCOMMODATION 5 ALARM
ZONE 41	BUILDING BC20 NEIGHBOURHOOD 2 ALARM
ZONE 42	BUILDING BC23 NEIGHBOURHOOD 1 ALARM
ZONE 43	BUILDING BC24 ACCOMMODATION 3 ALARM
ZONE 44	BUILDING BC25 ACCOMMODATION 2 ALARM
ZONE 45	BUILDING BC40 FAMILTY VISITS A & B ALARM
ZONE 46	BUILDING BC41 PROGRAMS ALARM
ZONE 47	BUILDING BC43 WORKS ALARM
ZONE 48	BUILDING BC53 FAMILY VISITS C ALARM
ZONE 49	BUILDING BC59 (GO) ALARM
ZONE 50	BUILDING BC5 FOOD SERVICES & STORES ALARM

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 51	BUILDING BC10 TERRY FOX ALARM
ZONE 52	BUILDING BC12 DUTY OFFICE ALARM
ZONE 53	BUILDING BC14 ACCOMODATION 1 ALARM
ZONE 54	BUILDING BC55 FINANCE & PAROLE ALARM
ZONE 55	BUILDING BC39 COMMUNITY SERVICES ALARM
ZONE 56	FENBROOK FIRING RANGE ALARM
ZONE 57	BUILDING BC59 (GO) FIRST FLOOR
ZONE 58	BUILDING BC59 (GO) SECOND FLOOR
ZONE 59	BUILDING BC59 (GO) ELEVATOR SHAFT TOP & PIT
ZONE 60	BUILDING BC59 (GO) STAIRWELL A (CENTER)
ZONE 61	BUILDING BC59 (GO) STAIRWELL B (WEST SIDE)
ZONE 62	BUILDING BC59 (GO) STAIRWELL C (EAST SIDE)
ZONE 63	BUILDING BC59 (GO) FIRST FLOOR SPRINKLER FLOW
ZONE 64	BUILDING BC59 (GO) SECOND FLOOR SPRINKLER FLOW
ZONE 65	BUILDING BC59 (GO) FIRST FLOOR DUCT SMOKE
ZONE 66	BUILDING BC59 (GO) SECOND FLOOR DUCT SMOKE
ZONE 67	BUILDING BC59 (GO) MAIN SPRINKLER FLOW
ZONE 68	BUILDING BC59 (GO) ELEVATOR MACHINE CLOSET
ZONE 69	BUILDING BC55 FINANCE & PAROLE MAIN FLOOR
ZONE 70	BUILDING BC55 FINANCE & PAROLE MECHANICAL AND ELECTRICAL ROOM
ZONE 71	BUILDING BC55 FINANCE & PAROLE SPRINKLER FLOW
ZONE 72	BUILDING BC55 FINANCE & PAROLE SYSTEM EQUIPMENT ROOM
ZONE 73	BUILDING BC55 FINANCE & PAROLE SYSTEM EQUIPMENT ROOM PRE-RELEASE
ZONE 74	BUILDING BC55 FINANCE & PAROLE SYSTEM EQUIPMENT ROOM SUPPRESSION RELEASED

FIRE ALARM ZONE SCHEDULE	
SUPERVISORY SIGNALS	
ZONE 75	BUILDING BC12 DUTY OFFICE UPPER FLOOR WEST SPRINKLER VALVE
ZONE 76	BUILDING BC12 DUTY OFFICE CHECK VALVE OUTLET
ZONE 77	BUILDING BC12 DUTY OFFICE MAIN INCOMING VALVE
ZONE 78	BUILDING BC12 DUTY OFFICE UPPER FLOOR EAST SPRINKLER VALVE
ZONE 79	BUILDING BC12 DUTY OFFICE SPRINKLER LOW PRESSURE
ZONE 80	BUILDING BC12 DUTY OFFICE LOWER FLOOR SPRINKLER VALVE
ZONE 81	BUILDING BC05 STORES SPRINKLER LOW PRESSURE WET
ZONE 82	BUILDING BC05 STORES SPRINKLER VALVE WET
ZONE 83	BUILDING BC05 STORES FIRE HOSE CABINET VALVE BY ROOM E114
ZONE 84	BUILDING BC05 STORES FIRE HOSE CABINET VALVE EAST
ZONE 85	BUILDING BC05 STORES FIRE HOSE CABINET VALVE BY ROOM E101
ZONE 86	BUILDING BC05 STORES STANDPIPE VALVE
ZONE 87	BUILDING BC05 STORES SPRINKLER CHECK VALVE
ZONE 88	BUILDING BC05 STORES MAIN INCOMING VALVE
ZONE 89	BUILDING BC05 STORES SPRINKLER VALVE DRY
ZONE 90	BUILDING BC05 STORES SPRINKLER LOW PRESSURE DRY
ZONE 91	BUILDING BC14 ACCOMMODATION 1 MAIN SPRINKLER LOW PRESSURE 1
ZONE 92	BUILDING BC14 ACCOMMODATION 1 SV VALVE 1 GROUND FLOOR
ZONE 93	BUILDING BC14 ACCOMMODATION 1 MAIN INCOMING VALVE
ZONE 94	BUILDING BC14 ACCOMMODATION 1 SV VALVE 2 SECOND FLOOR
ZONE 95*	BUILDING BC10 TERRY FOX OVEN SPRINKLER VALVE
ZONE 96	BUILDING BC03 A & D TROUBLE
ZONE 97	BUILDING BC13 S.I.S. & HEALTH SERVICES TROUBLE
ZONE 98	BUILDING BC15 RECREATION GYM TROUBLE
ZONE 99	BUILDING BC16 ADMINISTRATION TROUBLE

FIRE ALARM ZONE SCHEDULE	
SUPERVISORY SIGNALS	
ZONE 100	BUILDING BC18 ACCOMMODATION 4 TROUBLE
ZONE 101	BUILDING BC19 ACCOMMODATION 5 TROUBLE
ZONE 102	BUILDING BC20 NEIGHBOURHOOD 2 TROUBLE
ZONE 103	BUILDING BC23 NEIGHBOURHOOD 1 TROUBLE
ZONE 104	BUILDING BC24 ACCOMMODATION 3 TROUBLE
ZONE 105	BUILDING BC25 ACCOMMODATION 2 TROUBLE
ZONE 106	BUILDING BC40 FAMILY VISITS A & B TROUBLE
ZONE 107	BUILDING BC41 PROGRAMS TROUBLE
ZONE 108	BUILDING BC43 WORKS TROUBLE
ZONE 109	BUILDING BC53 FAMILY VISITS C TROUBLE
ZONE 110	BUILDING BC59 (GO) TROUBLE
ZONE 111	BUILDING BC05 FOOD SERVICES AND STORES TROUBLE
ZONE 112	BUILDING BC10 TERRY FOX TROUBLE
ZONE 113	BUILDING BC12 DUTY OFFICE TROUBLE
ZONE 114	BUILDING BC14 ACCOMMODATION 1 TROUBLE
ZONE 115	BUILDING BC55 FINANCE AND PAROLE TROUBLE
ZONE 116	BUILDING BC39 COMMUNITY SERVICE TROUBLE
ZONE 117	FENBROOK FIRING RANGE TROUBLE
ZONE 118	BUILDING BC59 (GO) CHECK VALVE INLET
ZONE 119	BUILDING BC59 (GO) CHECK VALVE OUTLET
ZONE 120	BUILDING BC59 (GO) MAIN SPRINKLER VALVE
ZONE 121	BUILDING BC59 (GO) CHECK VALVE TEST HEADER VALVE
ZONE 122	BUILDING BC59 (GO) MAIN SPRINKLER LOW PRESSURE
ZONE 123	BUILDING BC59 (GO) FIRST FLOOR SPRINKLER VALVE
ZONE 124	BUILDING BC59 (GO) SECOND FLOOR SPRINKLER VALVE
ZONE 125	BUILDING BC55 FINANCE AND PAROLE CHECK VALVE INLET
ZONE 126	BUILDING BC55 FINANCE AND PAROLE CHECK VALVE OUTLET
ZONE 127	BUILDING BC55 FINANCE AND PAROLE MAIN SPRINKLER VALVE
ZONE 128	BUILDING BC55 FINANCE AND PAROLE BOOSTER POWER SUPPLY TROUBLE

\* FIRE ALARM ZONES AND SUPERVISORY SIGNAL TO BE REMOVED FROM DISPLAY.



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Gravenhurst

Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE — PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC12—ACTIVITY BUILDING MAIN  
CONTROL PANEL FIRE ALARM  
ZONE SCHEDULE — EXISTING

drawn by  
dessiné par

D. GINGRAS/J.L.C/J.C/T.T

designed by  
conc par

MIKE XU

approved by  
approuvé par

JEFFREY DUBEAU

bid  
offre

G.G.

project manager  
administrateur  
de projets

project date  
date du projet

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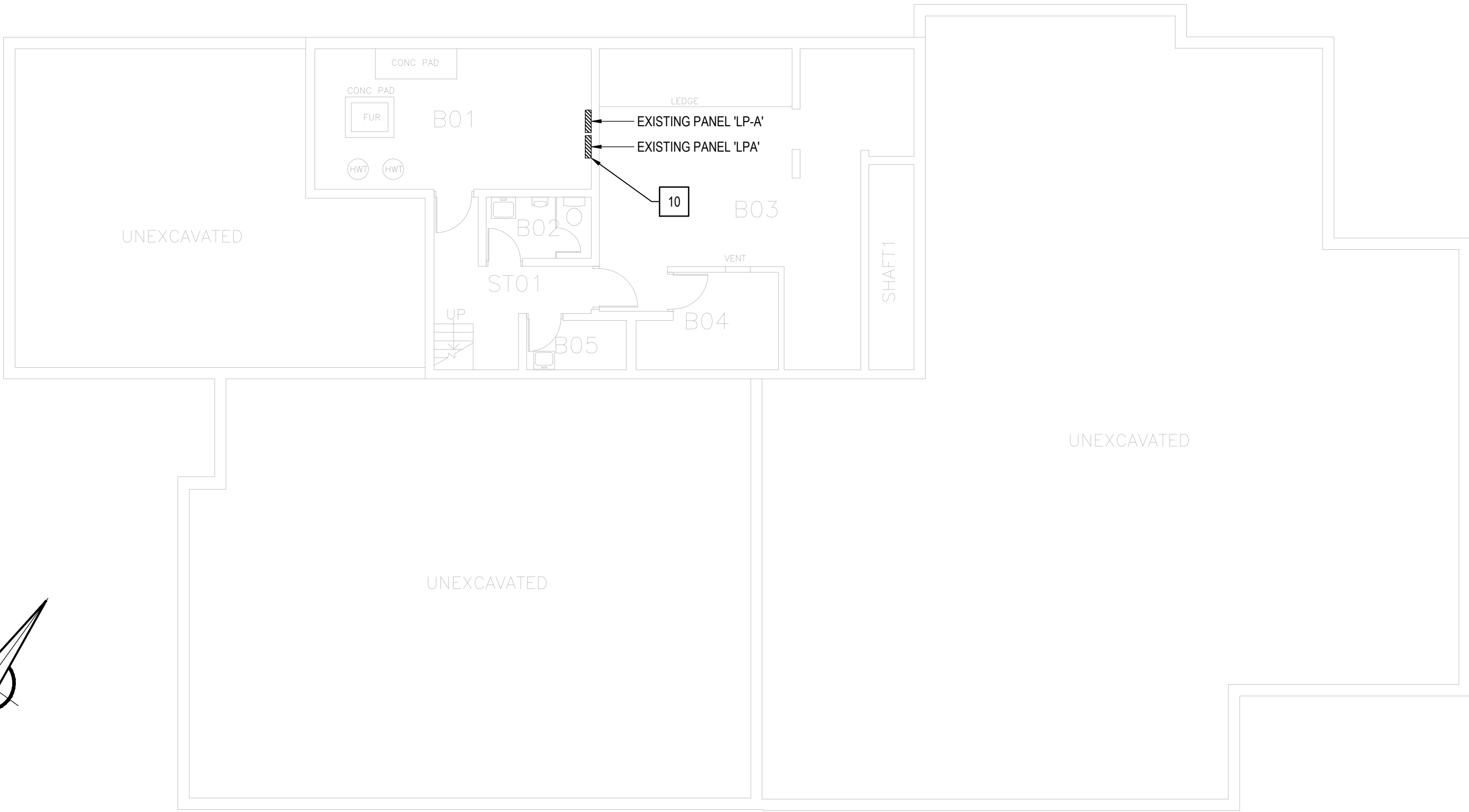
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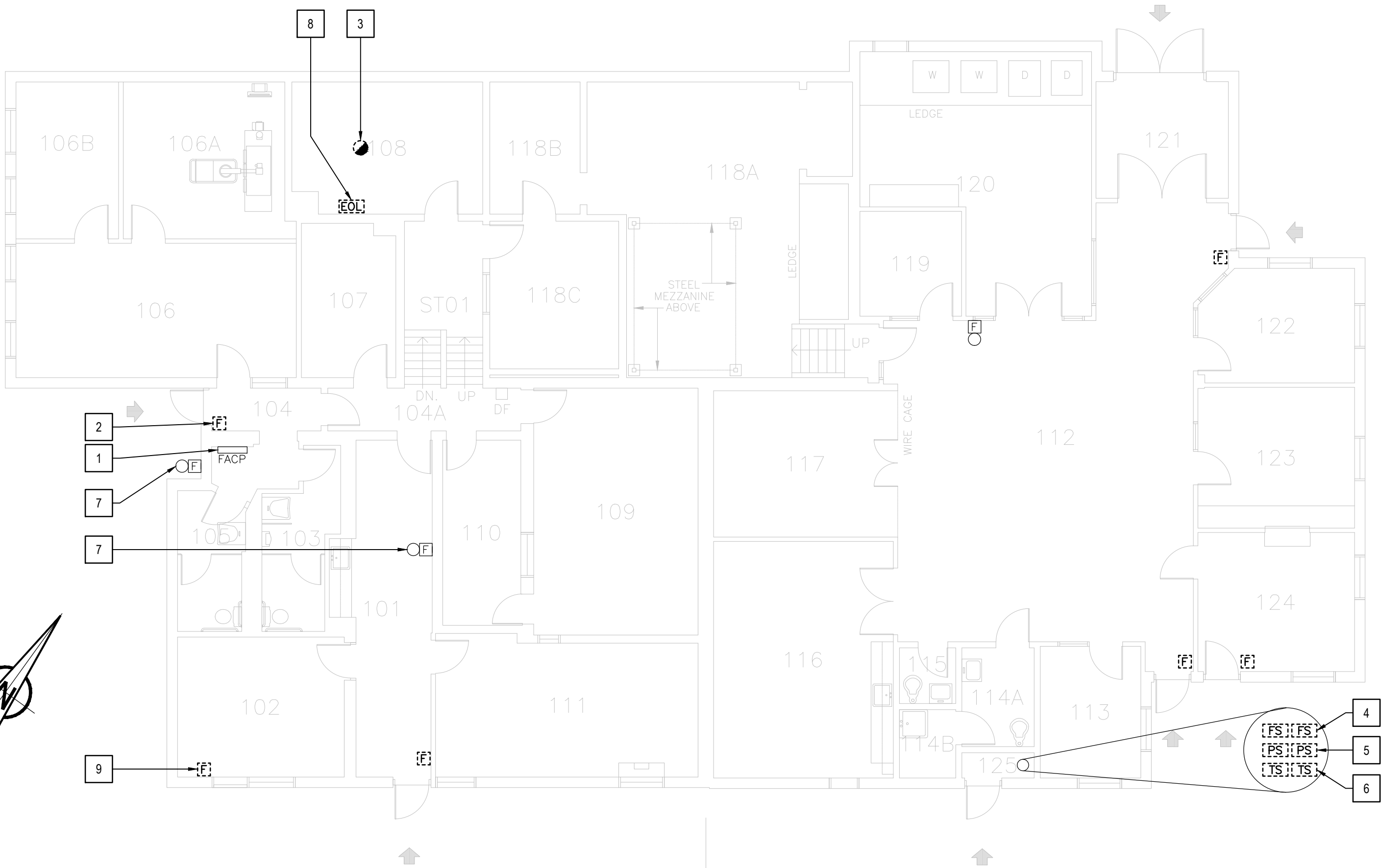
drawing no.  
dessiné no.

BC12\_E202





2 BASEMENT - EXISTING LAYOUT  
SCALE: 1:100



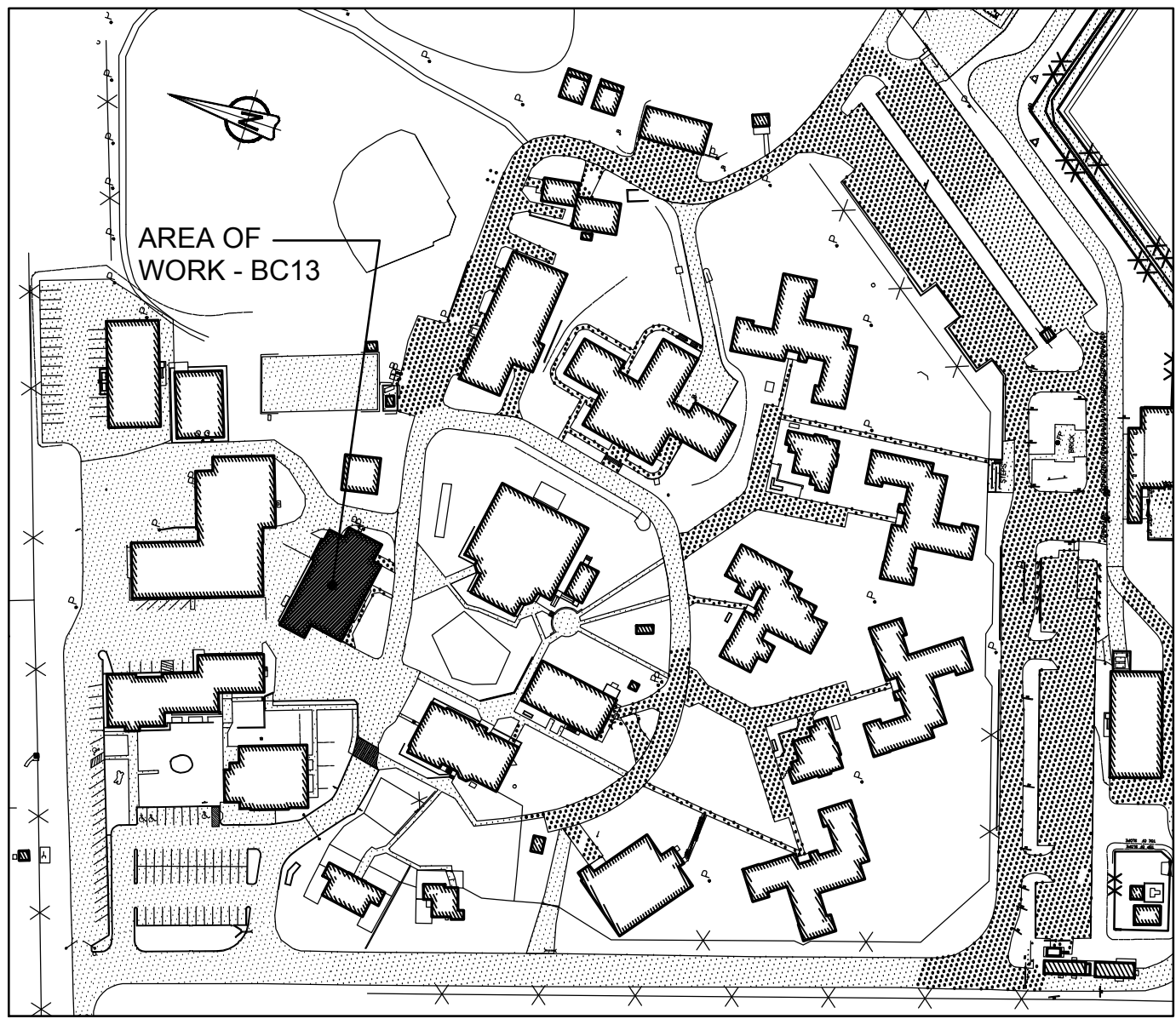
3 FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100

ROOM INDEX	
101	CORRIDOR
102	OFFICE
103	MEN'S WASHROOM / HANDICAPPED
104	CORRIDOR
104A	CORRIDOR
105	WOMEN'S WASHROOM
106	MULTI-PURPOSE OFFICE
106A	X-RAY ROOM
106B	OPTOMETRIST OFFICE
107	STORAGE
108	LAN ROOM
109	COMPUTER TRAINING
110	BREAK-OUT ROOM
111	INFORMATICS WORK SHOP
112	GENERAL AREA
113	OFFICE
114A	MEN'S WASHROOM
114B	JANITOR'S ROOM
115	WOMEN'S WASHROOM
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119	OFFICE
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122	OFFICE
123	ISSUE
124	DISTRIBUTION
125	SPRINKLER ROOM
B01	MECHANICAL / ELECTRICAL ROOM
B02	WASHROOM
B03	STORAGE
B04	STORAGE
B05	JANITOR'S ROOM
ST01	STAIR NO.1

GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, SPRINKLERED BUILDING. REMOVE EXISTING WIRES FOR ANCLLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF FIVE (5) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
3	EXISTING FIRE ALARM SMOKE DETECTOR TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
4	TYPICAL OF TWO (2) EXISTING SPRINKLER FLOW SWITCH. REMOVE EXISTING MONITOR MODULE FOR SPRINKLER FLOW SWITCH.
5	TYPICAL OF TWO (2) EXISTING SPRINKLER PRESSURE SWITCH. REMOVE EXISTING MONITOR MODULE FOR SPRINKLER PRESSURE SWITCH.
6	TYPICAL OF TWO (2) EXISTING SPRINKLER TAMPER SWITCH. REMOVE EXISTING MONITOR MODULE FOR SPRINKLER TAMPER SWITCH.
7	TYPICAL OF THREE (3) EXISTING FIRE ALARM BELL TO REMAIN.
8	EXISTING END OF LINE RESISTOR TO BE REMOVED.
9	EXISTING FA PULL STATION TO BE REMOVED. REMOVE WIRES FROM EXISTING CIRCUIT AND PROVIDE BLANK COVER PLATE TO EXISTING BACKBOX.
10	REMOVE EXISTING SPARE 2-POLE BREAKER, LPA CCT #80/82

EXISTING FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC13 HEALTHCARE
ZONE 2	BUILDING BC13 COMMUNICATION ROOM
ZONE 3	BUILDING BC13 S.I.S.
ZONE 4	BUILDING BC13 SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 5	BUILDING BC13 SPRINKLER LOW PRESSURE
ZONE 6	BUILDING BC13 SPRINKLER TAMPER



1 KEY PLAN  
BUILDING BC13 - HEALTH SERVICES AND S.I.S. BUILDING  
SCALE: 1:2000



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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC13 - HEALTH SERVICES AND S.I.S. BASEMENT & FIRST FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC13_E200	



## GENERAL NOTES

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2. CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3. ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4. REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5. TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

## ROOM INDEX

101	CORRIDOR
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B04	STORAGE
B05	JANITOR'S ROOM
ST01	STAIR NO.1

## DRAWING NOTES - NEW

1. EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, SPRINKLERED BUILDING. INSTALL FIBRE OPTIC INTERFACE CARD INSIDE EXISTING FIRE ALARM CONTROL PANEL. INSTALL FIBER OPTIC CABLE AND WIRE TO THE FIRE ALARM CONTROL PANEL. PROVIDE VERIFICATION REPORT.
2. TYPICAL OF SIX (6) NEW ADDRESSABLE FIRE ALARM PULL STATION AT A.F.F 1150mm. WIRE BACK TO EXISTING CIRCUIT. EXTEND WIRES AND CONDUIT TO SUIT NEW LOCATION AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
3. NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AT ORIGINAL LOCATION. WIRE BACK TO EXISTING CIRCUIT AND PROVIDE VERIFICATION REPORT.
4. TYPICAL OF TWO (2) EXISTING SPRINKLER FLOW SWITCH. PROVIDE NEW ADDRESSABLE MONITOR MODULE FOR SPRINKLER FLOW SWITCH.
5. TYPICAL OF TWO (2) EXISTING SPRINKLER PRESSURE SWITCH. PROVIDE NEW ADDRESSABLE MONITOR MODULE FOR SPRINKLER PRESSURE SWITCH.
6. TYPICAL OF TWO (2) EXISTING SPRINKLER TAMPER SWITCH. PROVIDE NEW ADDRESSABLE MONITOR MODULE FOR SPRINKLER TAMPER SWITCH.
7. TYPICAL OF THREE (3) EXISTING FIRE ALARM BELL TO REMAIN.
8. PROVIDE NEW END OF LINE RESISTOR.
9. PROVIDE NEW ADDRESSABLE HEAT DETECTOR AND WIRE TO EXISTING FIRE ALARM CIRCUIT.
10. PROVIDE NEW ADDRESSABLE SMOKE DETECTOR AND WIRE TO EXISTING FIRE ALARM CIRCUIT.
11. PROVIDE 50/125 MULTI-MODE OPTICAL-FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FA CONTROL PANEL VIA EXISTING UNDERGROUND CONDUIT AND MAKE CONNECTION. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL-FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NETWORK CONNECTIONS AND NUMBER OF CABLE RUNS.
12. TYPICAL OF SEVEN (7) PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING AND WIRE TO EXISTING FIRE ALARM BELL CIRCUIT. PROVIDE VERIFICATION REPORT.
13. PROVIDE NEW ADDRESSABLE FIRE ALARM PULL STATION AFF. 1150MM AT LOCATION AS SHOWN. WIRE TO EXISTING FIRE PULL STATION CIRCUIT AND PROVIDE VERIFICATION REPORT.
14. RE-PROGRAM AND UPDATE FA CONTROL PANEL PER NEW FA ZONE SCHEDULE. UPDATE FA ZONE LABELS AT THE PANEL. PROVIDE FAULT ISOLATION MODULES AT NEW FA ZONES PER CODE.
15. RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.
16. PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR MAIN SUPPLY FAN FIRE ALARM SHUTDOWN. WIRE TO SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.
17. PROVIDE CONTACTOR FOR MAIN SUPPLY FAN CIRCUIT NUMBER LP-A #39/41, 30A, 2P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
18. PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'LPA' FOR TRANSFORMER 120V INPUT CIRCUIT, CIRCUIT NUMBER LPA#60.



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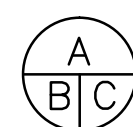


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UPGRADE - PHASE II

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BC13 - HEALTH SERVICES  
AND S.I.S.  
BASEMENT & FIRST FLOOR  
NEW LAYOUT

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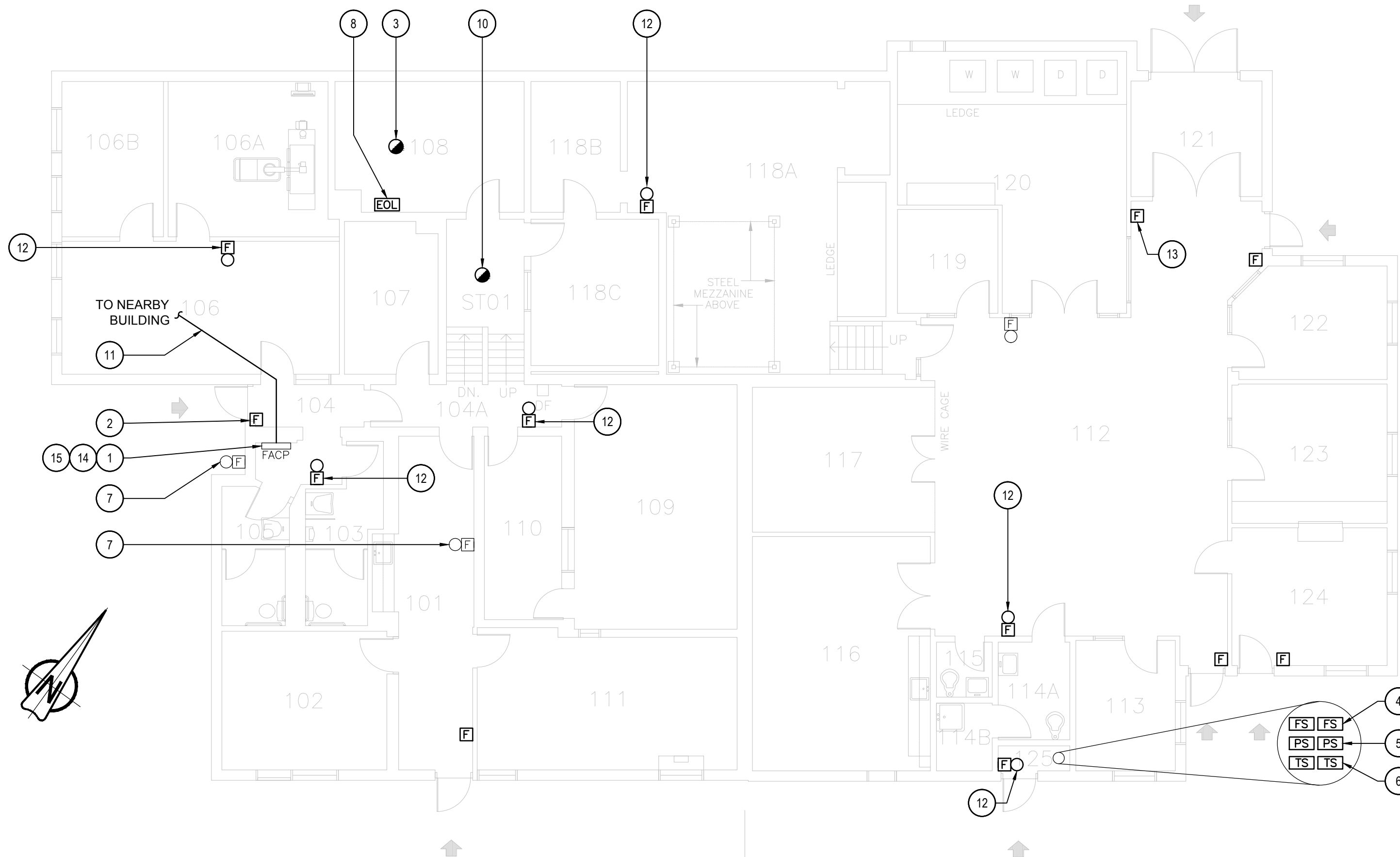
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dessiné no. BC13\_E201

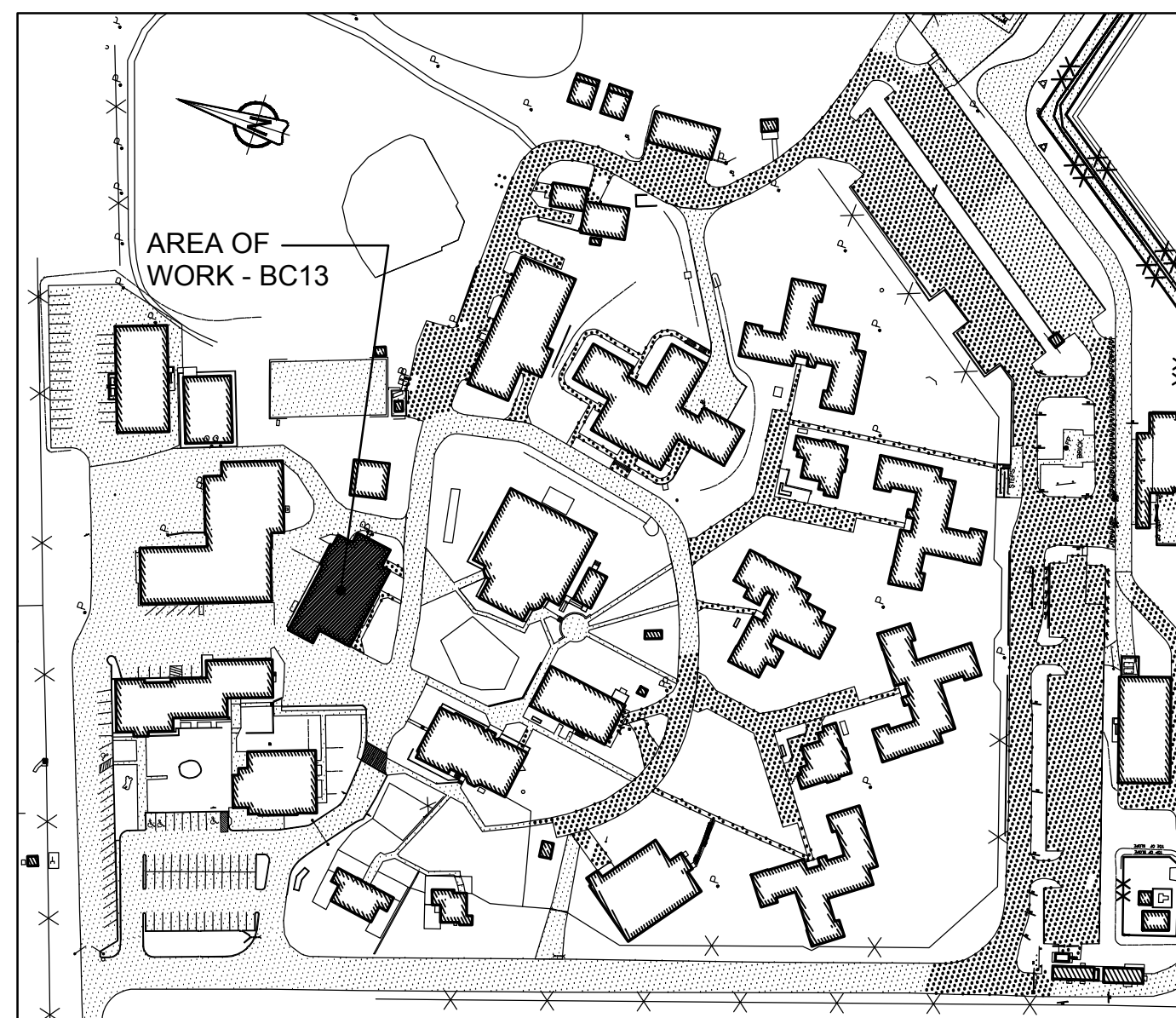
## 2 BASEMENT - NEW LAYOUT

SCALE: 1:100



## 3 FIRST FLOOR - NEW LAYOUT

SCALE: 1:100

1 KEY PLAN  
BUILDING BC13 - HEALTH SERVICES AND S.I.S. BUILDING

SCALE: 1:2000

NEW ALARM ZONE  
SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC13 HEALTHCARE
ZONE 2	BUILDING BC13 COMMUNICATION ROOM
ZONE 3	BUILDING BC13 S.I.S.
ZONE 4	BUILDING BC13 SPRINKLER FLOW
ZONE 5	BUILDING BC13 ATTIC DRY SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 6	BUILDING BC13 SPRINKLER LOW PRESSURE
ZONE 7	BUILDING BC13 SPRINKLER TAMPER
ZONE 8	BUILDING BC13 ATTIC DRY SPRINKLER LOW PRESSURE
ZONE 9	BUILDING BC13 ATTIC DRY SPRINKLER TAMPER



GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP C, DIVISION 1 OCCUPANCIES, SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED.
- EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL TO REMAIN.
- TYPICAL OF TWENTY SEVEN (27) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE CELLS AND IN THE HALLWAY IN FRONT OF INMATE CELL. TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
- TYPICAL OF FIVE (5) EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF NINE (9) EXISTING FIRE ALARM BELL TO REMAIN

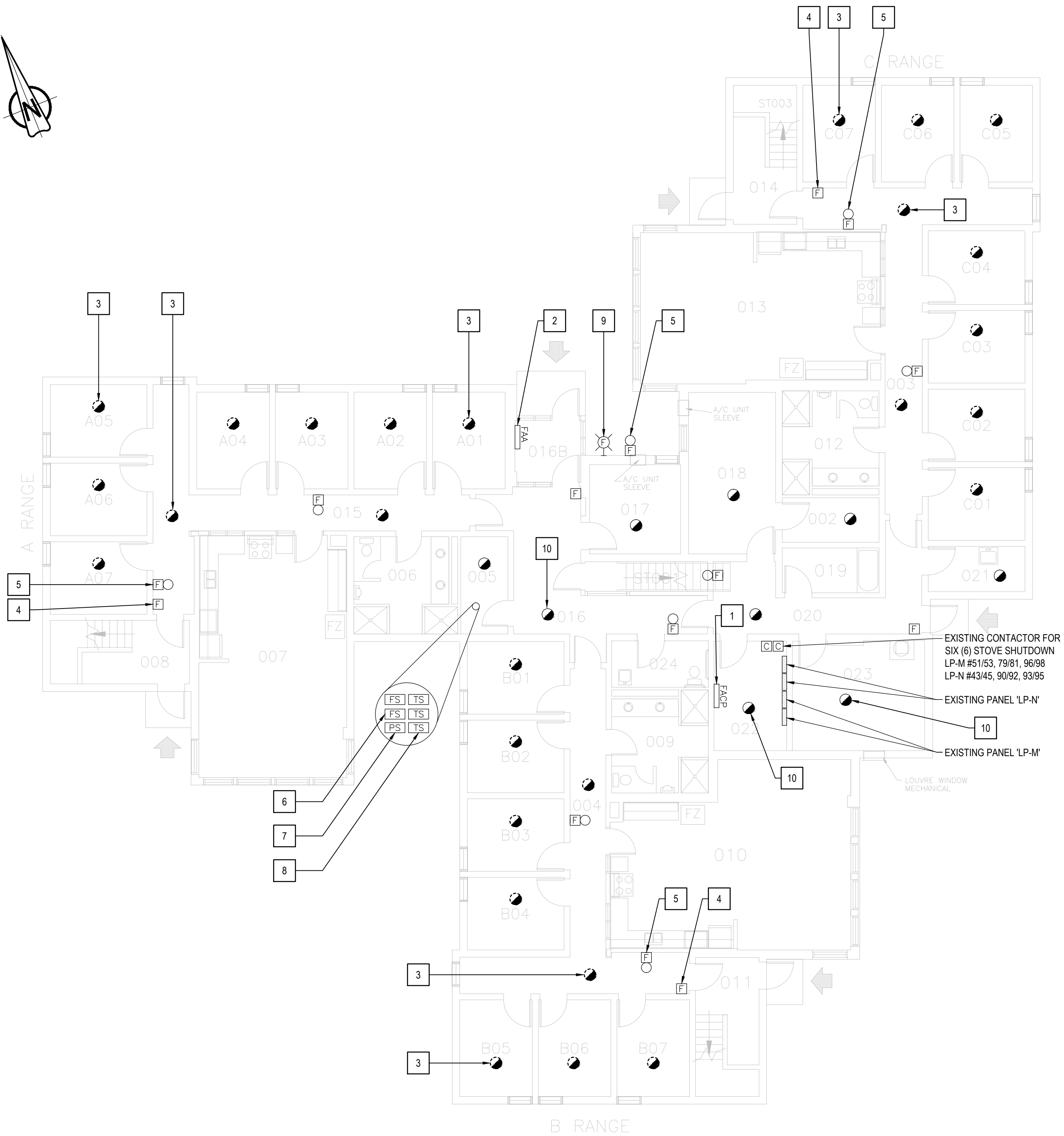
- TYPICAL OF TWO (2) EXISTING SPRINKLER FLOW SWITCH FIRE ALARM MONITOR MODULE TO REMAIN.
- EXISTING SPRINKLER PRESSURE SWITCH FIRE ALARM MONITOR MODULE TO REMAIN.
- TYPICAL OF THREE (3) EXISTING SPRINKLER TAMPER SWITCH ALARM MONITOR MODULE TO REMAIN.
- EXISTING FIRE ALARM STROBE TO REMAIN.
- TYPICAL OF NINE (9) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.

ROOM INDEX

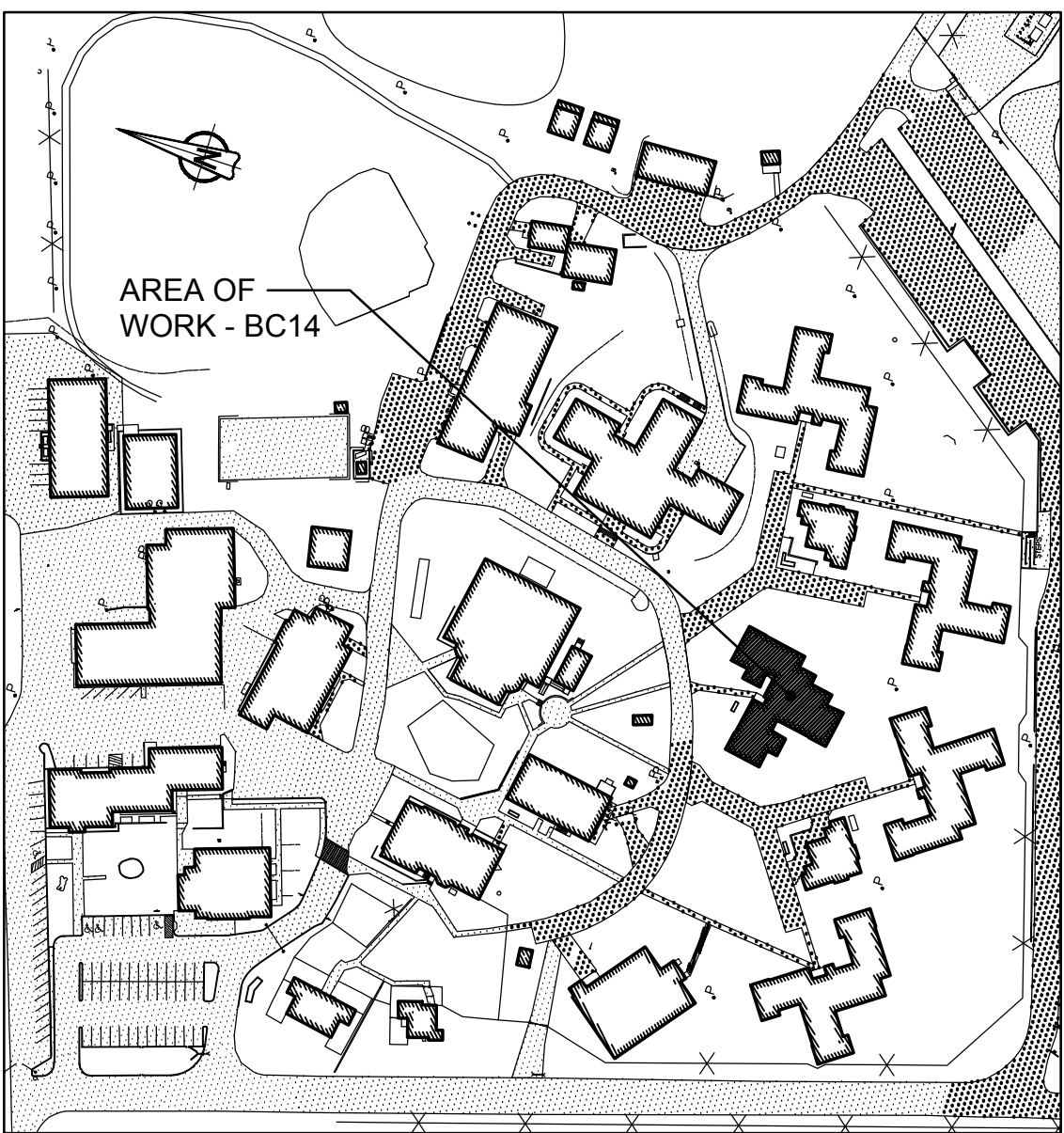
002	STORAGE
003	CORRIDOR
004	CORRIDOR
004	SPRINKLER ROOM
005	A RANGE WASHROOM
007	A RANGE COMMON ROOM
008	A RANGE STAIR
009	B RANGE WASHROOM
010	B RANGE COMMON ROOM
011	B RANGE STAIR
012	C RANGE WASHROOM
013	C RANGE COMMON ROOM
014	C RANGE STAIR
015	CORRIDOR
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017	CASE MANAGEMENT OFFICE
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A03	INMATE ROOM
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A05	INMATE ROOM
A06	INMATE ROOM
A07	INMATE ROOM
B01	INMATE ROOM
B02	INMATE ROOM
B03	INMATE ROOM
B04	INMATE ROOM
B05	INMATE ROOM
B06	INMATE ROOM
B07	INMATE ROOM
C01	INMATE ROOM
C02	INMATE ROOM
C03	INMATE ROOM
C04	INMATE ROOM
C05	INMATE ROOM
C06	INMATE ROOM
C07	INMATE ROOM
ST001	STAIR NO.1

FIRE ALARM ZONE SCHEDULE

ALARM SIGNALS	
ZONE 1	BUILDING BC14 GROUND FLOOR B RANGE
ZONE 2	BUILDING BC14 GROUND FLOOR C RANGE
ZONE 3	BUILDING BC14 GROUND FLOOR A RANGE
ZONE 4	BUILDING BC14 GROUND FLOOR CENTER
ZONE 5	BUILDING BC14 2ND FLOOR B RANGE
ZONE 6	BUILDING BC14 2ND FLOOR C RANGE
ZONE 7	BUILDING BC14 2ND FLOOR A RANGE
ZONE 8	BUILDING BC14 2ND FLOOR CENTRAL
ZONE 9	BUILDING BC14 2ND FLOOR STAIR 011
ZONE 10	BUILDING BC14 2ND FLOOR STAIR 003
ZONE 11	BUILDING BC14 2ND FLOOR STAIR 008
ZONE 12	BUILDING BC14 2ND FLOOR STAIR 001
ZONE 13	BUILDING BC14 SPRINKLER FLOW 1 GROUND FLOOR
ZONE 14	BUILDING BC14 SPRINKLER FLOW 2 2ND FLOOR
SUPERVISORY SIGNALS	
ZONE 15	BUILDING BC14 MAIN SPRINKLER LOW PRESSURE 1
ZONE 16	BUILDING BC14 SV VALVE 1 GROUND FLOOR
ZONE 17	BUILDING BC14 MAIN INCOMING VALVE
ZONE 18	BUILDING BC14 SV VALVE 2 2ND FLOOR



2 FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC14 - ACCOMMODATION UNITS #1  
SCALE: 1:2000



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05	ISSUED FOR TENDER & PERMIT	2018-01-19
04	ISSUED FOR 100% REVIEW	2017-11-16
03	ISSUED FOR 99% REVIEW	2017-07-14
02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

Do not scale drawings.  
Verify all dimensions and conditions on site and immediately  
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A	Detail No.
B	No. du détail
C	drawing no. - where detail required dessin no. - où détail exigé
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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC14 - ACCOMMODATION UNIT #1 FIRST FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC14_E200	

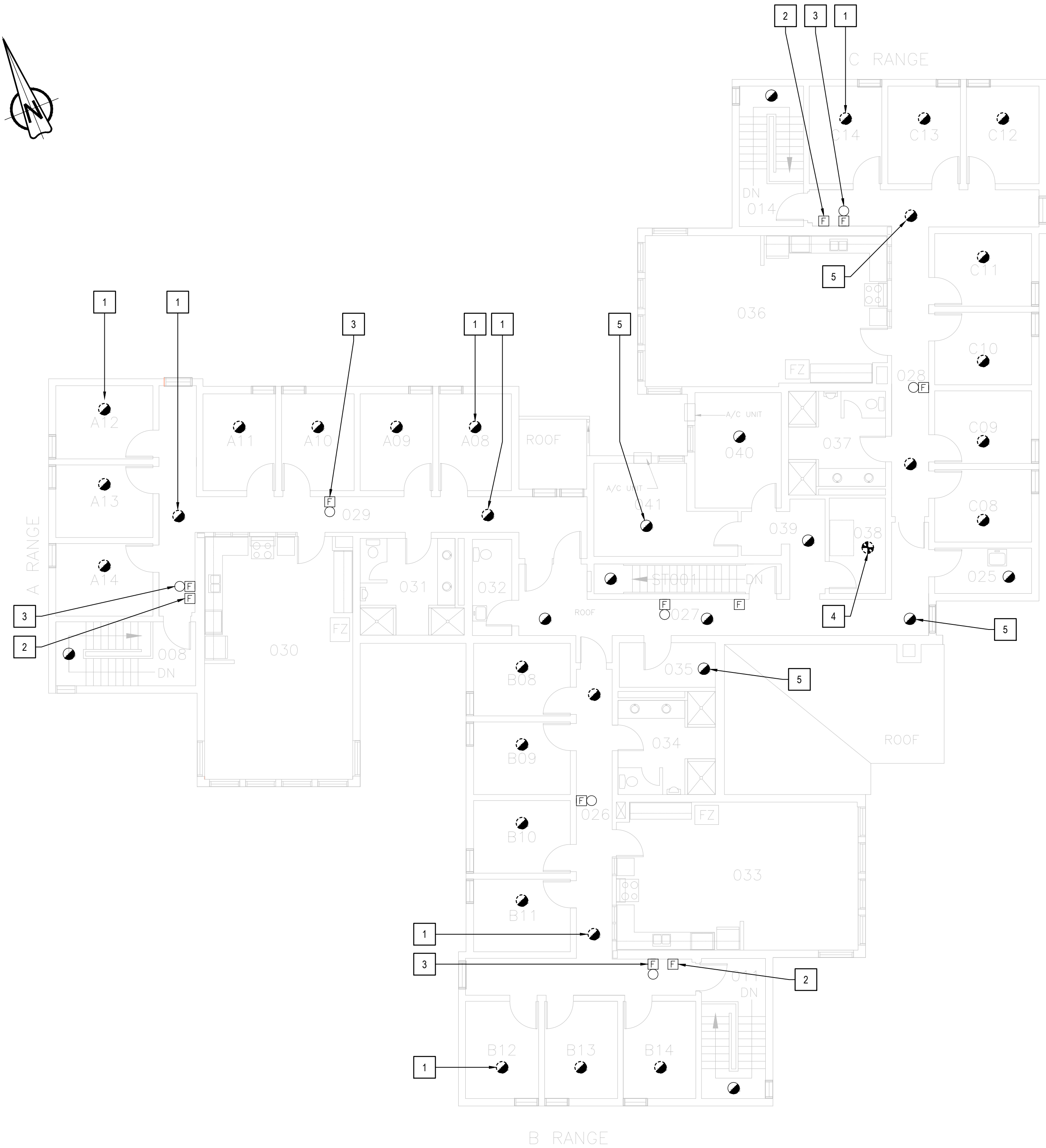


GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

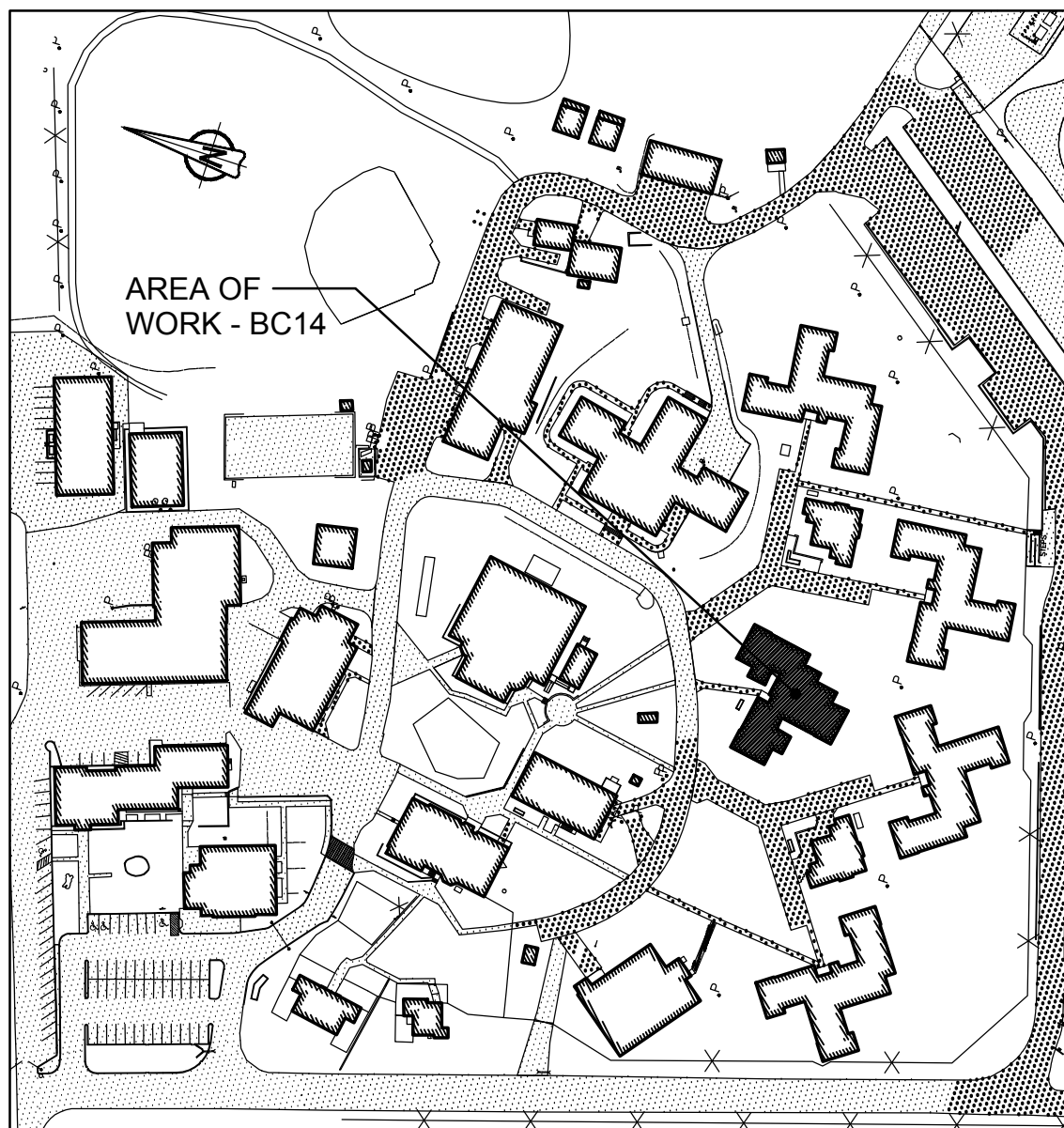
DRAWING NOTES - DEMOLITION	
1	TYPICAL OF TWENTY SEVEN (27) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE CELLS AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
2	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3	TYPICAL OF SEVEN (7) EXISTING FIRE ALARM BELL TO REMAIN
4	EXISTING HEAT DETECTOR TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.
5	TYPICAL OF TWELVE (12) EXISTING FIRE ALARM SMOKE DETECTOR LOCATED OUTSIDE INMATE SLEEPING AREA AREA TO REMAIN.

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008	A RANGE STAIR
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014	C RANGE STAIR
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029	CORRIDOR
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A13	INMATE ROOM
A14	INMATE ROOM
A15	INMATE ROOM
A16	INMATE ROOM
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B14	INMATE ROOM
B15	INMATE ROOM
B16	INMATE ROOM
C08	INMATE ROOM
C09	INMATE ROOM
C10	INMATE ROOM
C11	INMATE ROOM
C12	INMATE ROOM
C13	INMATE ROOM
C14	INMATE ROOM
ST001	STAIR NO.1

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC14 GROUND FLOOR B RANGE
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ZONE 17	BUILDING BC14 MAIN INCOMING VALVE
ZONE 18	BUILDING BC14 SV VALVE 2 2ND FLOOR



2 SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC14 - ACCOMMODATION UNITS #1  
SCALE: 1:2000



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03	ISSUED FOR 99% REVIEW	2017-07-14
02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

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C	drawing no. - where detailed dessin no. - où détaillé

project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC14 - ACCOMMODATION UNIT #1 SECOND FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC14_E201	



### GENERAL NOTES

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- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

### DRAWING NOTES - NEW

- EXISTING FA CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP C, DIVISION 1 OCCUPANCIES, SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED. PROVIDE FA VERIFICATION REPORT AFTER INSTALLATION
- TYPICAL OF TWENTY SEVEN (27) PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (9 BASES/CIRCUIT). RUN #16 AWG WIRING C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- TYPICAL OF TWENTY SEVEN (27) EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- TYPICAL OF TWO (2) PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS #BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FIRE ALARM CONTROL PANEL POWER SOURCE. FOUR (4) CIRCUITS PER BOOSTER.

### DRAWING NOTES - NEW

- PROVIDE SIX (6) NEW ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL AT BUILDING BC14 UP TO FIRE ALARM CONTROL PANEL AT BUILDING NEARBY, VIA EXISTING UNDERGROUND CONDUIT, AND MAKE CONNECTION. REFER TO BC00\_E100 FOR UNDERGROUND FIBER OPTIC CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTION.

### ROOM INDEX

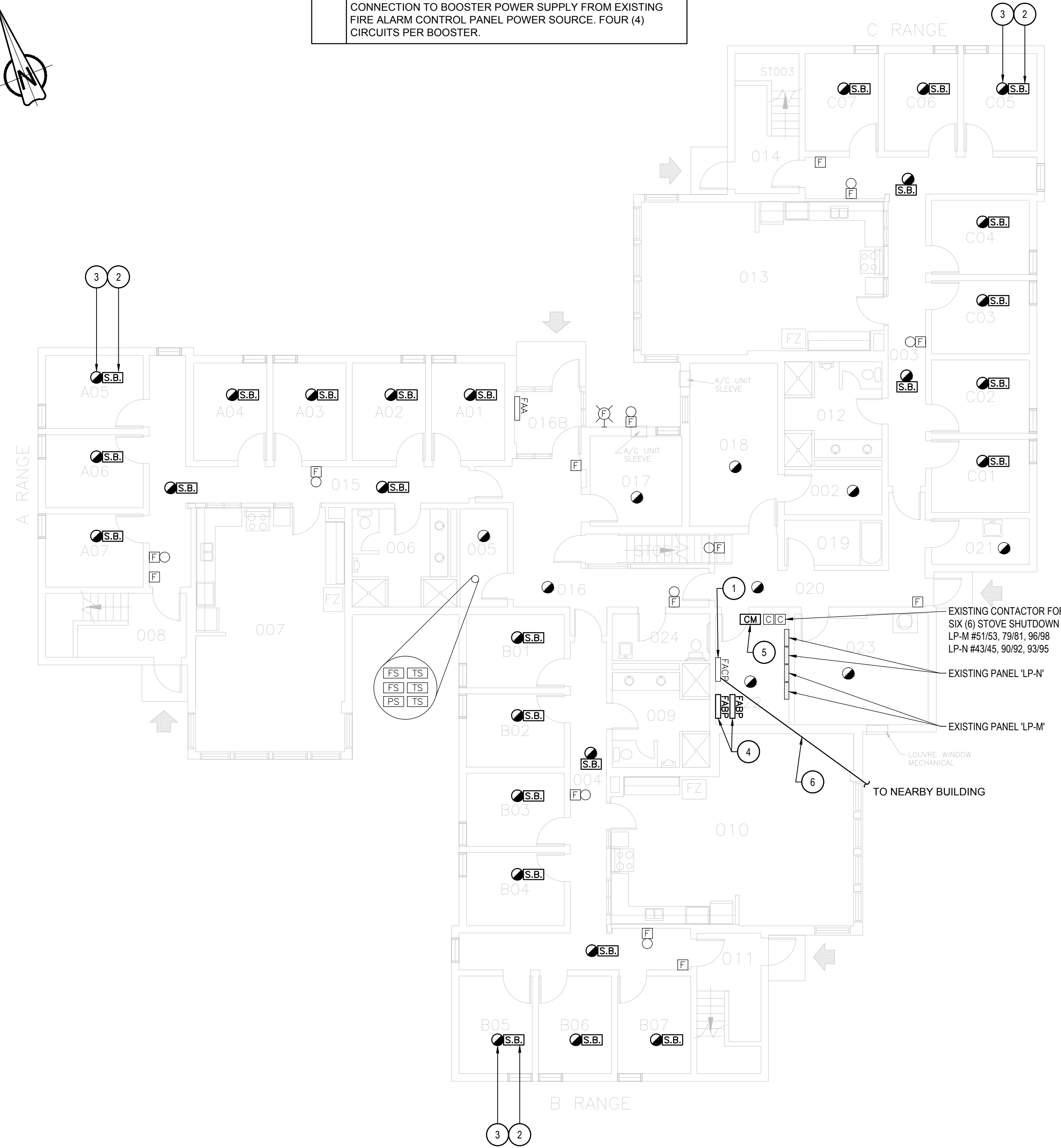
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C04	INMATE ROOM
C05	INMATE ROOM
C06	INMATE ROOM
C07	INMATE ROOM
ST001	STAIR NO.1

### FIRE ALARM ZONE SCHEDULE

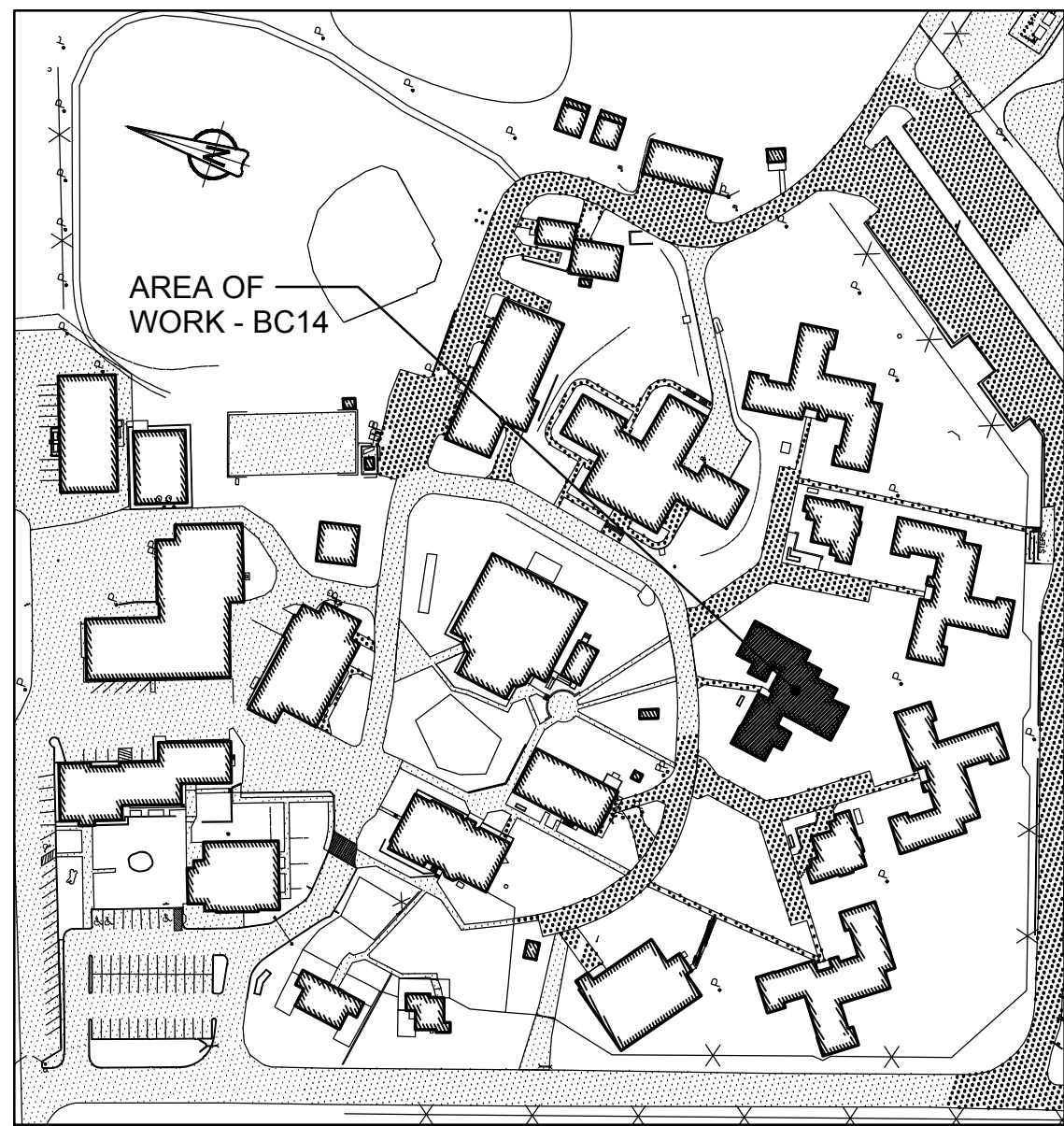
ALARM SIGNALS	
ZONE 1	BUILDING BC14 GROUND FLOOR B RANGE
ZONE 2	BUILDING BC14 GROUND FLOOR C RANGE
ZONE 3	BUILDING BC14 GROUND FLOOR A RANGE
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ZONE 15	BUILDING BC14 MAIN SPRINKLER LOW PRESSURE 1
ZONE 16	BUILDING BC14 SV VALVE 1 GROUND FLOOR
ZONE 17	BUILDING BC14 MAIN INCOMING VALVE
ZONE 18	BUILDING BC14 SV VALVE 2 2ND FLOOR

### SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.



2 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC14 - ACCOMMODATION UNITS #1  
SCALE: 1:2000



05	ISSUED FOR TENDER & PERMIT	2018-01-19
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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31

revision date

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project title titre du projet	Gravenhurst Ontario
BEAVER CREEK INSTITUTION	
FIRE ALARM SYSTEM UPGRADE - PHASE II	
drawing title titre du dessin	FIRE ALARM BC14 - ACCOMMODATION UNIT #1 FIRST FLOOR NEW LAYOUT
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T
designed by conc par	MIKE XU
approved by approuvé par	JEFFREY DUBEAU
bid offre	G.G. project manager administrateur de projets
project date date du projet	2018-01-19
project no. no. du projet	R.080201.001
drawing no. dessiné no.	BC14_E202



GENERAL NOTES

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DRAWING NOTES - NEW

- TYPICAL OF TWENTY SEVEN (27). PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- TYPICAL OF TWENTY SEVEN (27). EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- PROVIDE NEW SMOKE DETECTOR AT EXISTING DETECTOR LOCATION. WIRE TO EXISTING CIRCUIT.

ROOM INDEX

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A16	INMATE ROOM
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B14	INMATE ROOM
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FIRE ALARM ZONE SCHEDULE

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SEQUENCE OF ACTIVATION OF  
FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
- RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.



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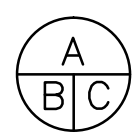


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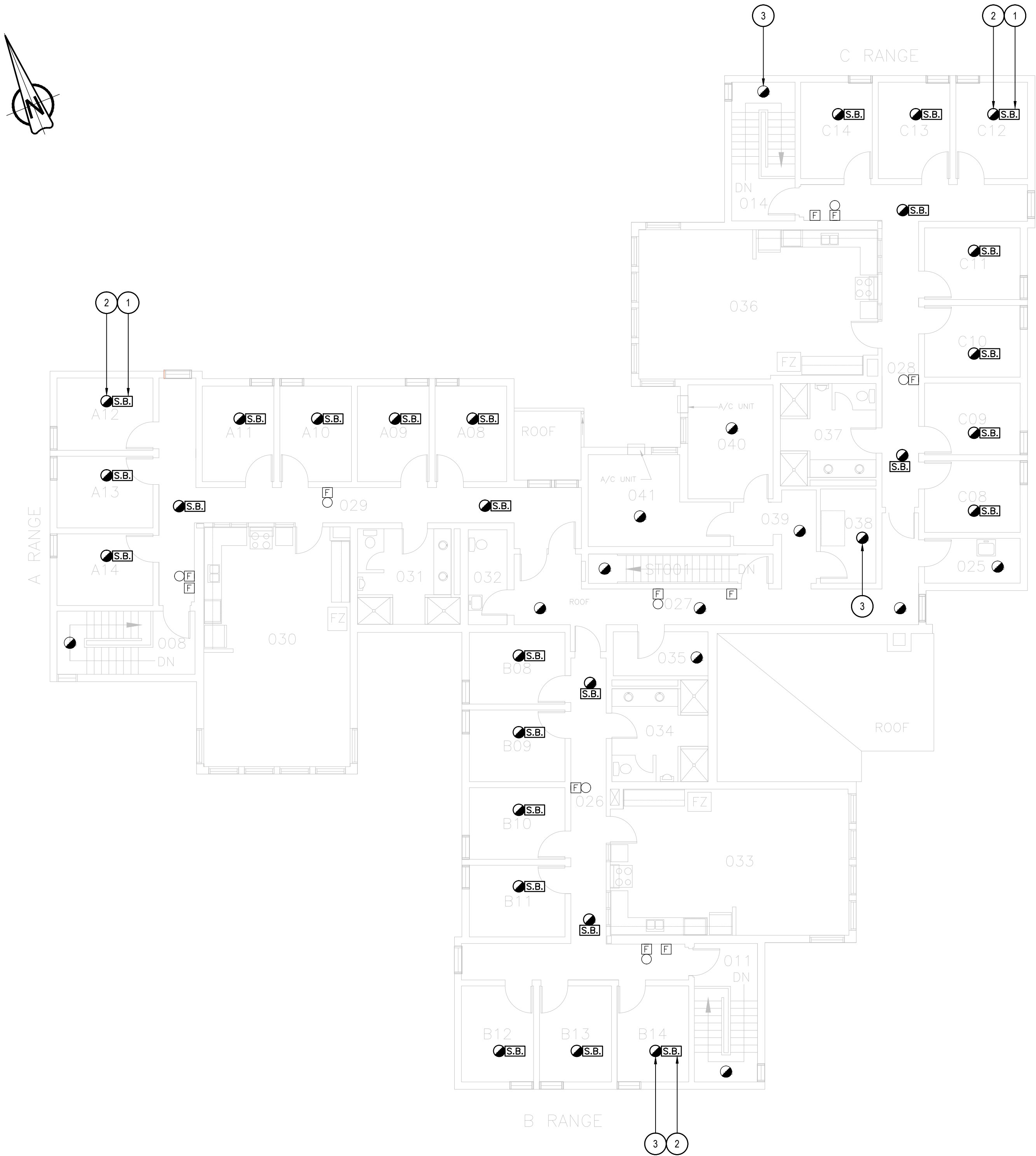
05	ISSUED FOR TENDER & PERMIT	2018-01-19
04	ISSUED FOR 100% REVIEW	2017-11-16
03	ISSUED FOR 99% REVIEW	2017-07-14
02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

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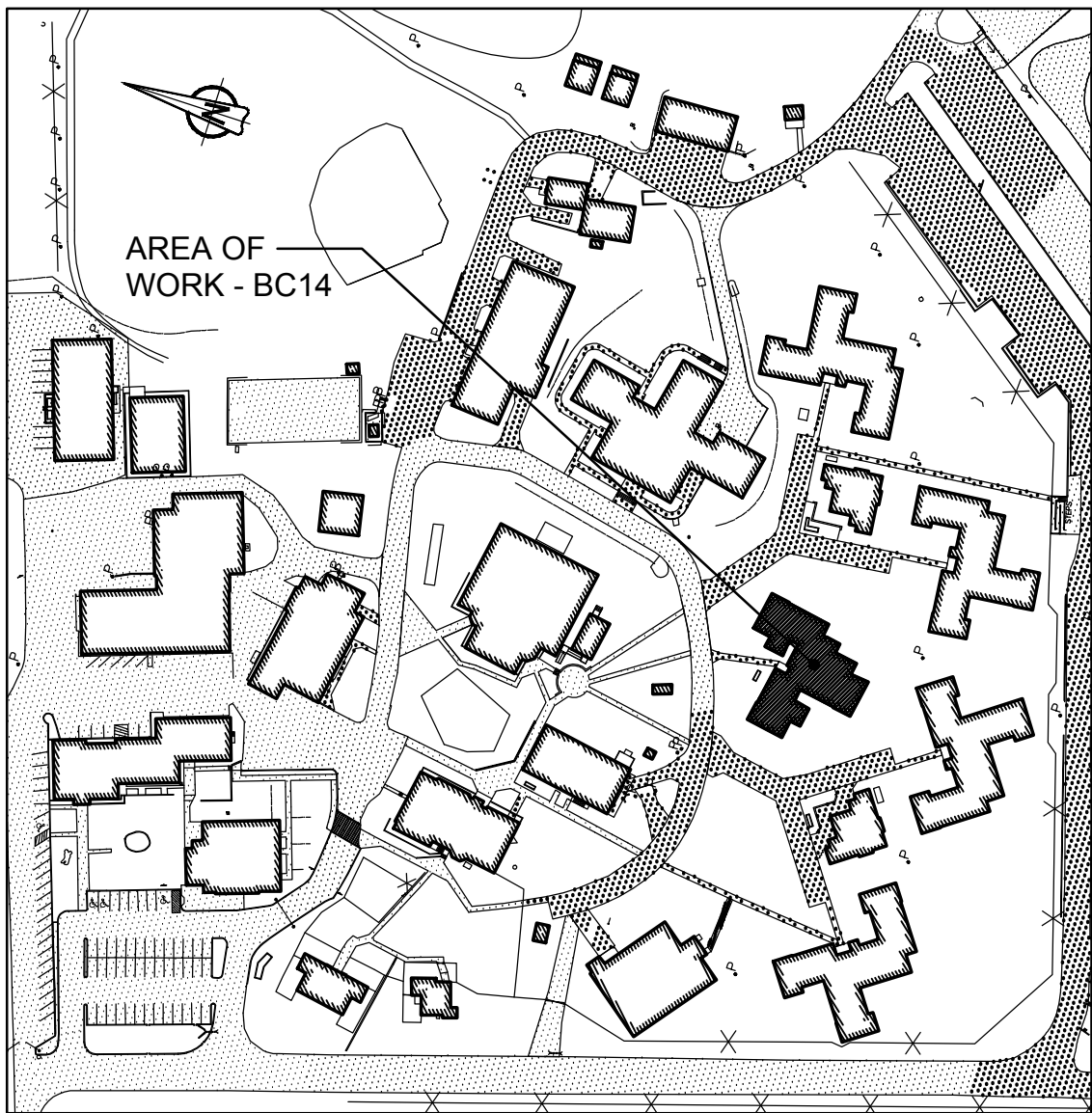


- A Detail No.  
No. du détail  
B drawing no. - where detail required  
dessin no. - où détail exigé  
C drawing no. - where detailed  
dessin no. - où détaillé

project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC14 - ACCOMMODATION UNIT #1 SECOND FLOOR NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC14_E203	

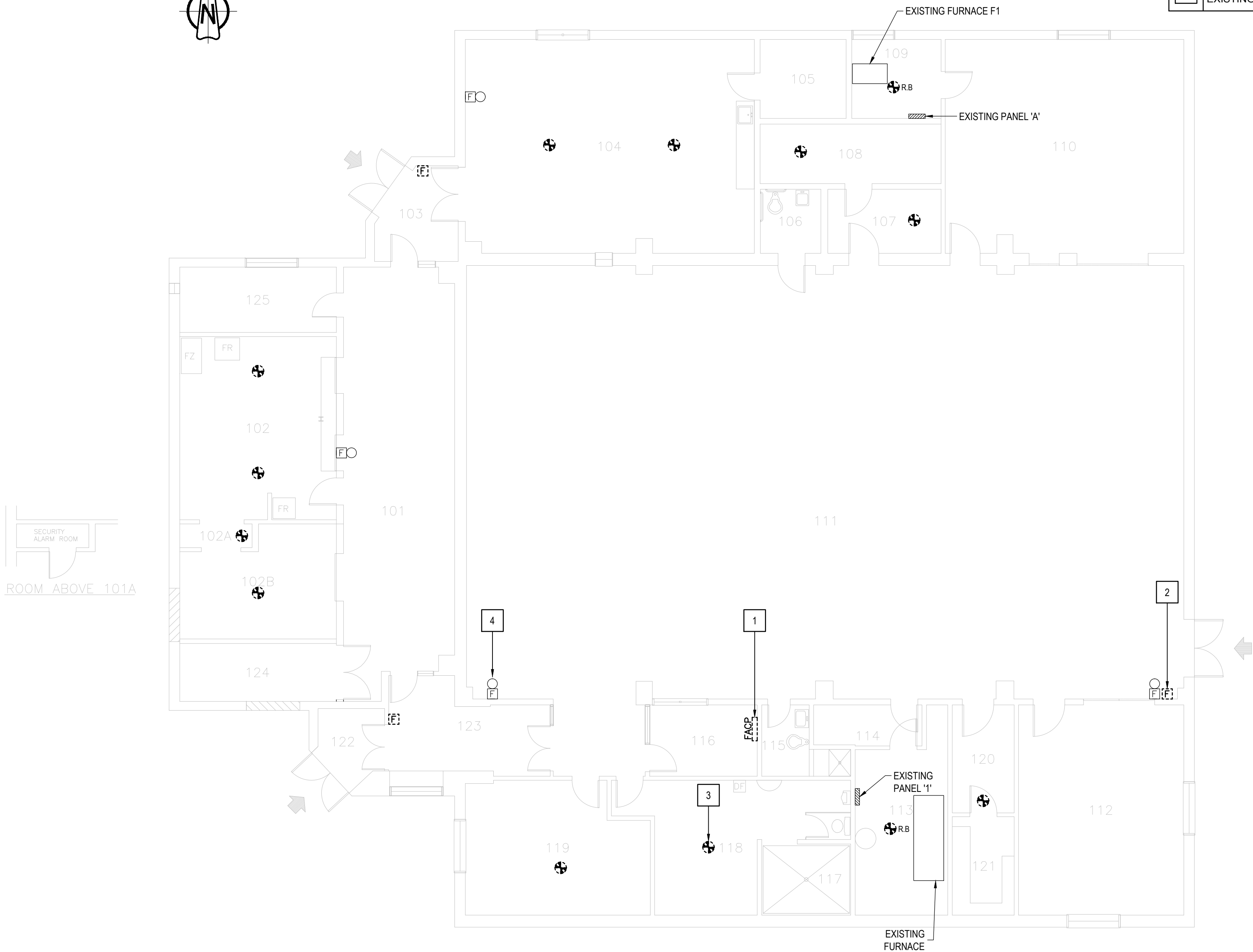
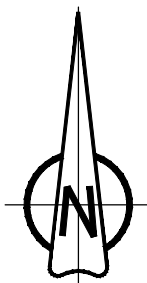


2 SECOND FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC14 - ACCOMMODATION UNITS #1  
SCALE: 1:2000





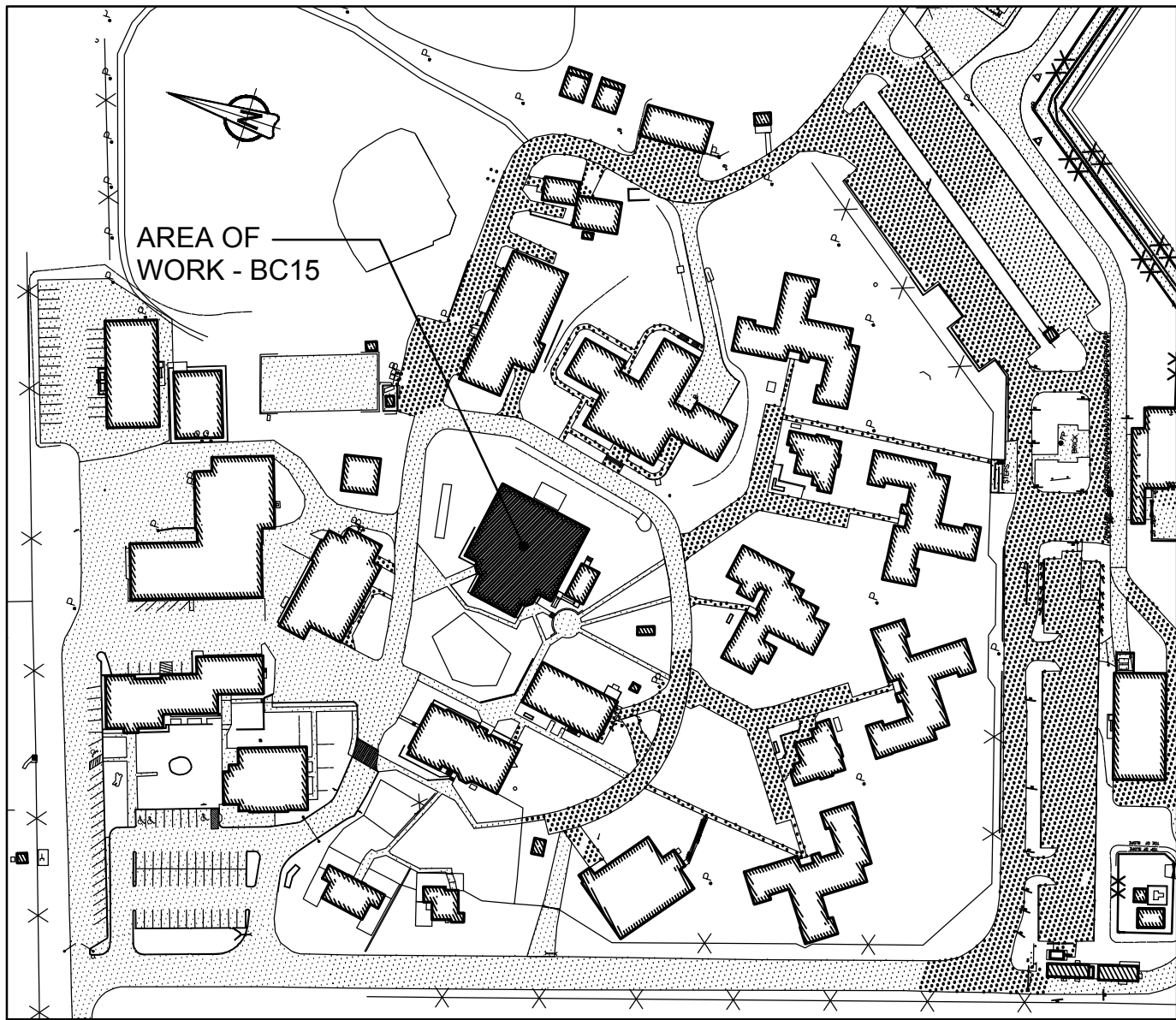
**2** FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100

GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO BE RELOCATED. SINGLE STAGE FOR GROUP A, DIVISION 2 OCCUPANCIES, NON-SPRINKLERED BUILDING. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF THREE (3) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
3	TYPICAL OF THIRTEEN (13) EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
4	TYPICAL OF FIVE (5) EXISTING FIRE ALARM BELL TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC15 GROUND FLOOR

ROOM INDEX	
101	CORRIDOR
102	CANTEEN
102A	WALKTHROUGH
102B	INMATE CANTEEN
103	VESTIBULE
104	HOBBY CRAFT ROOM
105	PAINT ROOM
106	WASHROOM
107	STORAGE
108	STORAGE
109	MECHANICAL ROOM
110	FITNESS ROOM
111	GYMNASIUM ROOM
112	EXERCISE ROOM
113	MECHANICAL ROOM
114	ELECTRICAL ROOM
115	WASHROOM
116	OFFICE
117	SHOWER
118	LOCKER ROOM AND WASHROOM
119	MUSIC ROOM
120	STORAGE
121	STORAGE ROOM
122	VESTIBULE
123	LOBBY
124	STORAGE ROOM
125	OFFICE



**1** KEY PLAN  
BUILDING BC15 - RECREATION BUILDING  
SCALE: 1:2000



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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC15 - RECREATION BUILDING FIRST FLOOR	
drawn by dessine par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuve par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessine no.	BC15_E200	



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3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
7.	DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

DRAWING NOTES - NEW	
1	RELOCATE EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO NEW LOCATION, AND MAKE FIRE ALARM AND 120V POWER CONNECTION. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES. UN-SPRINKLERED BUILDING. INSTALL INTERFACE CARD INSIDE EXISTING FIRE ALARM CONTROL PANEL. INSTALL OPTICAL FIBER CABLE AND WIRE TO THE FIRE ALARM CONTROL PANEL.
2	TYPICAL OF THREE (3) NEW ADDRESSABLE FIRE ALARM PULL STATION AT A.F.F. 1150mm. WIRE BACK TO EXISTING CIRCUIT. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
3	TYPICAL OF THIRTEEN (13) NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR TO BE INSTALLED AT EXISTING LOCATION. WIRE BACK TO EXISTING CIRCUIT.
4	TYPICAL OF FIVE (5) EXISTING FIRE ALARM BELL TO REMAIN.
5	TYPICAL OF TWO (2) PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR. WIRE TO EXISTING FIRE ALARM CIRCUIT AND PROVIDE VERIFICATION REPORT.
6	TYPICAL OF TWO (2) PROVIDE NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR. WIRE TO EXISTING FIRE ALARM HEAT DETECTOR CIRCUIT AND PROVIDE VERIFICATION REPORT.
7	TYPICAL OF THREE (3) PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE VERIFICATION REPORT.

8	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC15 TO NEARBY BUILDING FIRE ALARM CONTROL PANEL IN EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
9	PROVIDE A NEW CHUBB EDWARDS EST3 REMOTE ANNUNCIATOR PANEL C/W CONTO/DISPLAY MODULES AT ENTRANCE, WIRE TO EXISTING FIRE ALARM CONTROL PANEL, AND PROVIDE VERIFICATION REPORT. DISPLAY MODULES TO SHOW FIRE ALARM ZONE OF BUILDING BC15 PER FIRE ALARM ZONE SCHEDULE AS SHOWN IN DRAWING.
10	WIRE ALL ADDRESSABLE INITIATING DEVICES TOGETHER AND RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.
11	TYPICAL OF TWO (2): PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE FIRE ALARM SHUTDOWN. WIRE TO FIRE ALARM SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAILS.
12	PROVIDE CONTACTOR FOR FURNACE FAN CIRCUIT NUMBER 1 #3/5, 30A, 2P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
13	PROVIDE A NEW 15A, 1P BREAKER IN PANEL '1' FOR TRANSFORMER 120V INPUT CIRCUIT, CCT# 1#8.
14	PROVIDE CONTACTOR FOR FURNACE F1 FAN CIRCUIT NUMBER A #36/38, 30A, 2P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC15 GROUND FLOOR

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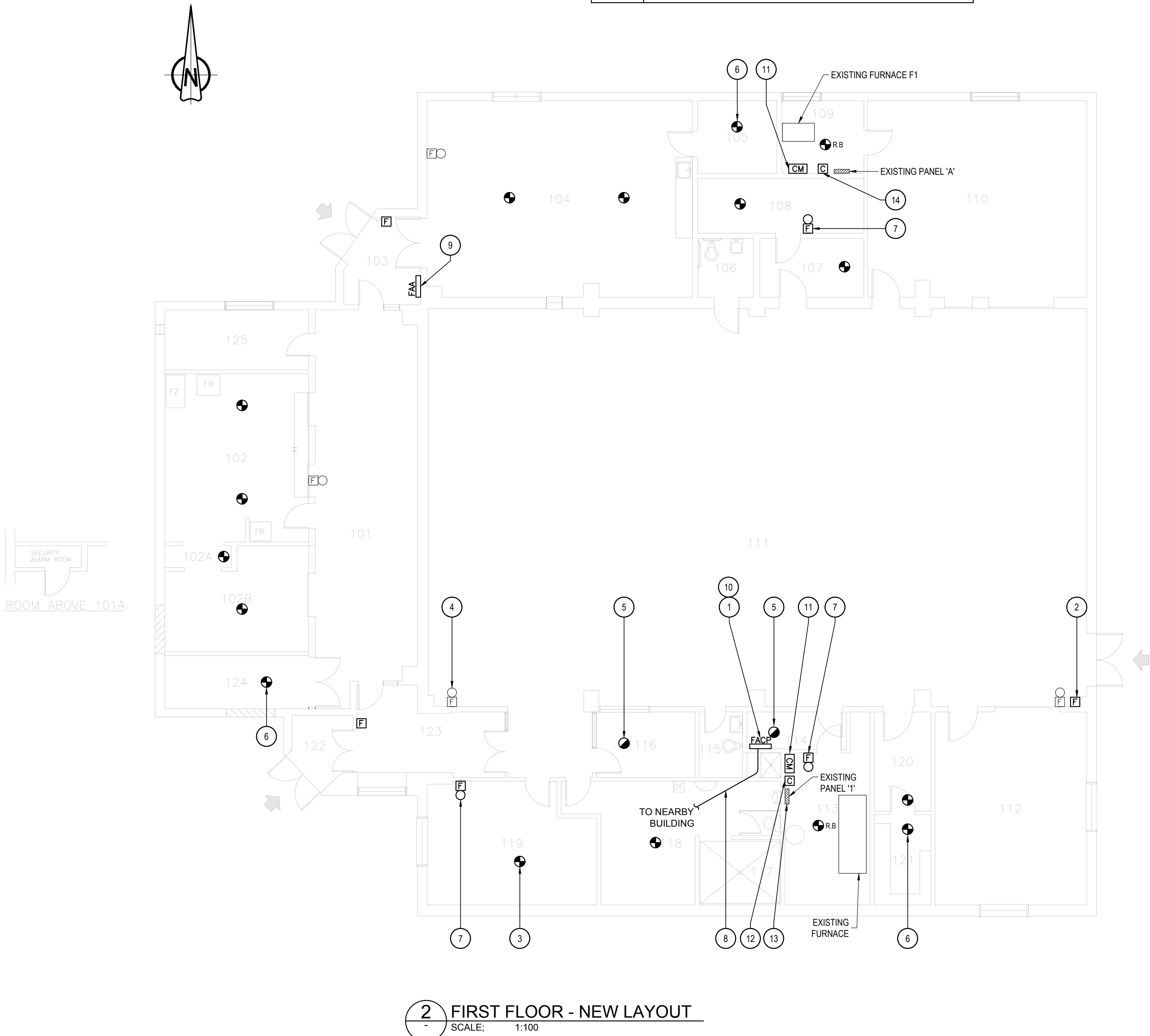


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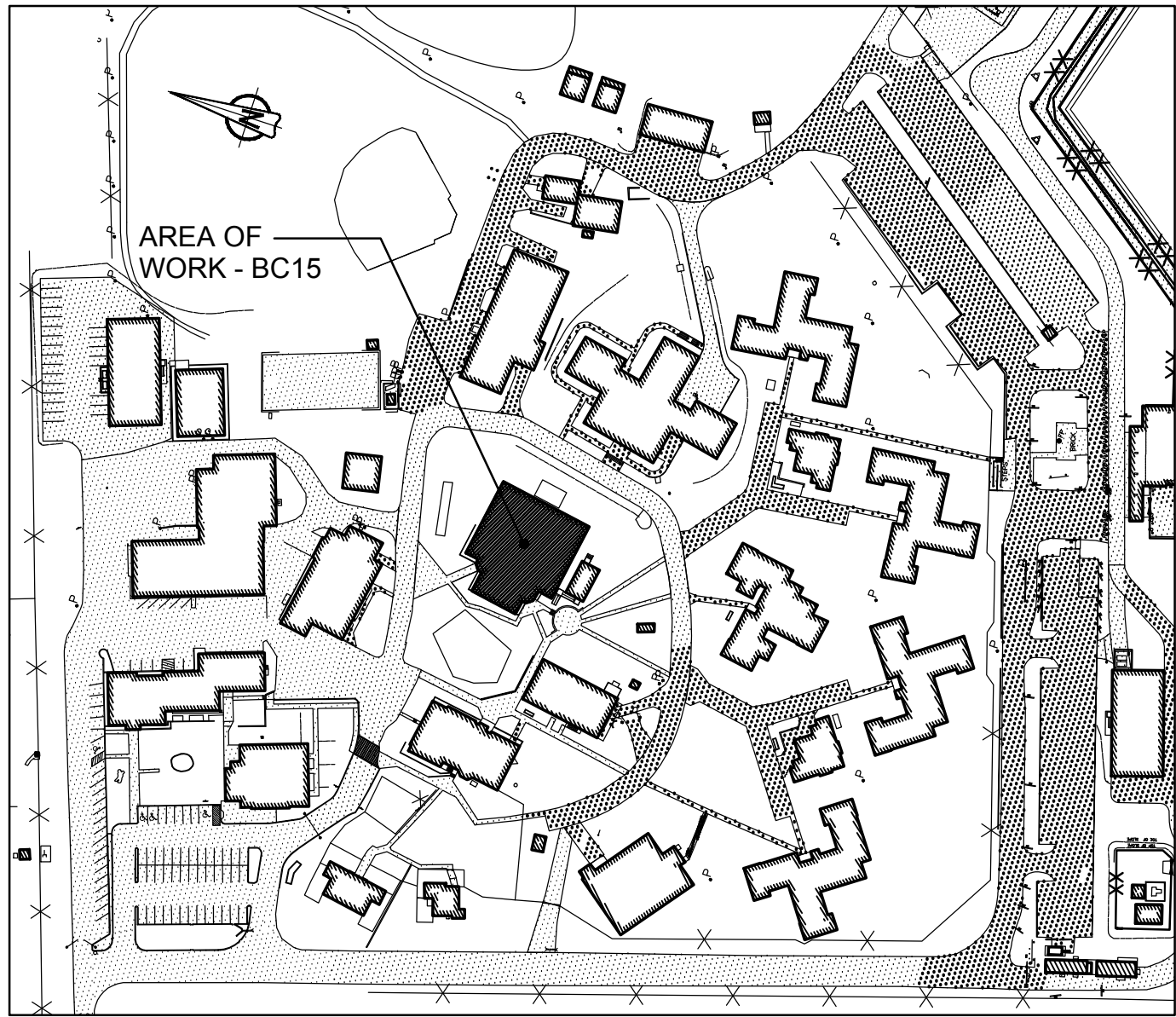
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BEAVER CREEK INSTITUTION	
FIRE ALARM SYSTEM UPGRADE - PHASE II	
drawing title titre du dessin	FIRE ALARM BC15 - RECREATION BUILDING FIRST FLOOR
NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.
designed by conc par	MIKE XU
approved by approuvé par	JEFFREY DUBEAU
bid offre	G.G. project manager administrateur de projets
project date date du projet	2018-01-19
project no. no. du projet	R.080201.001
drawing no. dessiné no.	BC15_E201

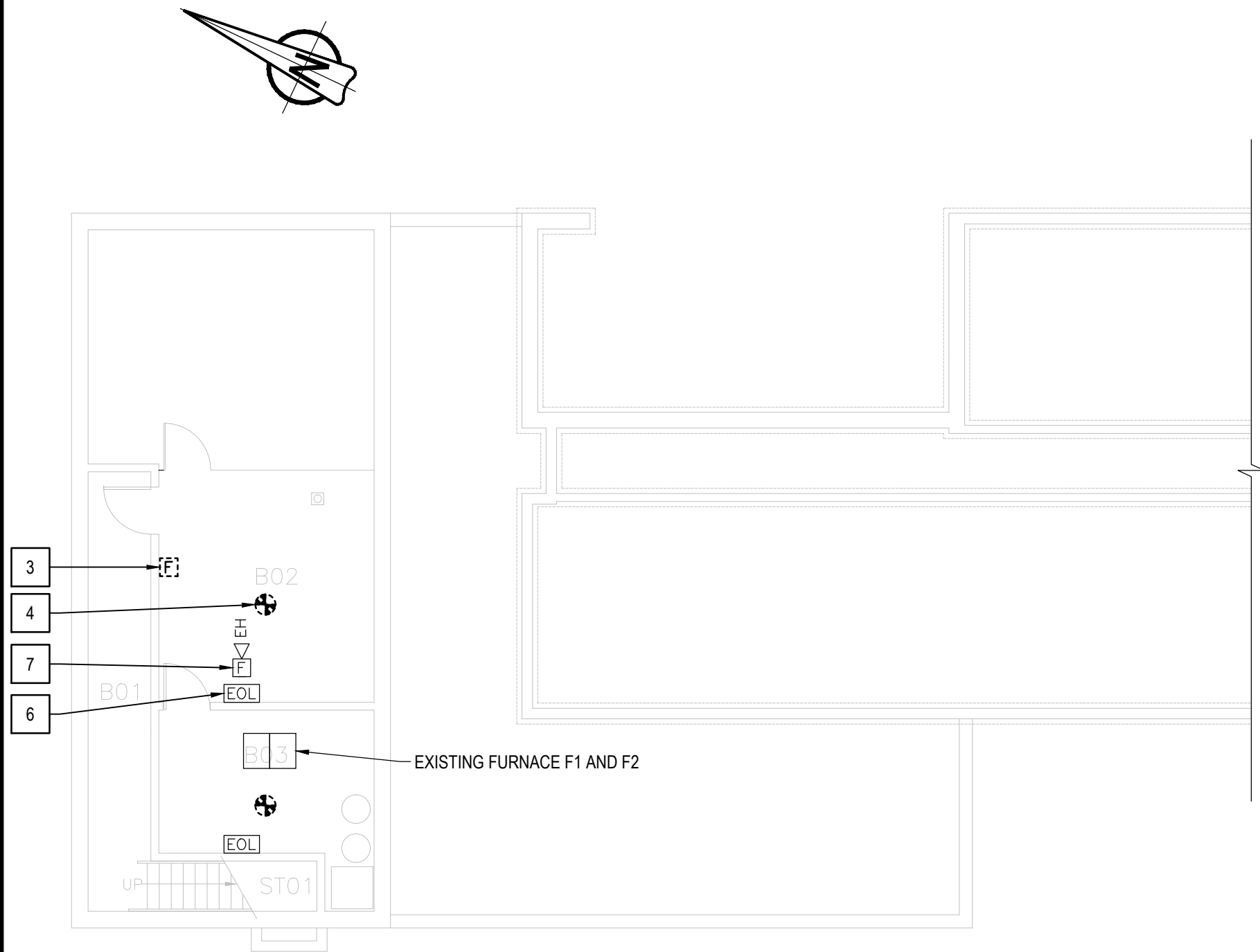


2 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC15 - RECREATION BUILDING  
SCALE: 1:2000





1 BASEMENT - DEMOLITION PARTIAL LAYOUT  
SCALE: 1:100

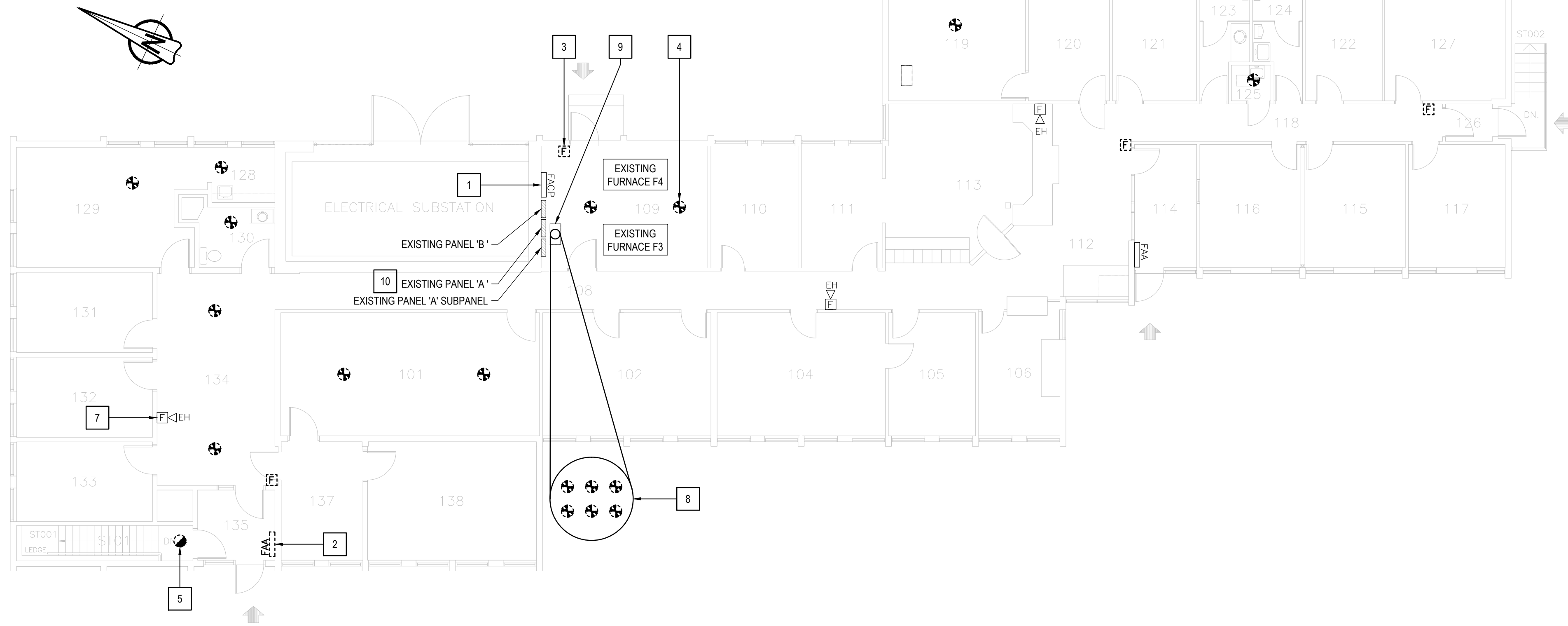
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3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
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5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP D OCCUPANCIES, NON-SPRINKLERED BUILDING. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL TO BE RELOCATED. REFER TO DRAWING BC16_E201 FOR NEW LOCATION. PATCH AND FIX WALL WHERE ANNUNCIATOR WAS LOCATED TO MATCH EXISTING SURROUNDINGS.
3	TYPICAL OF FIVE (5) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
4	TYPICAL OF NINETEEN (19) EXISTING FIRE ALARM HEAT DETECTOR IN BASEMENT AND FIRST FLOOR TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
5	TYPICAL OF TWO (2) EXISTING FIRE ALARM SMOKE DETECTOR TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.
6	TYPICAL OF TWO (2) EXISTING END OF LINE RESISTOR TO REMAIN.
7	TYPICAL OF FOUR (4) EXISTING FIRE ALARM HORN TO REMAIN.
8	TYPICAL OF SIX (6) EXISTING FIRE ALARM HEAT DETECTOR IN ATTIC TO BE REMOVED. REMOVE EXISTING WIRES FROM EXISTING CIRCUITS AND PROVIDE COVER PLATE FOR BACK BOX.
9	EXISTING ATTIC ACCESS DOOR.
10	REMOVE EXISTING SPARE 2P BREAKER, CIRCUIT NUMBER A#30/32.

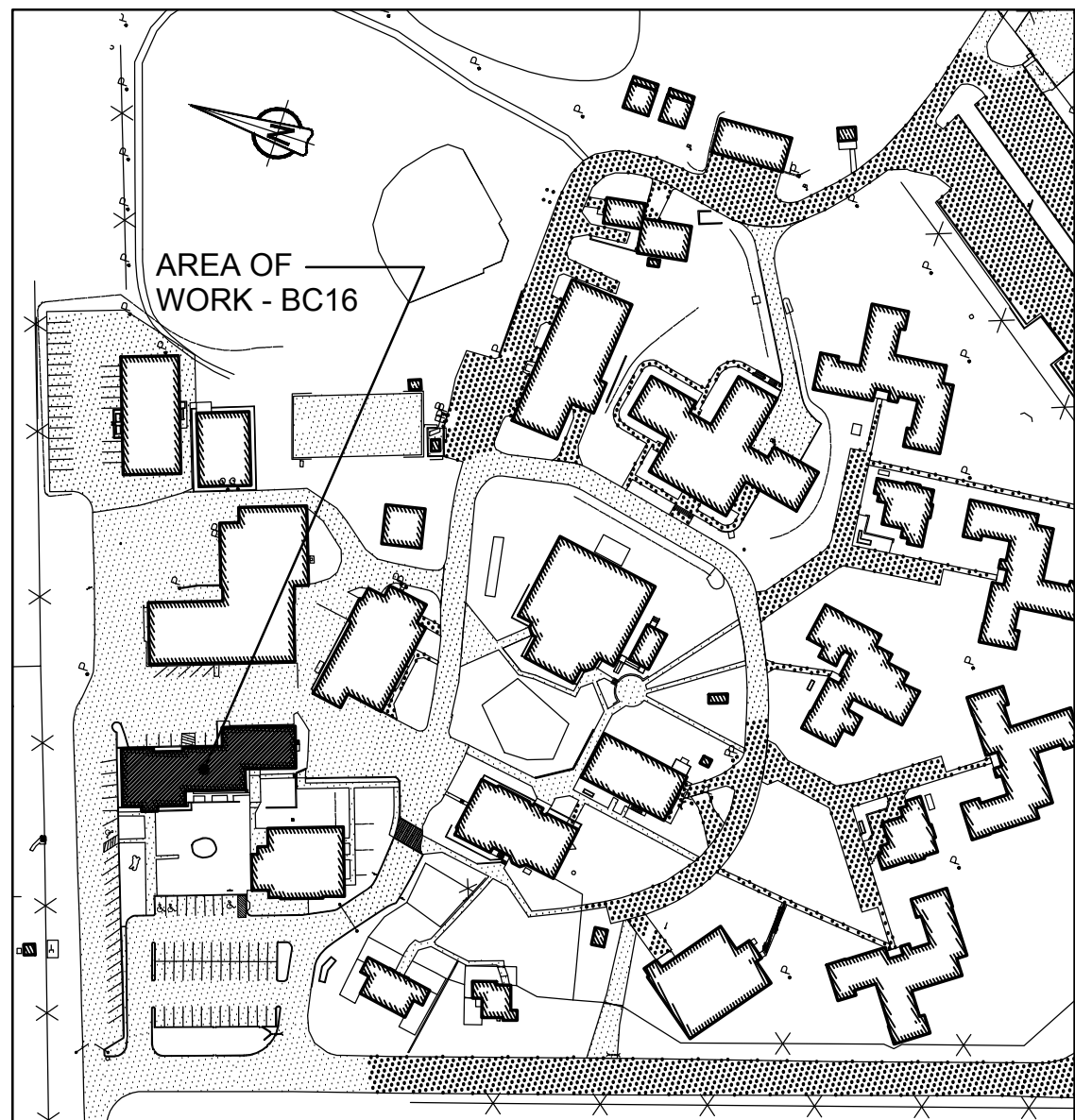
FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC16 MAIN FLOOR NORTH
ZONE 2	BUILDING BC16 BASEMENT STORAGE ROOM
ZONE 3	BUILDING BC16 STAIRWELL EAST
ZONE 4	BUILDING BC16 ATTIC
ZONE 5	BUILDING BC16 MAIN FLOOR MECHANICAL ROOM
ZONE 6	BUILDING BC16 BASEMENT MECHANICAL ROOM
ZONE 7	BUILDING BC16 MAIN FLOOR SOUTH

ROOM INDEX	
B01	CORRIDOR
B02	STORAGE
B03	SERVICE ROOM
ST01	STAIR NO.1

ROOM INDEX	
101	BOARD ROOM
102	SECURITY OFFICER
104	DEPUTY WARDEN
105	D.W. ASSISTANT
106	CLERK / PHOTOCOPY AREA
108	CORRIDOR
109	MECHANICAL AND ELECTRICAL ROOM
110	OFFICE
111	OFFICE
112	WAITING AREA
113	GENERAL OFFICE
114	VESTIBULE
115	OFFICE
116	OFFICE
117	OFFICE - CHIEF OF HUMAN RESOURCES
118	CORRIDOR
119	RECORDS
120	OFFICE - CENTRAL REGISTRY
121	OFFICE
122	OFFICE
123	WOMEN' WASHROOM / HANDICAPPED
124	MEN'S WASHROOM / HANDICAPPED
125	JANITOR
126	VESTIBULE
127	OFFICE
128	KITCHENETTE
129	LOUNGE
130	WASHROOM / HANDICAPPED
131	OFFICE
132	OFFICE
133	OFFICE
134	HALL
135	VESTIBULE
137	SECRETARY
138	WARDEN'S OFFICE
ST01	STAIR NO.1



2 FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC16 - ADMINISTRATION BUILDING  
SCALE: 1:2000

05	ISSUED FOR TENDER & PERMIT	2018-01-19
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BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC16 - ADMINISTRATION BUILDING FIRST FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
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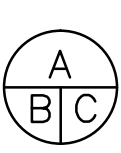
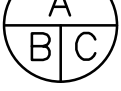



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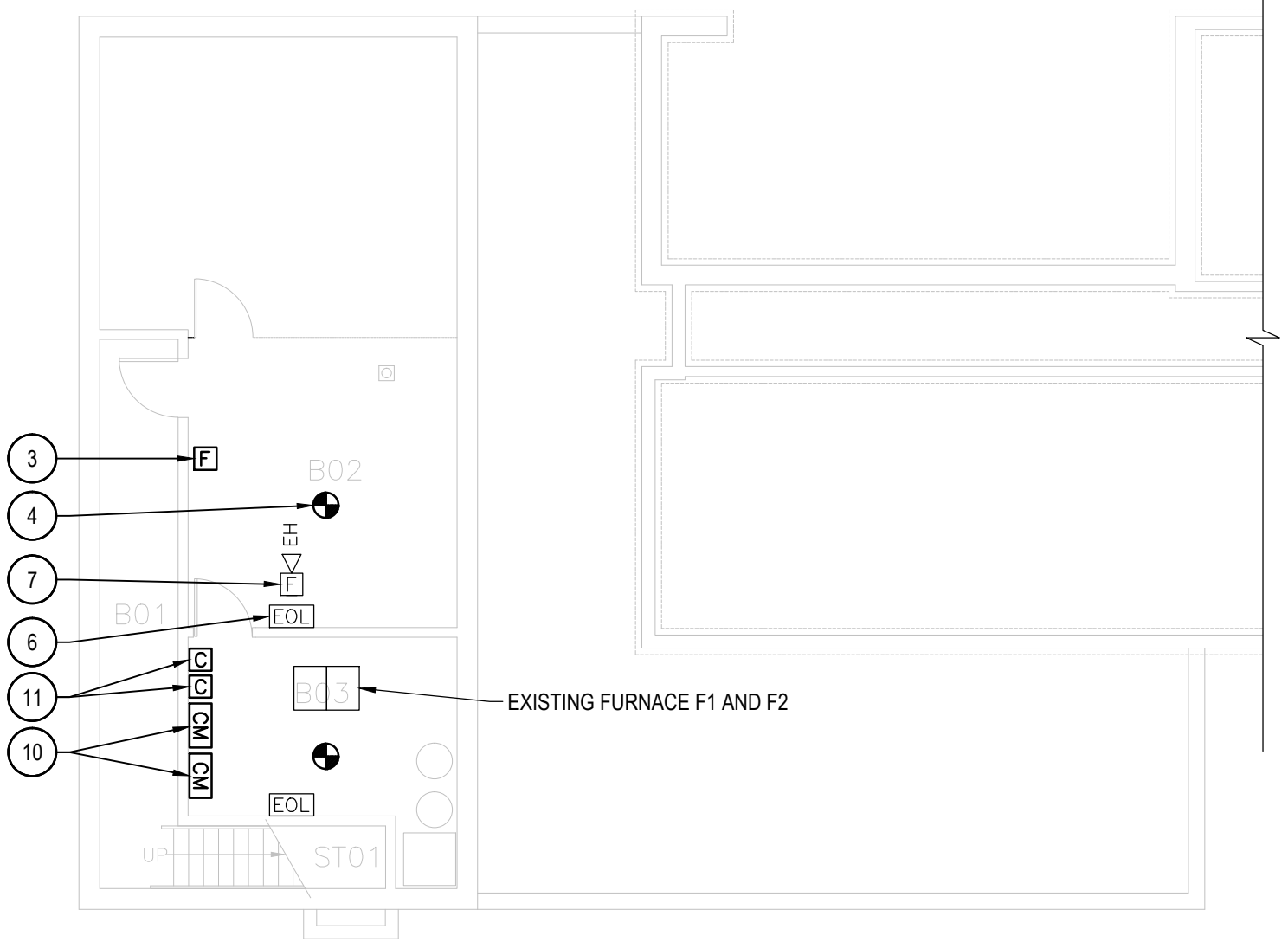


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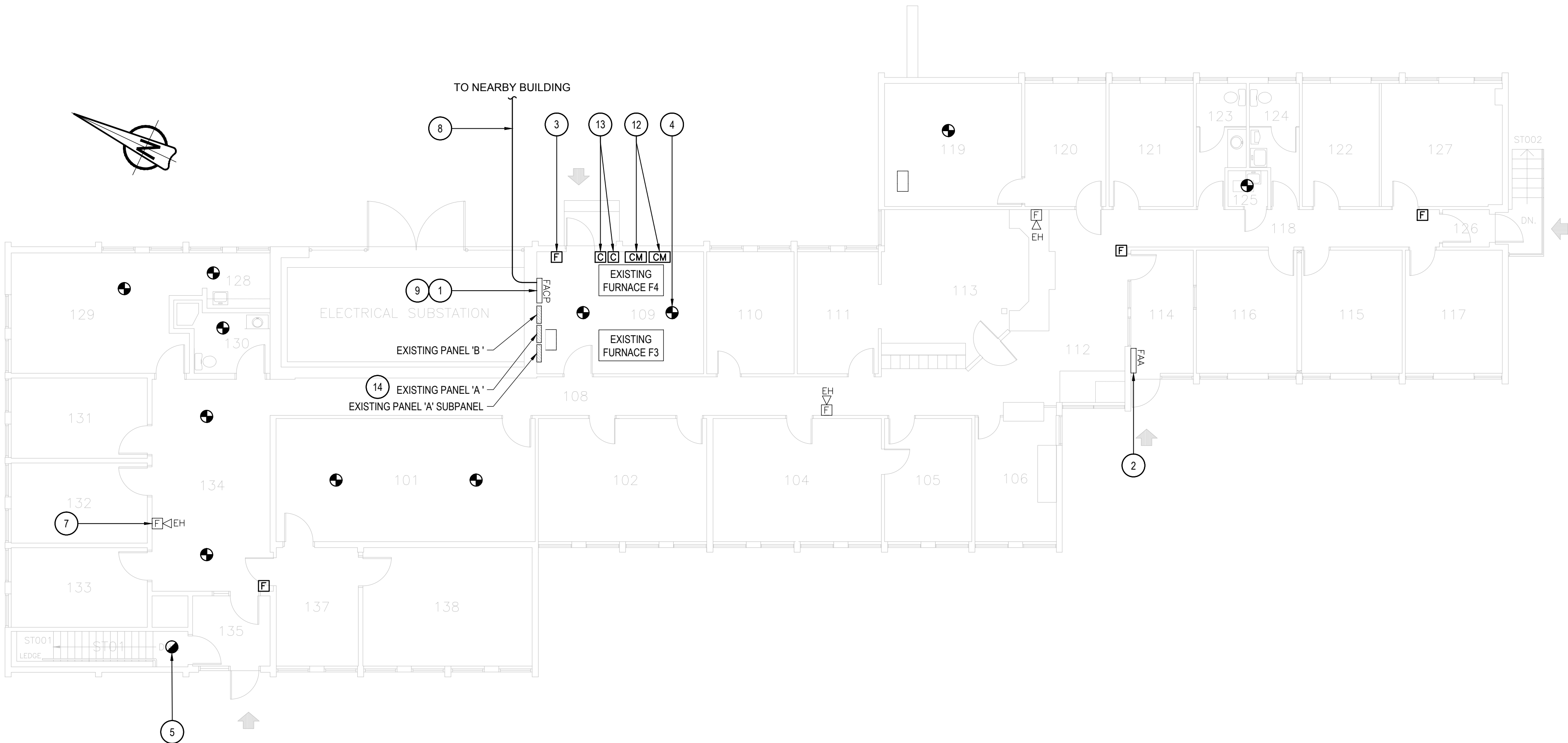
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project no. no. du projet	R.080201.001
drawing no. dessiné no.	BC16_E201



**1** BASEMENT - NEW PARTIAL LAYOUT  
SCALE: 1:100

DRAWING NOTES - NEW	
1	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP D OCCUPANCIES. UN-SPRINKLERED BUILDING. INSTALL FIBRE OPTIC INTERFACE CARD INSIDE EXISTING FIRE ALARM CONTROL PANEL. INSTALL FIBER OPTIC CABLE AND WIRE TO THE FIRE ALARM CONTROL PANEL.
2	EXISTING FIRE ALARM REMOTE ANNUNCIATOR PANEL TO BE LOCATED AT NEW LOCATION. PROVIDE NEW CONNECTION FROM ANNUNCIATOR BACK TO CONTROL PANEL. PREPARE WALL TO FIT ANNUNCIATOR PANEL.
3	TYPICAL OF FIVE (5) NEW ADDRESSABLE FIRE ALARM PULL STATION AT A.F.F. 1150mm. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
4	TYPICAL OF NINETEEN (19) NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR IN BASEMENT AND FIRST FLOOR. WIRE BACK TO EXISTING CIRCUIT.
5	TYPICAL OF TWO (2) NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR. WIRE BACK TO EXISTING CIRCUIT.
6	TYPICAL OF TWO (2) EXISTING END OF LINE RESISTOR TO REMAIN.
7	TYPICAL OF FOUR (4) EXISTING FIRE ALARM HORN TO REMAIN.
8	PROVIDE 62.5/125 MULTIMODE OPTICAL FIBER CABLE FROM BC16 TO NEARBY BUILDING FIRE ALARM CONTROL PANEL IN EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
9	WIRE ALL ADDRESSABLE INITIATING DEVICES TOGETHER AND RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.

10	TYPICAL OF TWO (2): PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE F1 AND F2 FIRE ALARM SHUTDOWN. WIRE TO FIRE ALARM SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAILS.
11	TYPICAL OF TWO (2): PROVIDE CONTACTOR FOR FURNACE FAN F1 AND F2 CIRCUIT NUMBER B#14 AND B#16, 30A, 1P.
12	TYPICAL OF TWO (2): PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE F3 AND F4 FIRE ALARM SHUTDOWN. WIRE TO FIRE ALARM SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAILS.
13	TYPICAL OF TWO (2): PROVIDE CONTACTOR FOR FURNACE FAN F3 AND F4 FED FROM SUB-PANEL OF PANEL 'A'. CONTRACTOR TO VERIFY BREAKER SIZE AND PHASE. PROVIDE A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
14	PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'A' FOR TRANSFORMER 120V INPUT CIRCUIT, CIRCUIT NUMBER A#30. UPDATE PANEL DIRECTORY.





GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICK START OS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	EXISTING FIRE ALARM ANNUNCIATOR PANEL TO BE REMOVED.
3	TYPICAL OF TWENTY (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
4	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATIONS TO REMAIN.
5	TYPICAL OF SIX (6) EXISTING FIRE ALARM BELLS TO REMAIN.

6	TYPICAL OF FOUR (4) EXISTING DUCT SMOKE DETECTOR TO REMAIN.
7	TYPICAL OF FOUR (4) EXISTING FLOW SWITCH C/W MONITOR MODULE TO REMAIN.
8	TYPICAL OF TWO (2) EXISTING PRESSURE SWITCH C/W MONITOR MODULE TO REMAIN.
9	TYPICAL OF THREE (3) EXISTING TAMPER SWITCH C/W MONITOR MODULE TO REMAIN.
10	TYPICAL OF FIVE (5) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.
11	EXISTING OUTDOOR FIRE ALARM STROBE TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC18 GROUND FLOOR J RANGE
ZONE 2	BUILDING BC18 GROUND FLOOR K RANGE
ZONE 3	BUILDING BC18 GROUND FLOOR L RANGE
ZONE 4	BUILDING BC18 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC18 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC18 2ND FLOOR J RANGE
ZONE 7	BUILDING BC18 2ND FLOOR L RANGE
ZONE 8	BUILDING BC18 2ND FLOOR K RANGE
ZONE 9	BUILDING BC18 DUCT DETECTORS
ZONE 10	BUILDING BC18 MAIN STAIRWELL
ZONE 11	BUILDING BC18 STAIRWELL L RANGE
ZONE 12	BUILDING BC18 STAIRWELL K RANGE
ZONE 13	BUILDING BC18 STAIRWELL J RANGE
ZONE 14	BUILDING BC18 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC18 MAIN SPRINKLER FLOW
ZONE 16	BUILDING BC18 GROUND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC18 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC018 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC18 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC18 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC18 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC18 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

ROOM INDEX	
J01	CORRIDOR
J02	INMATE ROOM 1
J03	INMATE ROOM 2
J04	INMATE ROOM 3
J05	INMATE ROOM 4
J06	INMATE ROOM 5
J07	INMATE ROOM 6
J08	WASHROOM
J09	KITCHEN
J10	LIVING ROOM
K01	CORRIDOR
K02	INMATE ROOM 1
K03	INMATE ROOM 2
K04	INMATE ROOM 3
K05	INMATE ROOM 4
K06	INMATE ROOM 5
K07	INMATE ROOM 6
K08	INMATE ROOM 7
K09	LIVING ROOM
K10	WASHROOM
K11	KITCHEN
L01	CORRIDOR
L02	INMATE ROOM 1
L03	INMATE ROOM 2
L04	INMATE ROOM 3
L05	INMATE ROOM 4
L06	INMATE ROOM 5
L07	INMATE ROOM 6
L08	WASHROOM
L09	INMATE ROOM 7
L10	LIVING ROOM
L11	KITCHEN
P01	MECHANICAL / ELECTRICAL ROOM
P02	JANITOR
P03	OFFICE / SUPERVISOR
P04	WASHROOM
P05	BATHROOM / HANDICAPPED
P06	OFFICE / PAROLE
P07	OFFICE / PAROLE
P08	CORRIDOR
P09	VESTIBULE
P10	SPRINKLER ROOM
P11	P RANGE STAIR
P11A	L RANGE STAIR
P11B	J RANGE STAIR
P11C	K RANGE STAIR

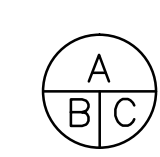


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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
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project title  
titre du projet  
**Gravenhurst** Ontario

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC18 - ACCOMMODATION  
UNIT #4  
GROUND FLOOR  
DEMOLITION LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C./J.C./T.T**

designed by  
conc par **MIKE XU**

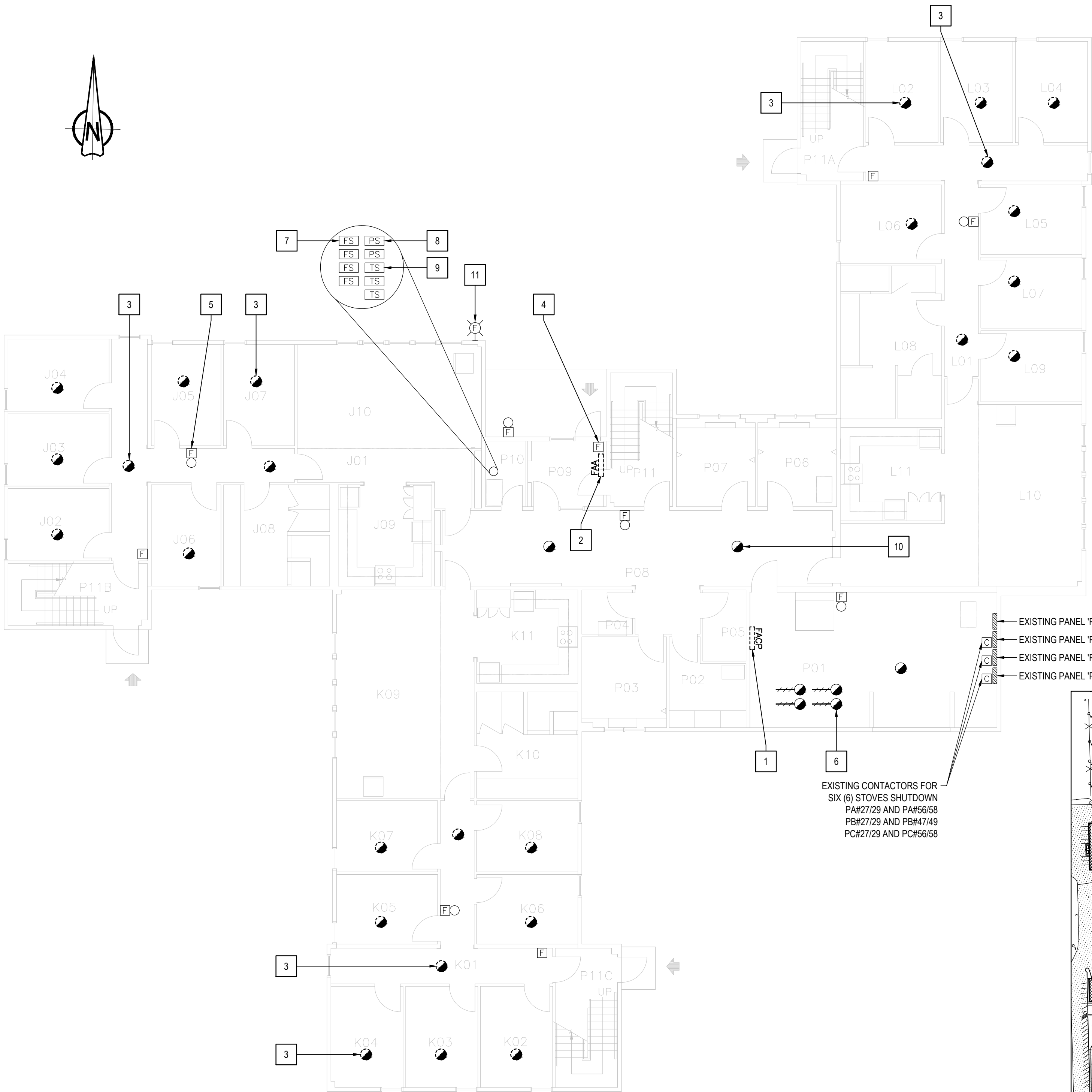
approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur  
de projets

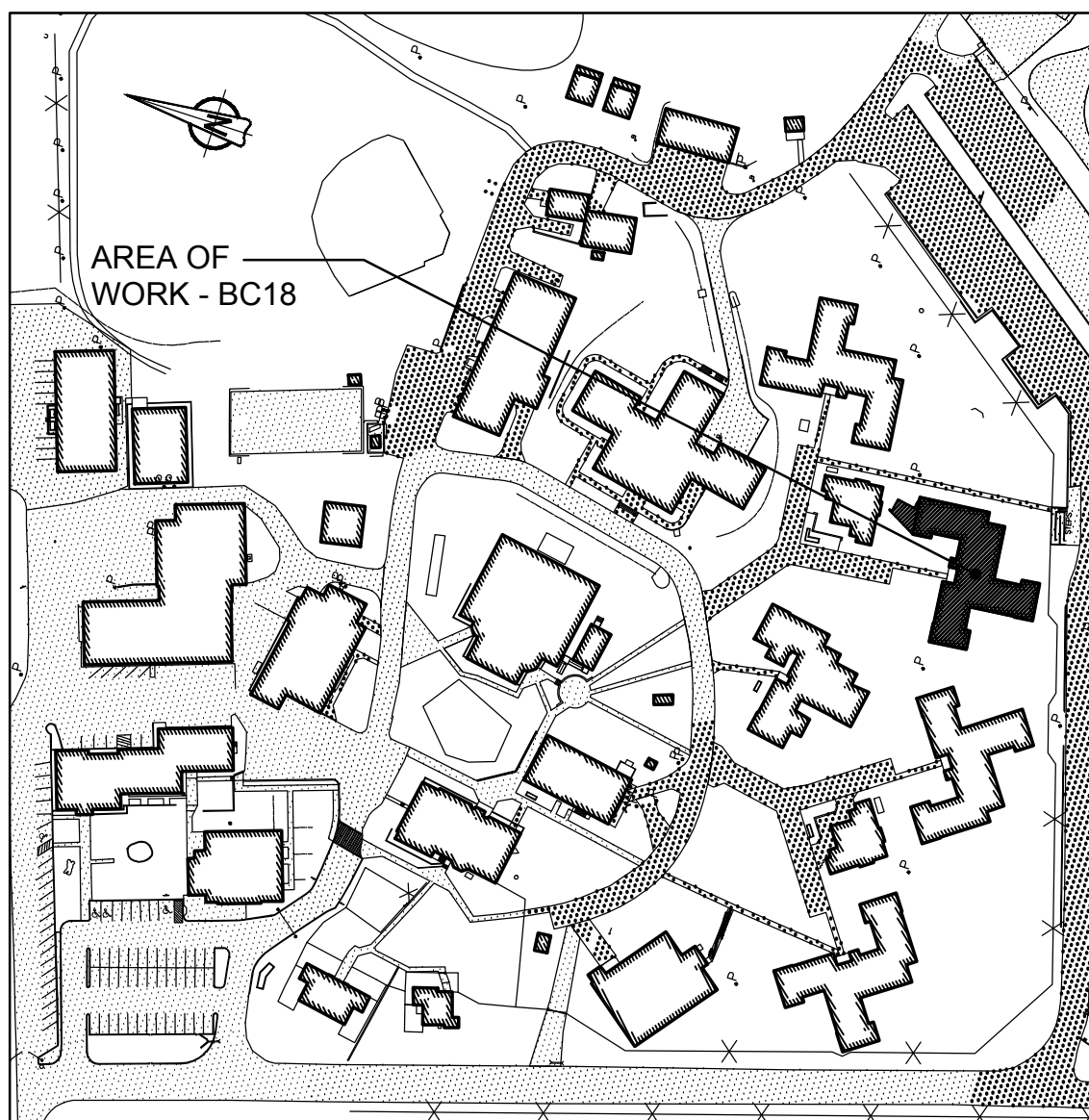
project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC18\_E200**



**2** GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



**1** KEY PLAN  
BUILDING BC18 - ACCOMMODATION UNITS #4  
SCALE: 1:2000

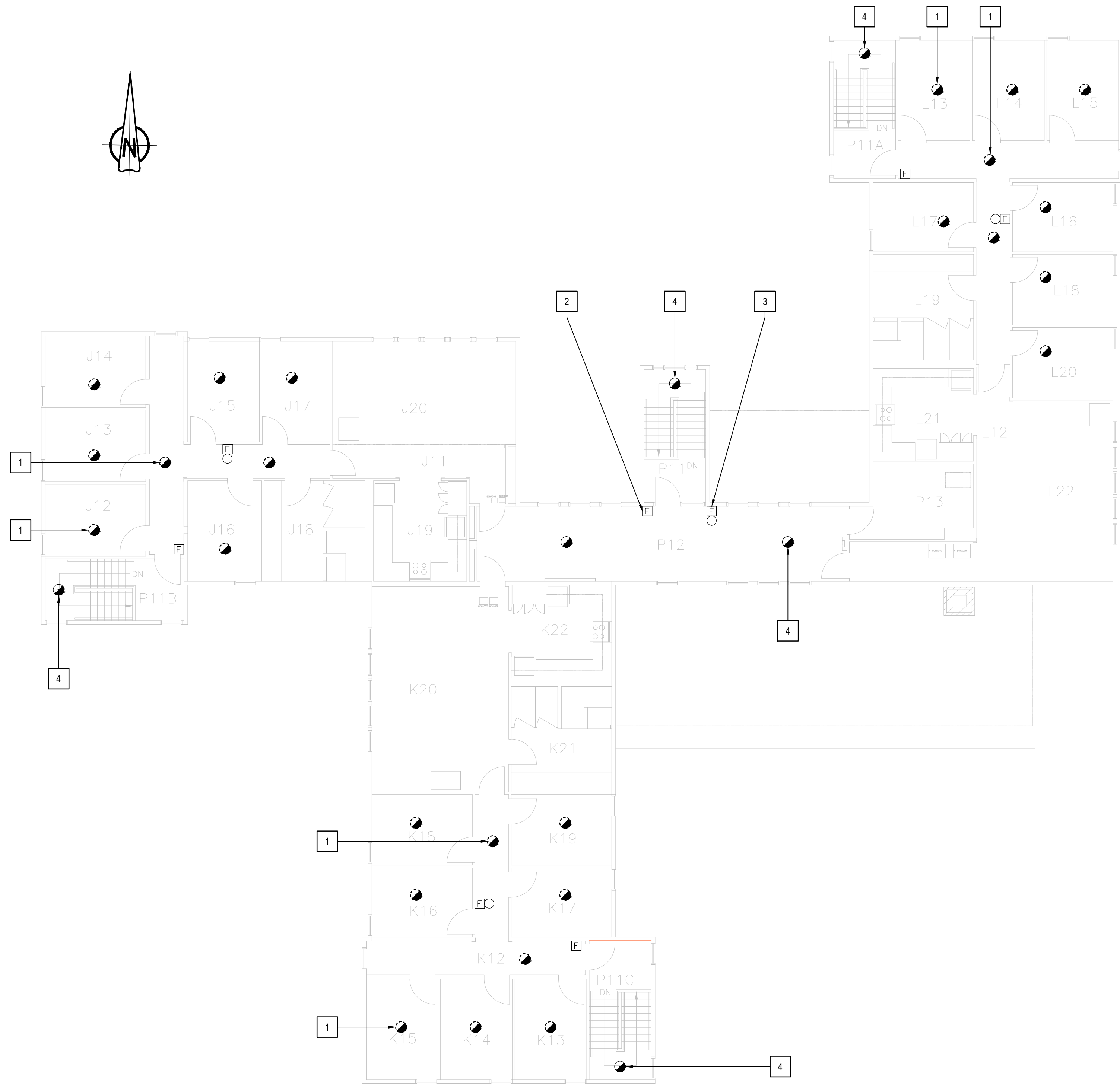


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2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

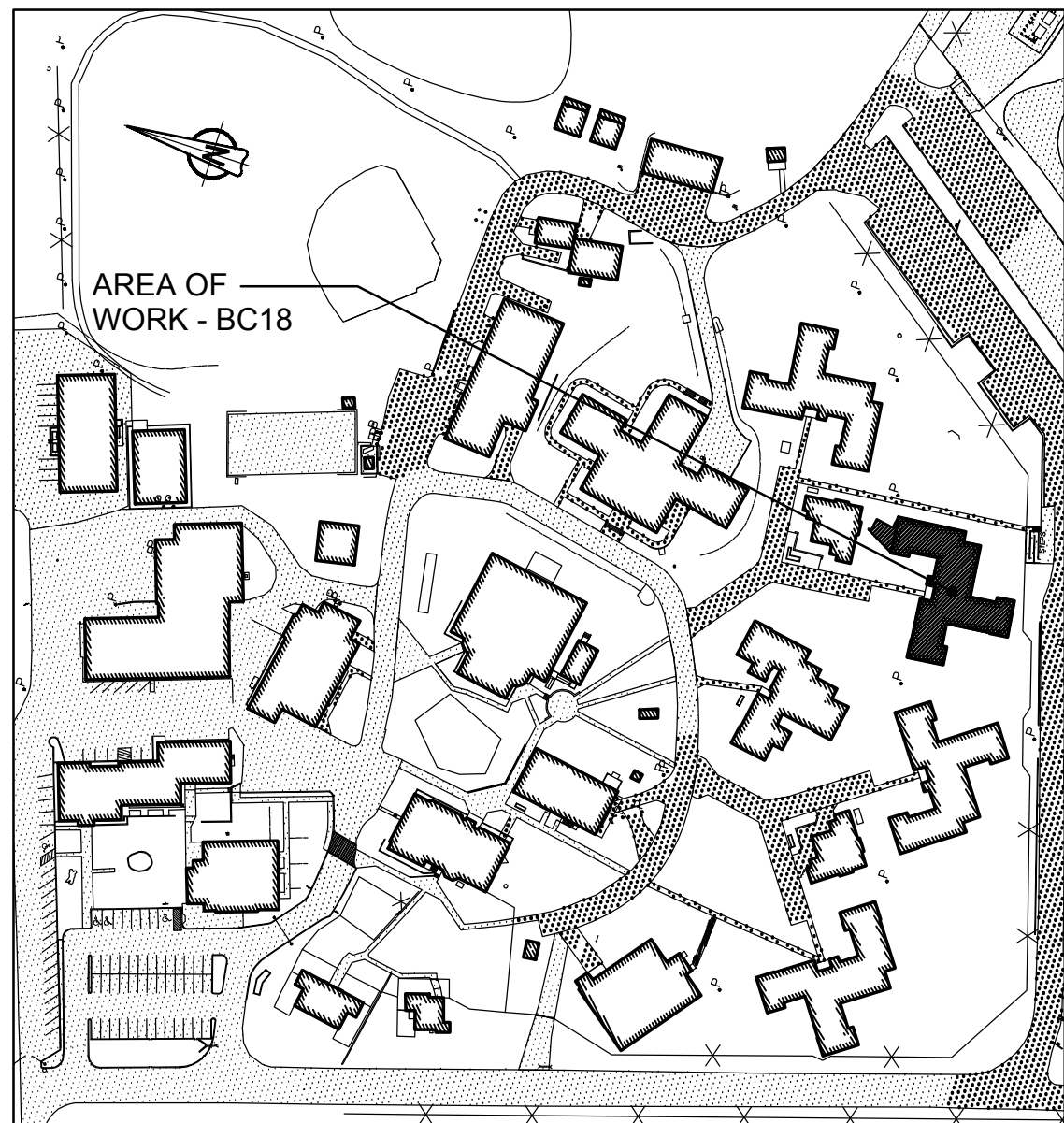
DRAWING NOTES - DEMOLITION	
1	TYPICAL OF TWENTY (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
2	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATIONS TO REMAIN.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM BELLS TO REMAIN.
4	TYPICAL OF NINE (9) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC18 GROUND FLOOR J RANGE
ZONE 2	BUILDING BC18 GROUND FLOOR K RANGE
ZONE 3	BUILDING BC18 GROUND FLOOR L RANGE
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ROOM INDEX	
J11	CORRIDOR
J12	INMATE ROOM 7
J13	INMATE ROOM 8
J14	INMATE ROOM 9
J15	INMATE ROOM 10
J16	INMATE ROOM 11
J17	INMATE ROOM 12
J18	WASHROOM
J19	KITCHEN
J20	LIVING ROOM
K12	CORRIDOR
K13	INMATE ROOM 8
K14	INMATE ROOM 9
K15	INMATE ROOM 10
K16	INMATE ROOM 11
K17	INMATE ROOM 12
K18	INMATE ROOM 13
K19	INMATE ROOM 14
K20	LIVING ROOM
K21	WASHROOM
K22	KITCHEN
L12	CORRIDOR
L13	INMATE ROOM 8
L114	INMATE ROOM 9
L15	INMATE ROOM 10
L16	INMATE ROOM 11
L17	INMATE ROOM 12
L18	INMATE ROOM 13
L19	WASHROOM
L20	INMATE ROOM 14
L21	KITCHEN
L22	LIVING ROOM
P11	P RANGE STAIR
P11A	L RANGE STAIR
P11B	J RANGE STAIR
P11C	K RANGE STAIR
P12	CORRIDOR
P13	JANITOR ROOM



2 SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC18 - ACCOMMODATION UNITS #4  
SCALE: 1:2000



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	drawing no. - where detailed dessin no. - où détaillé

project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC18 - ACCOMMODATION UNIT #4 SECOND FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC18_E201	



## GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS, CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

## DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES, SPRINKLERED BUILDING. INSTALL CONTROL PANEL AT EXISTING LOCATION AND WIRE BACK TO ALL EXISTING CIRCUITS. INSTALL FIBER OPTIC CABLE AND WIRE TO FIBER OPTIC INTERFACE CARD IN THE FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM VERIFICATION REPORT.
- NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL C/W DISPLAY MODULES TO BE MOUNTED AT EXISTING LOCATION AND WIRE TO CONTROL PANEL. PREPARE WALL TO FIT NEW PANEL. DISPLAY MODULES TO SHOW FIRE ALARM ZONE OF BUILDING PER FIRE ALARM ZONE SCHEDULE AS SHOWN IN DRAWING.
- TYPICAL OF TWO (2)  
PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS #BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FIRE ALARM CONTROL PANEL 120V POWER SOURCE. FOUR(4) CIRCUITS PER BOOSTER.
- TYPICAL OF TWENTY SIX (26)  
PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUITS). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- TYPICAL OF TWENTY SIX (26)  
EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- TYPICAL OF FOUR (4)  
EXISTING FIRE ALARM PULL STATIONS TO REMAIN.
- TYPICAL OF SIX (6)  
EXISTING FIRE ALARM BELLS TO REMAIN.

- TYPICAL OF FOUR (4)  
EXISTING DUCT SMOKE DETECTOR TO REMAIN.
- TYPICAL OF FOUR (4)  
EXISTING FLOW SWITCH C/W MONITOR MODULE TO REMAIN.
- TYPICAL OF TWO (2)  
EXISTING PRESSURE SWITCH C/W MONITOR MODULE TO REMAIN.
- TYPICAL OF THREE (3)  
EXISTING TAMPER SWITCH C/W MONITOR MODULE TO REMAIN.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC18 TO NEARBY BUILDING FIRE ALARM CONTROL PANEL IN EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTION.
- TYPICAL OF SIX (6)  
PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

## FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC18 GROUND FLOOR J RANGE
ZONE 2	BUILDING BC18 GROUND FLOOR K RANGE
ZONE 3	BUILDING BC18 GROUND FLOOR L RANGE
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## ROOM INDEX

J01	CORRIDOR
J02	INMATE ROOM 1
J03	INMATE ROOM 2
J04	INMATE ROOM 3
J05	INMATE ROOM 4
J06	INMATE ROOM 5
J07	INMATE ROOM 6
J08	WASHROOM
J09	KITCHEN
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K01	CORRIDOR
K02	INMATE ROOM 1
K03	INMATE ROOM 2
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K08	INMATE ROOM 7
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P09	VESTIBULE
P10	SPRINKLER ROOM
P11	P RANGE STAIR
P11A	L RANGE STAIR
P11B	J RANGE STAIR
P11C	K RANGE STAIR



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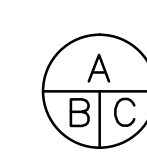
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**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
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**FIRE ALARM  
BC18 - ACCOMMODATION  
UNIT #4  
GROUND FLOOR  
NEW LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

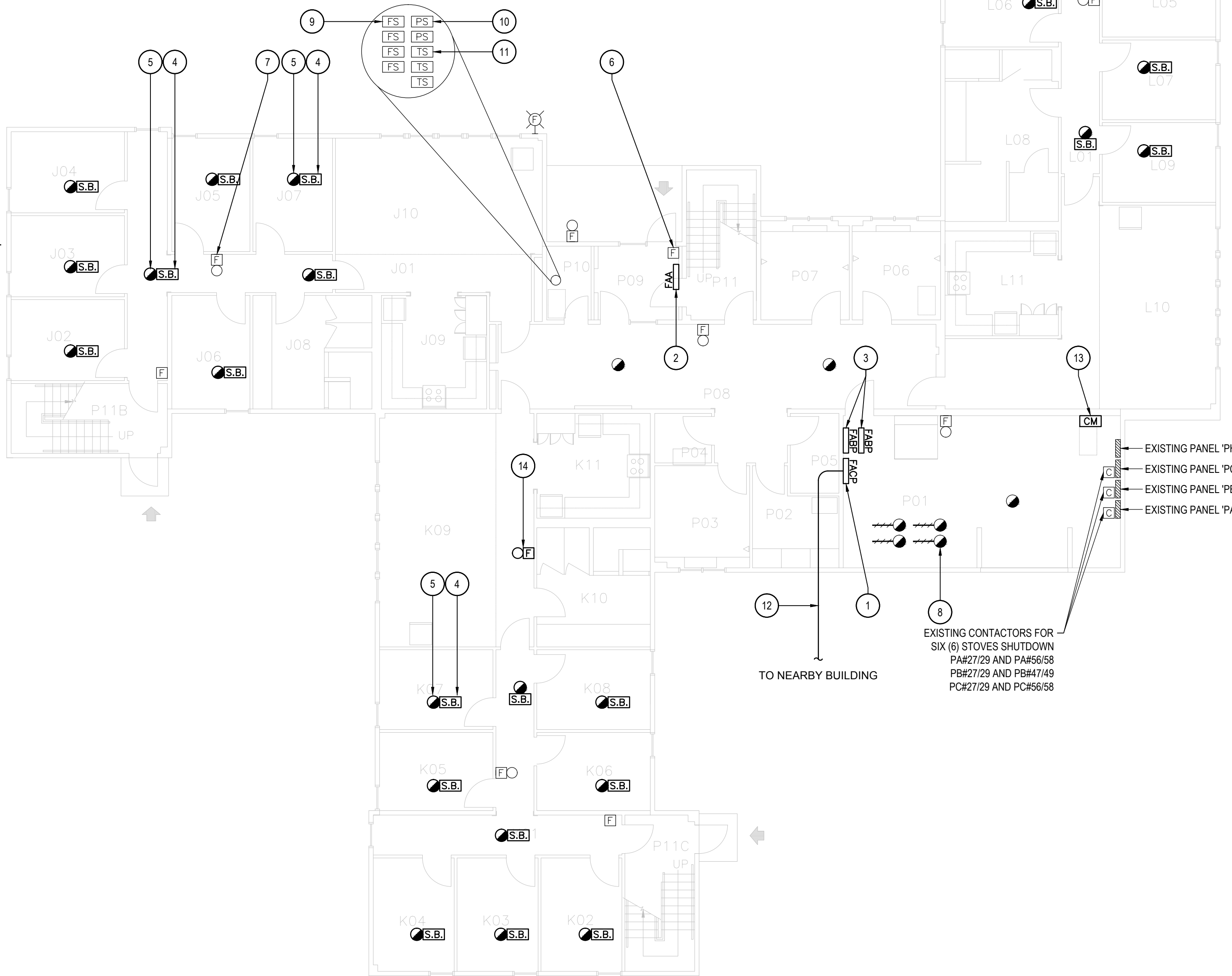
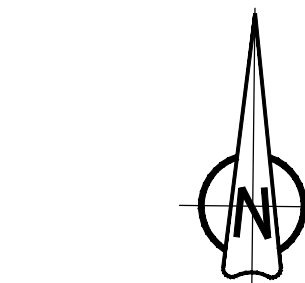
approved by  
approuvé par  
**JEFFREY DUBEAU**

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offre  
**G.G.** project manager  
administrateur  
de projets

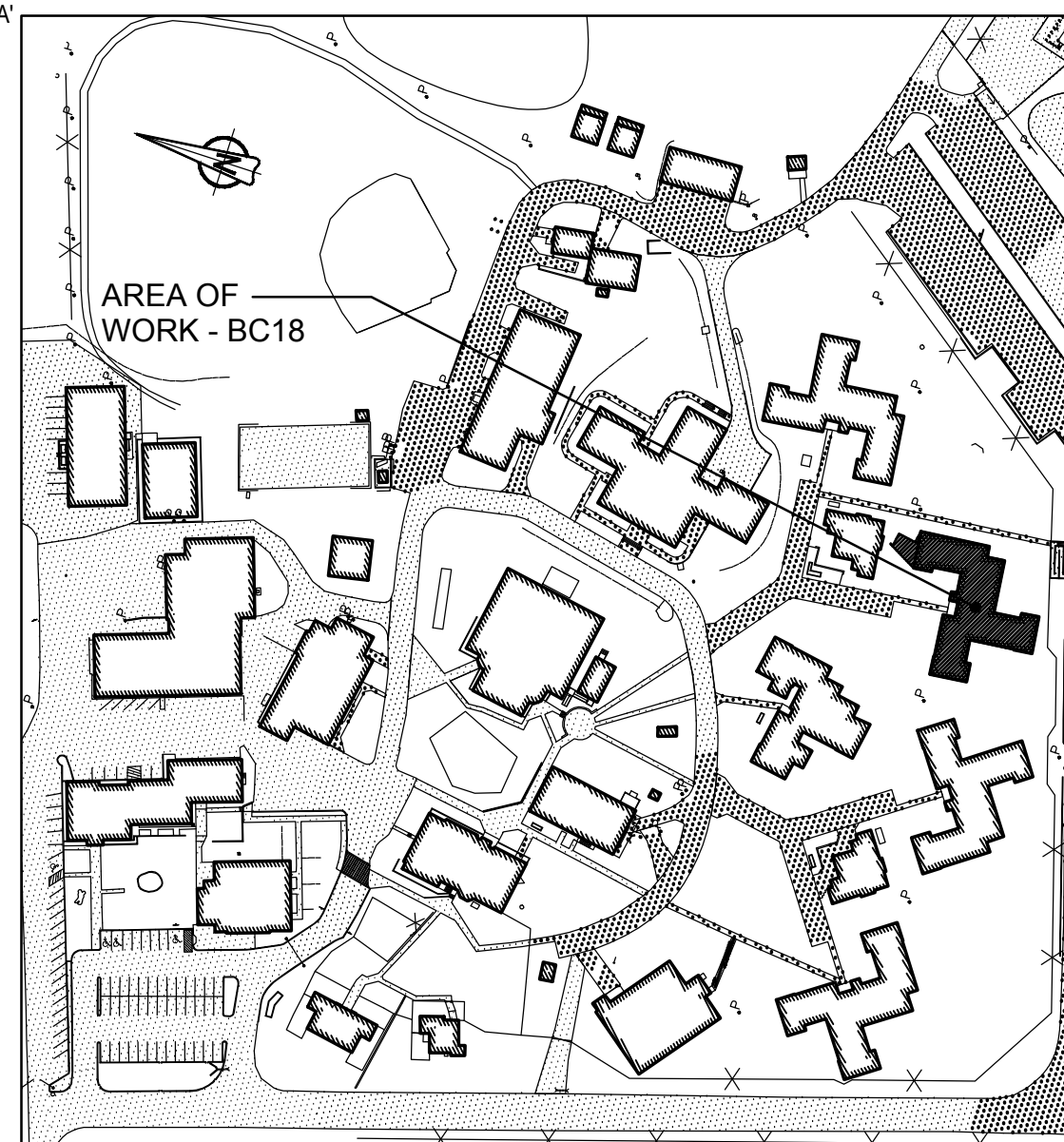
project date  
date du projet  
**2018-01-19**

project no.  
no. du projet  
**R.080201.001**

drawing no.  
dessiné no.  
**BC18\_E202**



**2 GROUND FLOOR - NEW LAYOUT**  
SCALE: 1:100



**1 KEY PLAN  
BUILDING BC18 - ACCOMMODATION UNITS #4**  
SCALE: 1:2000

SEQUENCE OF ACTIVATION OF  
FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
- RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.



GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - NEW	
1	TYPICAL OF TWENTY SIX (26) PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (7 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAIL.
2	TYPICAL OF TWENTY SIX (26) EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATIONS TO REMAIN.
4	TYPICAL OF FOUR (4) EXISTING FIRE ALARM BELLS TO REMAIN.
5	PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

## FIRE ALARM ZONE SCHEDULE

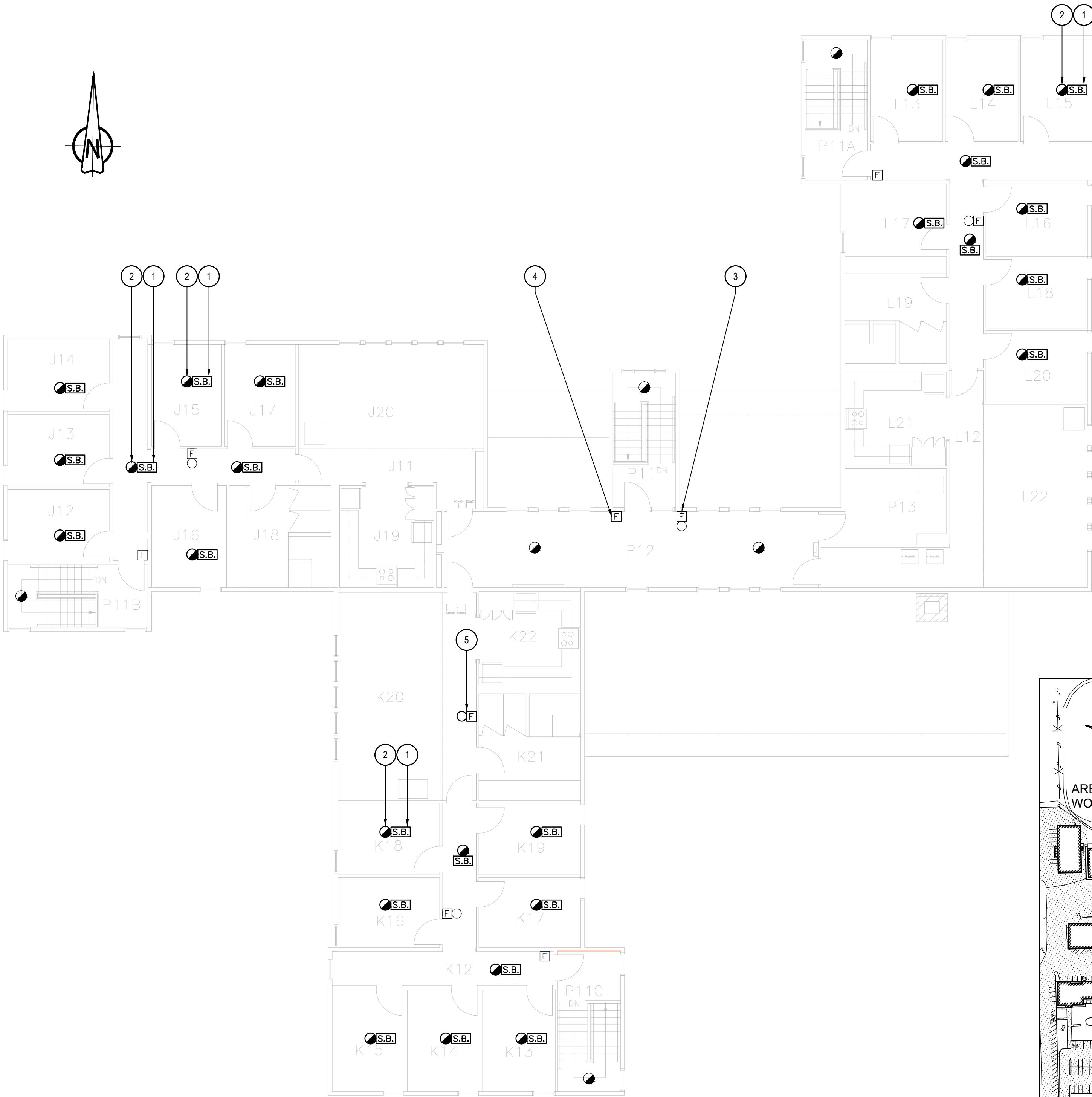
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC18 GROUND FLOOR J RANGE
ZONE 2	BUILDING BC18 GROUND FLOOR K RANGE
ZONE 3	BUILDING BC18 GROUND FLOOR L RANGE
ZONE 4	BUILDING BC18 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC18 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC18 2ND FLOOR J RANGE
ZONE 7	BUILDING BC18 2ND FLOOR L RANGE
ZONE 8	BUILDING BC18 2ND FLOOR K RANGE
ZONE 9	BUILDING BC18 DUCT DETECTORS
ZONE 10	BUILDING BC18 MAIN STAIRWELL
ZONE 11	BUILDING BC18 STAIRWELL L RANGE
ZONE 12	BUILDING BC18 STAIRWELL K RANGE
ZONE 13	BUILDING BC18 STAIRWELL J RANGE
ZONE 14	BUILDING BC18 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC18 MAIN SPRINKLER FLOW
ZONE 16	BUILDING BC18 GROUND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC18 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC018 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC18 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC18 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC18 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC18 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

## ROOM INDEX

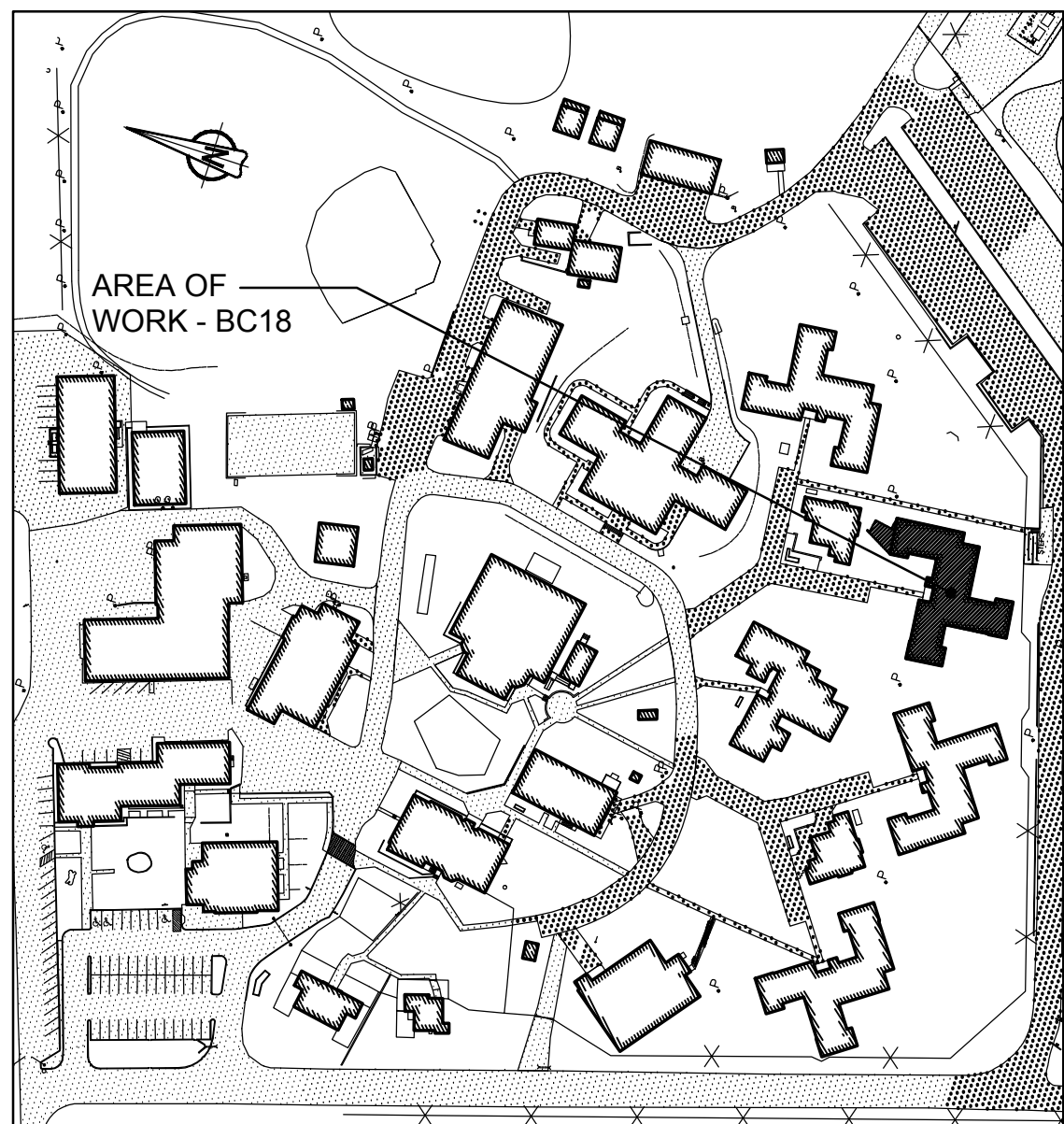
J11	CORRIDOR
J12	INMATE ROOM 7
J13	INMATE ROOM 8
J14	INMATE ROOM 9
J15	INMATE ROOM 10
J16	INMATE ROOM 11
J17	INMATE ROOM 12
J18	WASHROOM
J19	KITCHEN
J20	LIVING ROOM
K12	CORRIDOR
K13	INMATE ROOM 8
K14	INMATE ROOM 9
K15	INMATE ROOM 10
K16	INMATE ROOM 11
K17	INMATE ROOM 12
K18	INMATE ROOM 13
K19	INMATE ROOM 14
K20	LIVING ROOM
K21	WASHROOM
K22	KITCHEN
L12	CORRIDOR
L13	INMATE ROOM 8
L114	INMATE ROOM 9
L15	INMATE ROOM 10
L16	INMATE ROOM 11
L17	INMATE ROOM 12
L18	INMATE ROOM 13
L19	WASHROOM
L20	INMATE ROOM 14
L21	KITCHEN
L22	LIVING ROOM
P11	P RANGE STAIR
P11A	L RANGE STAIR
P11B	J RANGE STAIR
P11C	K RANGE STAIR
P12	CORRIDOR
P13	JANITOR ROOM

## SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.



2 SECOND FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC18 - ACCOMMODATION UNITS #4  
SCALE: 1:2000



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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

Do not scale drawings.  
Verify all dimensions and conditions on site and immediately  
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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title  
titre du projet  
Gravenhurst Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin  
FIRE ALARM  
BC18 - ACCOMMODATION  
UNIT #4  
SECOND FLOOR  
NEW LAYOUT

drawn by  
dessiné par  
D. GINGRAS/J.L.C/J.C/T.T

designed by  
conçu par  
MIKE XU

approved by  
approuvé par  
JEFFREY DUBEAU

bid  
offre  
G.G. project manager  
administrateur  
de projets

project date  
date du projet  
2018-01-19

project no.  
no. du projet  
R.080201.001

drawing no.  
dessiné no.  
BC18\_E203



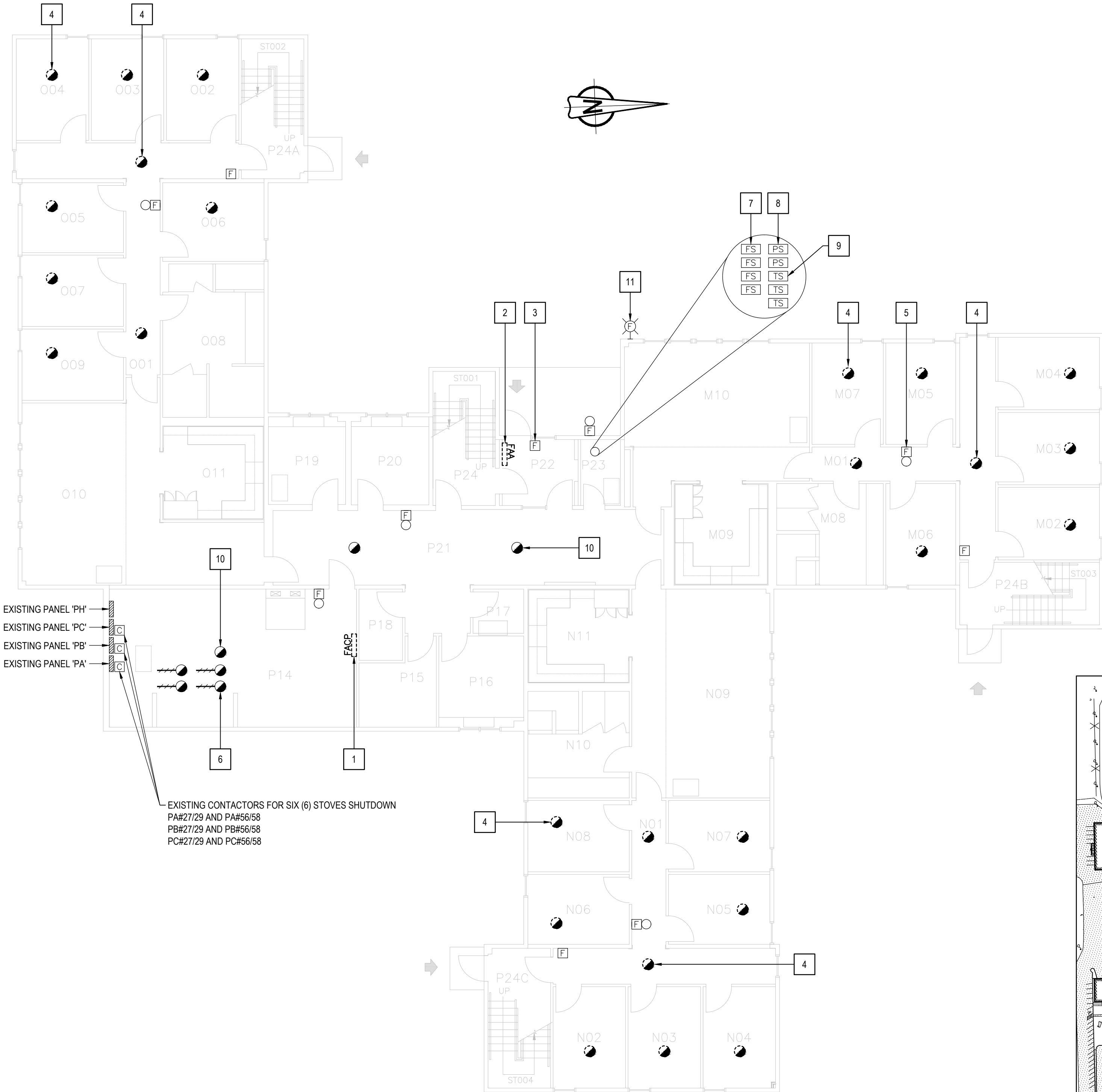
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3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
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5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	EXISTING FIRE ALARM ANNUNCIATOR PANEL TO BE REMOVED.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
4	TYPICAL OF TWENTY SIX (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE INMATE SLEEPING ROOM AND IN THE HALLWAY OUTSIDE INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
5	TYPICAL OF FIVE (5) EXISTING FIRE ALARM BELL TO REMAIN.
6	TYPICAL OF FOUR (4) EXISTING DUCT SMOKE DETECTOR TO REMAIN.

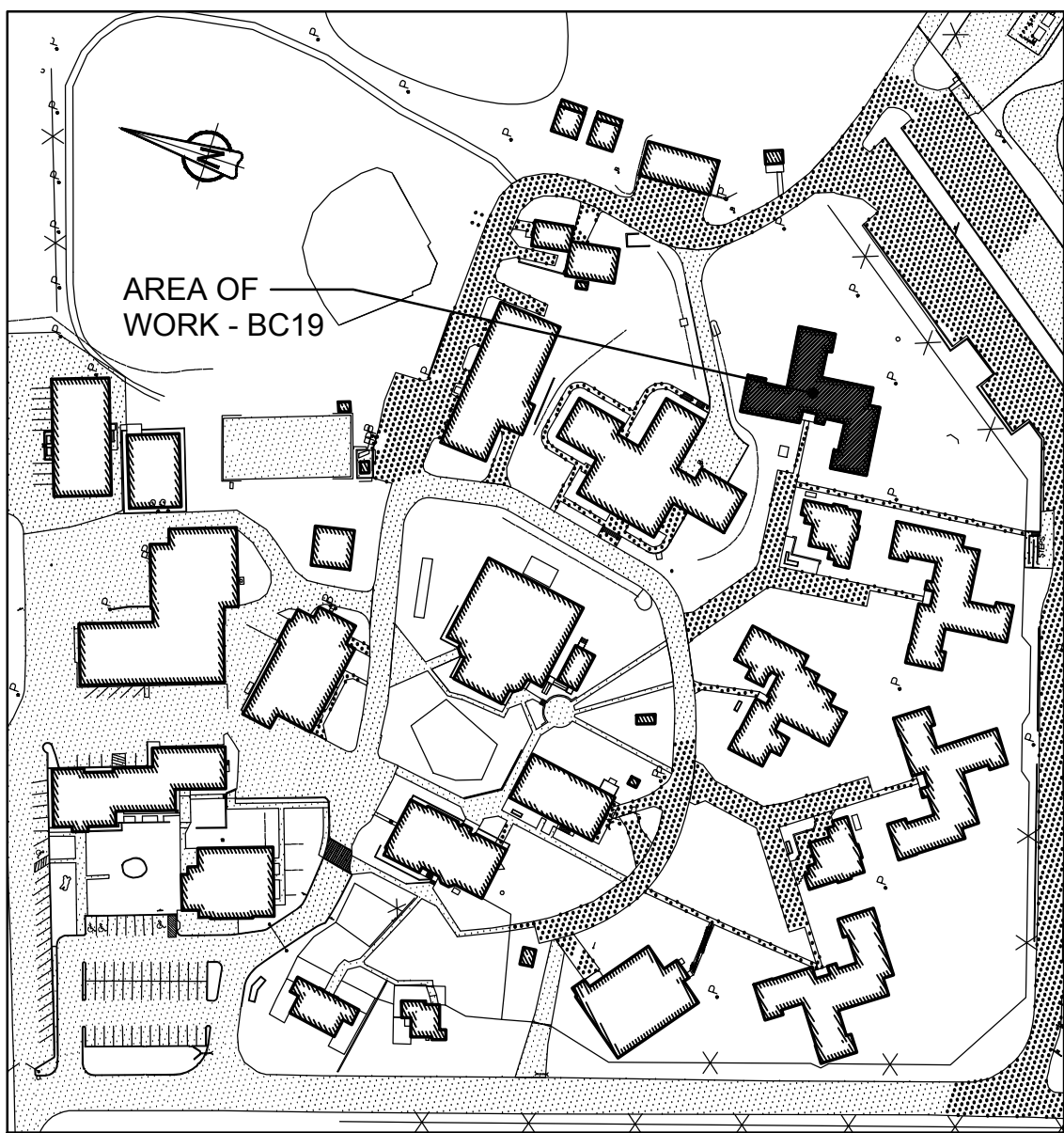
7	TYPICAL OF FOUR (4) EXISTING SPRINKLER FLOW SWITCH C/W MONITOR MODULE TO REMAIN.
8	TYPICAL OF TWO (2) EXISTING SPRINKLER PRESSURE SWITCH C/W MONITOR MODULE TO REMAIN.
9	TYPICAL OF THREE (3) EXISTING SPRINKLER TAMPER SWITCH C/W MONITOR MODULE TO REMAIN.
10	TYPICAL OF THREE (3) EXISTING FIRE ALARM SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.
11	EXISTING OUTDOOR FIRE ALARM STROBE TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC19 GROUND FLOOR M RANGE
ZONE 2	BUILDING BC19 GROUND FLOOR N RANGE
ZONE 3	BUILDING BC19 GROUND FLOOR O RANGE
ZONE 4	BUILDING BC19 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC19 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC19 2ND FLOOR M RANGE
ZONE 7	BUILDING BC19 2ND FLOOR N RANGE
ZONE 8	BUILDING BC19 2ND FLOOR O RANGE
ZONE 9	BUILDING BC19 DUCT DETECTORS
ZONE 10	BUILDING BC19 MAIN STAIRWELL
ZONE 11	BUILDING BC19 STAIRWELL M RANGE
ZONE 12	BUILDING BC19 STAIRWELL N RANGE
ZONE 13	BUILDING BC19 STAIRWELL O RANGE
ZONE 14	BUILDING BC19 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC19 GROUND FLOOR SPRINKLER FLOW
ZONE 16	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC19 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC019 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC19 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC19 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

ROOM INDEX	
M01	CORRIDOR
M02	INMATE ROOM 1
M03	INMATE ROOM 2
M04	INMATE ROOM 3
M05	INMATE ROOM 4
M06	INMATE ROOM 5
M07	INMATE ROOM 6
M08	WASHROOM
M09	KITCHEN
M10	LIVING ROOM
N01	CORRIDOR
N02	INMATE ROOM 1
N03	INMATE ROOM 2
N04	INMATE ROOM 3
N05	INMATE ROOM 4
N06	INMATE ROOM 5
N07	INMATE ROOM 6
N08	INMATE ROOM 7
N09	LIVING ROOM
N10	WASHROOM
N11	KITCHEN
O01	CORRIDOR
O02	INMATE ROOM 1
O03	INMATE ROOM 2
O04	INMATE ROOM 3
O05	INMATE ROOM 4
O06	INMATE ROOM 5
O07	INMATE ROOM 6
O08	WASHROOM
O09	INMATE ROOM 7
O10	LIVING ROOM
O11	KITCHEN
P14	MECHANICAL / ELECTRICAL ROOM
P15	STORAGE
P16	OFFICE
P17	STAFF WASHROOM
P18	BATHROOM / HANDICAPPED
P19	OFFICE
P20	OFFICE
P21	CORRIDOR
P22	VESTIBULE
P23	SPRINKLER ROOM
P24	P RANGE STAIR
P24A	O RANGE STAIR
P24B	M RANGE STAIR
P24C	N RANGE STAIR



2 GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC19 - ACCOMMODATION UNITS #5  
SCALE: 1:2000



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revision		date

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A	Detail No.
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project title  
titre du projet  
**Gravenhurst Ontario**  
**BEAVER CREEK INSTITUTION**  
**FIRE ALARM SYSTEM**  
**UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM**  
**BC19 - ACCOMMODATION**  
**UNIT #5**  
**GROUND FLOOR**  
**DEMOLITION LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C./J.C./T.T**

designed by  
conçu par  
**MIKE XU**

approved by  
approuvé par  
**JEFFREY DUBEAU**

bid  
offre  
**G.G.** project manager  
administrateur  
de projets

project date  
date du projet  
**2018-01-19**

project no.  
no. du projet  
**R.080201.001**

drawing no.  
dessiné no.  
**BC19\_E200**



GENERAL NOTES

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- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
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- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - DEMOLITION

- TYPICAL OF FOUR (4)  
EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF TWENTY SIX (26)  
EXISTING FIRE ALARM SMOKE DETECTOR INSIDE INMATE SLEEPING ROOM AND IN THE HALLWAY OUTSIDE INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
- TYPICAL OF FOUR (4)  
EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF SIX (6)  
EXISTING FIRE ALARM SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.

FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC19 GROUND FLOOR M RANGE
ZONE 2	BUILDING BC19 GROUND FLOOR N RANGE
ZONE 3	BUILDING BC19 GROUND FLOOR O RANGE
ZONE 4	BUILDING BC19 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC19 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC19 2ND FLOOR M RANGE
ZONE 7	BUILDING BC19 2ND FLOOR N RANGE
ZONE 8	BUILDING BC19 2ND FLOOR O RANGE
ZONE 9	BUILDING BC19 DUCT DETECTORS
ZONE 10	BUILDING BC19 MAIN STAIRWELL
ZONE 11	BUILDING BC19 STAIRWELL M RANGE
ZONE 12	BUILDING BC19 STAIRWELL N RANGE
ZONE 13	BUILDING BC19 STAIRWELL O RANGE
ZONE 14	BUILDING BC19 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC19 GROUND FLOOR SPRINKLER FLOW
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ROOM INDEX

M11	CORRIDOR
M12	INMATE ROOM 7
M13	INMATE ROOM 8
M14	INMATE ROOM 9
M15	INMATE ROOM 10
M16	INMATE ROOM 11
M17	INMATE ROOM 12
M18	WASHROOM
M19	LIVING ROOM
M20	KTICHEN
N12	CORRIDOR
N13	INMATE ROOM 8
N14	INMATE ROOM 9
N15	INMATE ROOM 10
N16	INMATE ROOM 11
N17	INMATE ROOM 12
N18	INMATE ROOM 13
N19	INMATE ROOM 14
N20	LIVING ROOM
N21	WASHROOM
N22	KITCHEN
O12	CORRIDOR
O13	INMATE ROOM 8
O14	INMATE ROOM 9
O15	INMATE ROOM 10
O16	INMATE ROOM 11
O17	INMATE ROOM 12
O18	INMATE ROOM 13
O19	WASHROOM
O20	INMATE ROOM 14
O21	KITCHEN
O22	LIVING ROOM
P24	P RANGE STAIR
P24A	O RANGE STAIR
P24B	M RANGE STAIR
P24C	N RANGE STAIR
P25	CORRIDOR
P26	JANITOR ROOM



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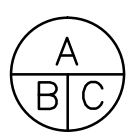


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No. du détail  
B drawing no. - where detail required  
dessin no. - où détail exigé  
C drawing no. - where detailed  
dessin no. - où détaillé

project title  
titre du projet

Gravenhurst Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin  
FIRE ALARM  
BC19 - ACCOMMODATION  
UNIT #5  
SECOND FLOOR  
DEMOLITION LAYOUT

drawn by  
dessiné par D. GINGRAS/J.L.C/J.C/T.T

designed by  
conç par MIKE XU

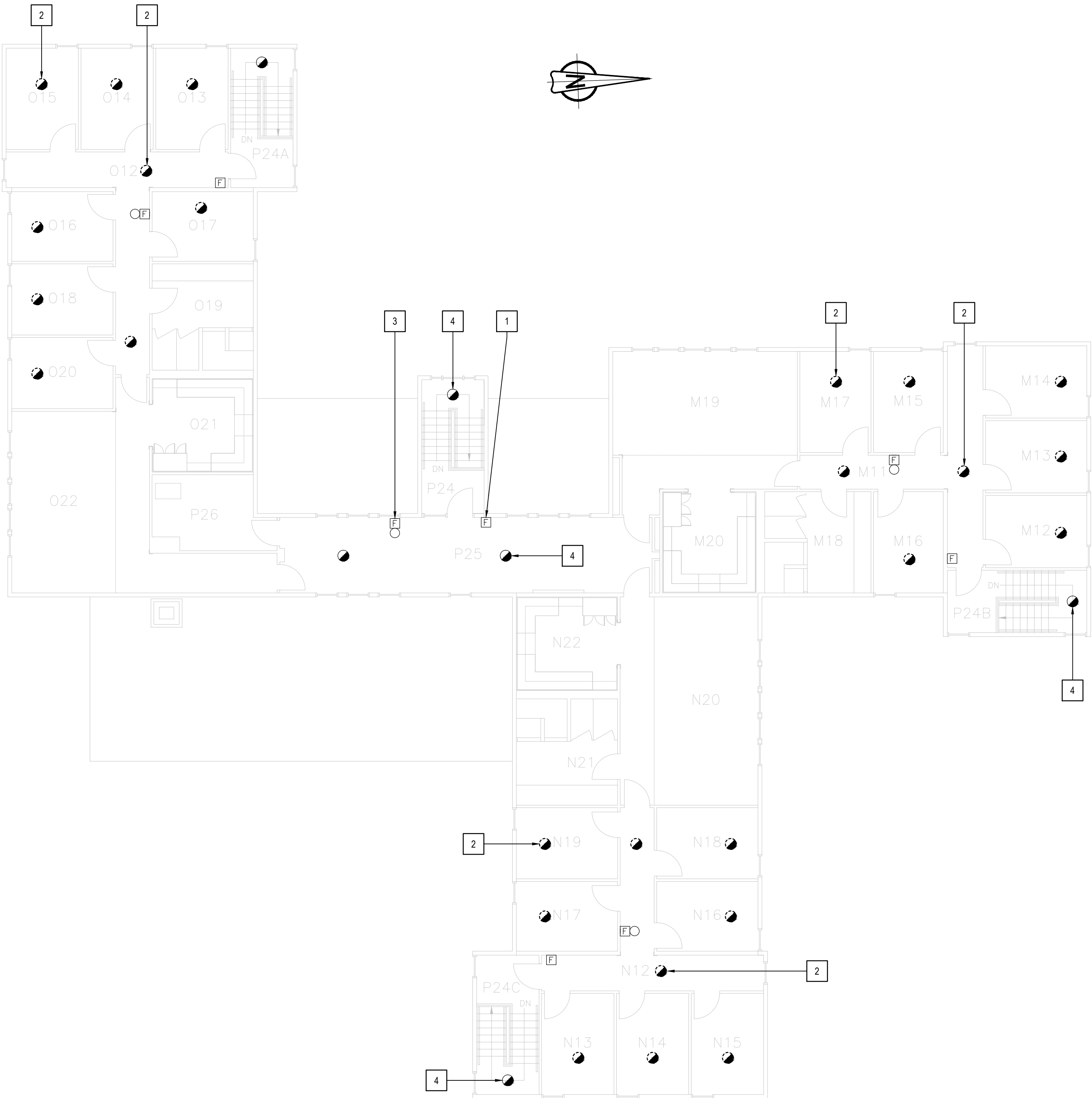
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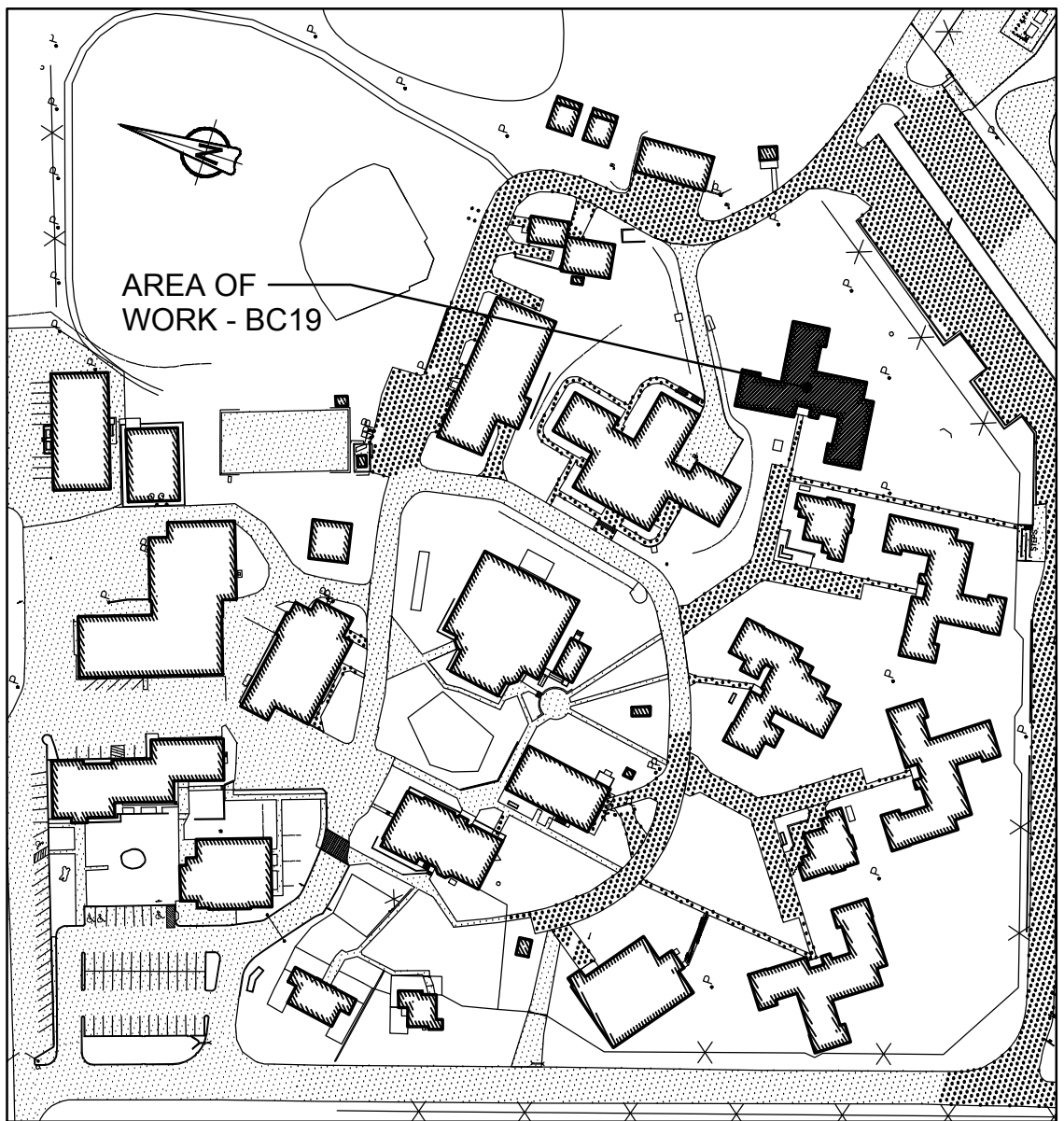
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project no.  
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drawing no.  
dessiné no. BC19\_E201



2 SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC19 - ACCOMMODATION UNITS #5  
SCALE: 1:2000



## GENERAL NOTES

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- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

## DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES. SPRINKLERED BUILDING. INSTALL CONTROL PANEL AT EXISTING LOCATION AND WIRE BACK ALL EXISTING CIRCUITS. CONNECT EXISTING PULLED FIBER OPTIC CABLE AND WIRE TO FIRE OPTIC INTERFACE CARD IN THE FIRE ALARM CONTROL PANEL. PROVIDE FIRE ALARM VERIFICATION REPORT.
- NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL C/W DISPLAY MODULES TO BE MOUNTED AT EXISTING LOCATION. PREPARE WALL TO FIT NEW PANEL.
- TYPICAL OF TWO (2)  
PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS# BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FA CONTROL PANEL. PROVIDE 120V AC POWER TO BOOSTER POWER SUPPLY FROM EXISTING FA CONTROL PANEL 120V POWER SOURCE. FOUR (4) CIRCUITS PER BOOSTER.
- TYPICAL OF TWENTY SIX (26)  
PROVIDE NEW FIRE ALARM SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUITS). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E201 FOR DETAIL.

- TYPICAL OF TWENTY SIX (26)  
EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- TYPICAL OF FOUR (4)  
EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF FIVE (5)  
EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF FOUR (4)  
EXISTING DUCT SMOKE DETECTOR TO REMAIN.
- TYPICAL OF FOUR (4)  
EXISTING SPRINKLER FLOW SWITCH C/W MONITOR MODULE TO REMAIN.
- TYPICAL OF TWO (2)  
EXISTING SPRINKLER PRESSURE SWITCH C/W MONITOR MODULE TO REMAIN.
- TYPICAL OF THREE (3)  
EXISTING SPRINKLER TAMPER SWITCH C/W MONITOR MODULE TO REMAIN.
- TYPICAL OF SIX (6)  
PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

## FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC19 GROUND FLOOR M RANGE
ZONE 2	BUILDING BC19 GROUND FLOOR N RANGE
ZONE 3	BUILDING BC19 GROUND FLOOR O RANGE
ZONE 4	BUILDING BC19 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC19 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC19 2ND FLOOR M RANGE
ZONE 7	BUILDING BC19 2ND FLOOR N RANGE
ZONE 8	BUILDING BC19 2ND FLOOR O RANGE
ZONE 9	BUILDING BC19 DUCT DETECTORS
ZONE 10	BUILDING BC19 MAIN STAIRWELL
ZONE 11	BUILDING BC19 STAIRWELL M RANGE
ZONE 12	BUILDING BC19 STAIRWELL N RANGE
ZONE 13	BUILDING BC19 STAIRWELL O RANGE
ZONE 14	BUILDING BC19 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC19 GROUND FLOOR SPRINKLER FLOW
ZONE 16	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC19 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC019 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC19 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC19 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

## ROOM INDEX

M01	CORRIDOR
M02	INMATE ROOM 1
M03	INMATE ROOM 2
M04	INMATE ROOM 3
M05	INMATE ROOM 4
M06	INMATE ROOM 5
M07	INMATE ROOM 6
M08	WASHROOM
M09	KITCHEN
M10	LIVING ROOM
N01	CORRIDOR
N02	INMATE ROOM 1
N03	INMATE ROOM 2
N04	INMATE ROOM 3
N05	INMATE ROOM 4
N06	INMATE ROOM 5
N07	INMATE ROOM 6
N08	INMATE ROOM 7
N09	LIVING ROOM
N10	WASHROOM
N11	KITCHEN
O01	CORRIDOR
O02	INMATE ROOM 1
O03	INMATE ROOM 2
O04	INMATE ROOM 3
O05	INMATE ROOM 4
O06	INMATE ROOM 5
O07	INMATE ROOM 6
O08	WASHROOM
O09	INMATE ROOM 7
O10	LIVING ROOM
O11	KITCHEN
P14	MECHANICAL / ELECTRICAL ROOM
P15	STORAGE
P16	OFFICE
P17	STAFF WASHROOM
P18	BATHROOM / HANDICAPPED
P19	OFFICE
P20	OFFICE
P21	CORRIDOR
P22	VESTIBULE
P23	SPRINKLER ROOM
P24	P RANGE STAIR
P24A	O RANGE STAIR
P24B	M RANGE STAIR
P24C	N RANGE STAIR



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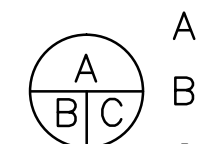
Stantec Consulting Ltd.  
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Ottawa, ON K2C 3G4  
Tel: (613) 722-4420 / Fax: (613) 722-2799  
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02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31

revision	date
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dessin no. - où détaillé

project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC19 - ACCOMMODATION  
UNIT #5  
GROUND FLOOR  
NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conç par **MIKE XU**

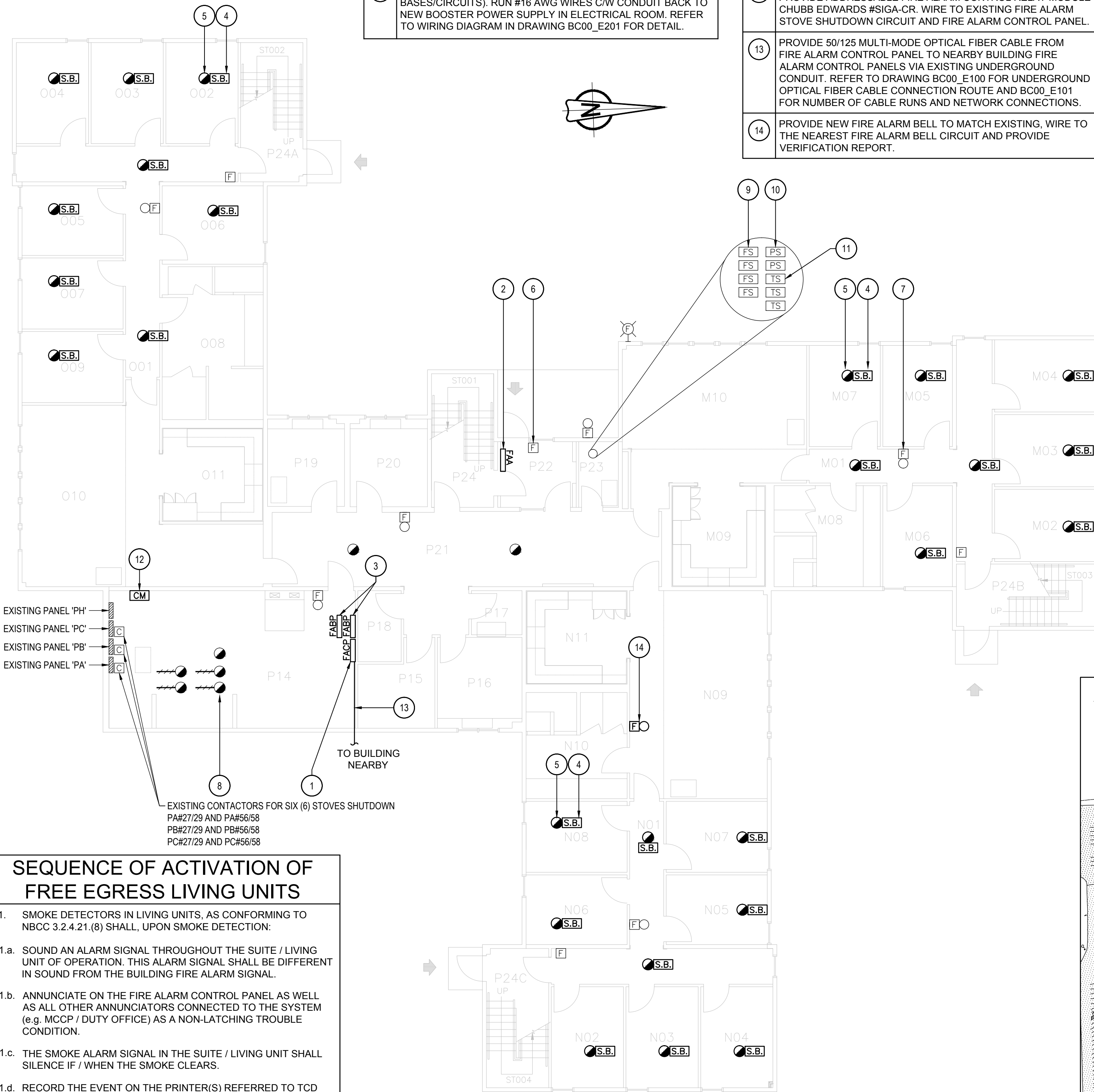
approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur  
de projets

project date  
date du projet **2018-01-19**

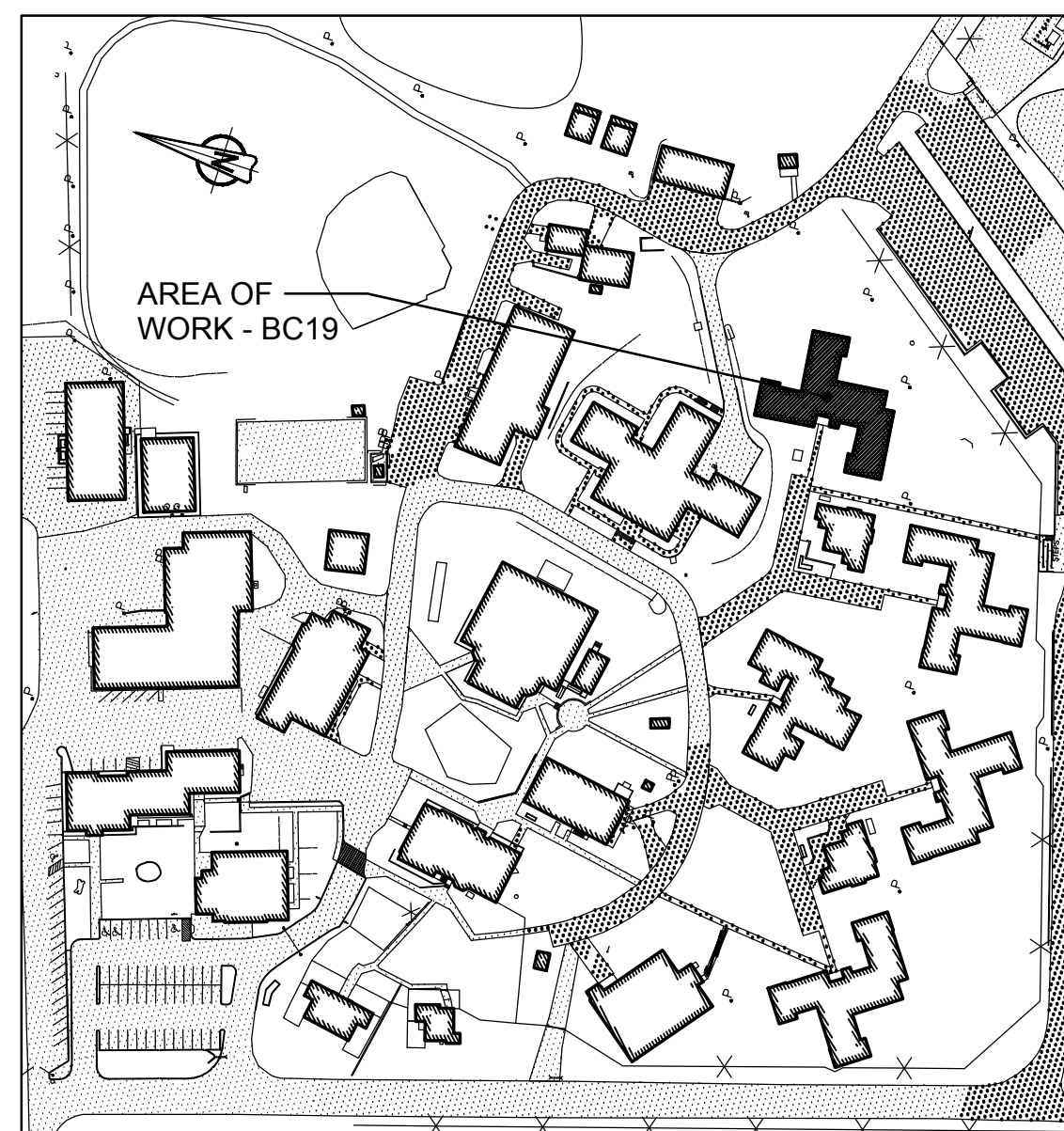
project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC19\_E202**

SEQUENCE OF ACTIVATION OF  
FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

**2 GROUND FLOOR - NEW LAYOUT**  
SCALE: 1:100



**1 KEY PLAN  
BUILDING BC19 - ACCOMMODATION UNITS #5**  
SCALE: 1:2000



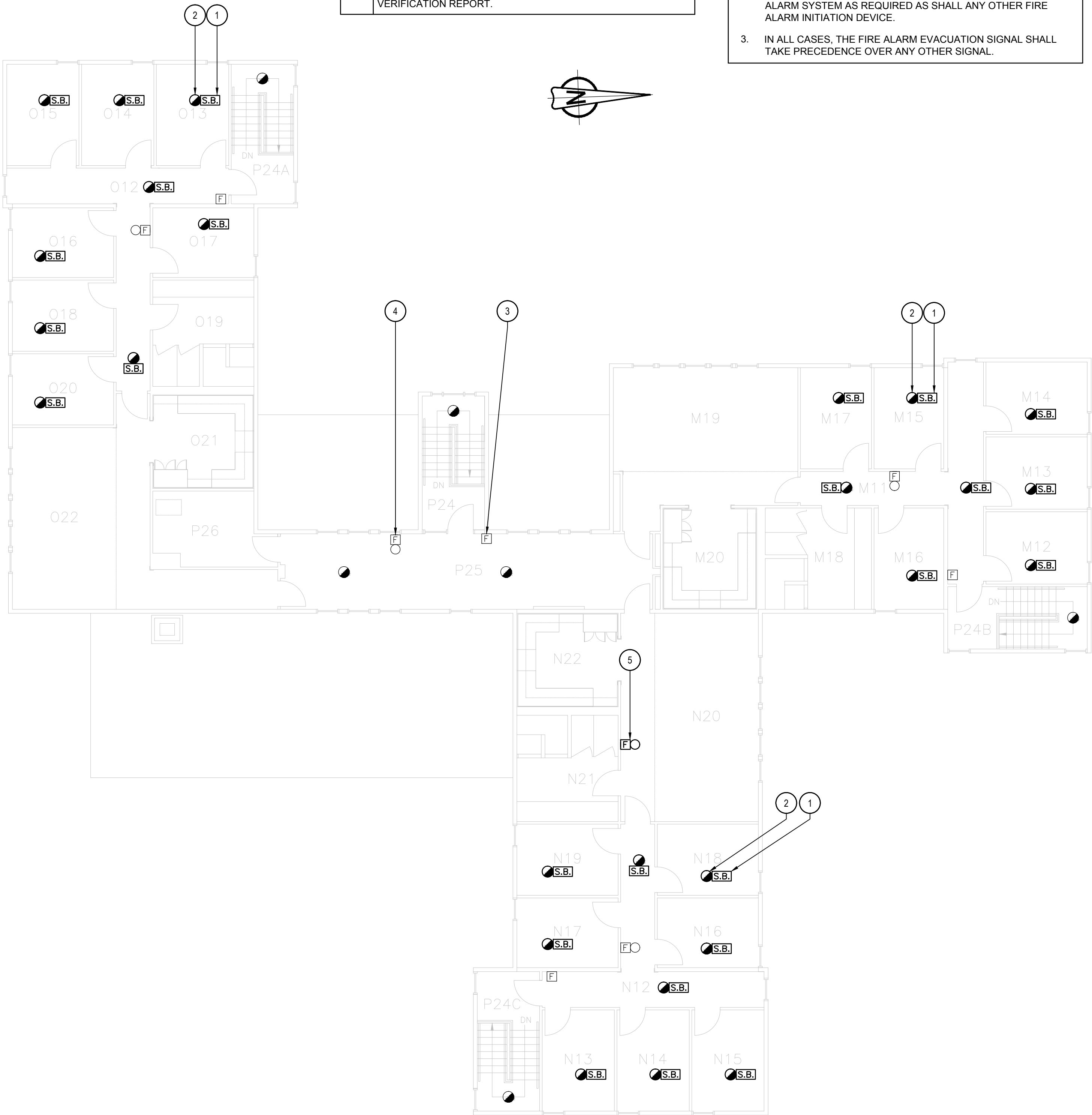
GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.

DRAWING NOTES - NEW	
1	TYPICAL OF TWENTY SIX (26) PROVIDE NEW FIRE ALARM SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAIL.
2	TYPICAL OF TWENTY SIX (26) EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
4	TYPICAL OF FOUR (4) EXISTING FIRE ALARM BELL TO REMAIN.
5	PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

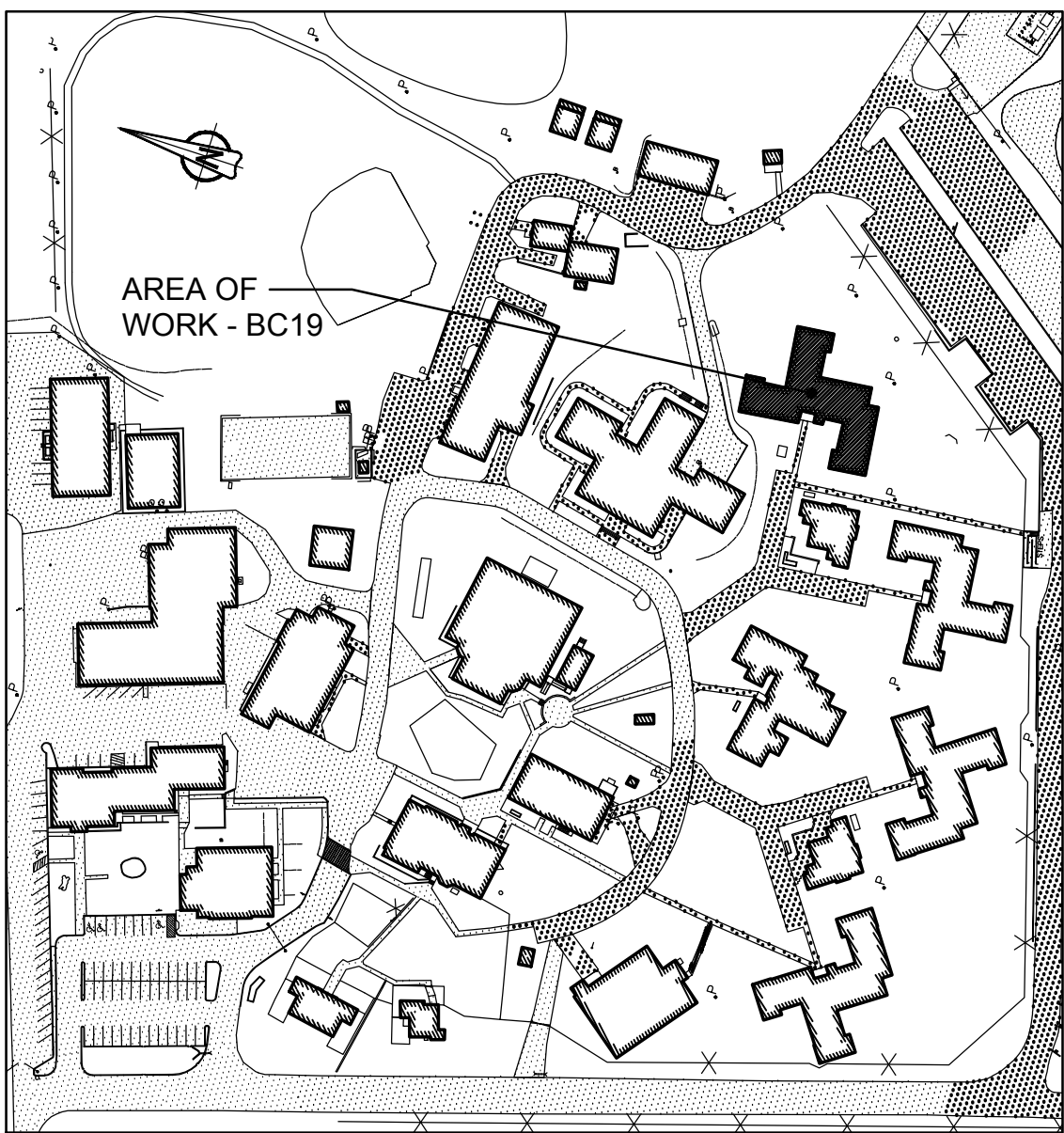
SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS	
1.	SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
1.a.	SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
1.b.	ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
1.c.	THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
1.d.	RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
2.	SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
3.	IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC19 GROUND FLOOR M RANGE
ZONE 2	BUILDING BC19 GROUND FLOOR N RANGE
ZONE 3	BUILDING BC19 GROUND FLOOR O RANGE
ZONE 4	BUILDING BC19 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC19 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC19 2ND FLOOR M RANGE
ZONE 7	BUILDING BC19 2ND FLOOR N RANGE
ZONE 8	BUILDING BC19 2ND FLOOR O RANGE
ZONE 9	BUILDING BC19 DUCT DETECTORS
ZONE 10	BUILDING BC19 MAIN STAIRWELL
ZONE 11	BUILDING BC19 STAIRWELL M RANGE
ZONE 12	BUILDING BC19 STAIRWELL N RANGE
ZONE 13	BUILDING BC19 STAIRWELL O RANGE
ZONE 14	BUILDING BC19 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC19 GROUND FLOOR SPRINKLER FLOW
ZONE 16	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC19 2ND FLOOR SPRINKLER FLOW
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ZONE 18	BUILDING BC019 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC19 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC19 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC19 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

ROOM INDEX	
M11	CORRIDOR
M12	INMATE ROOM 7
M13	INMATE ROOM 8
M14	INMATE ROOM 9
M15	INMATE ROOM 10
M16	INMATE ROOM 11
M17	INMATE ROOM 12
M18	WASHROOM
M19	LIVING ROOM
M20	KTICHEN
N12	CORRIDOR
N13	INMATE ROOM 8
N14	INMATE ROOM 9
N15	INMATE ROOM 10
N16	INMATE ROOM 11
N17	INMATE ROOM 12
N18	INMATE ROOM 13
N19	INMATE ROOM 14
N20	LIVING ROOM
N21	WASHROOM
N22	KITCHEN
O12	CORRIDOR
O13	INMATE ROOM 8
O14	INMATE ROOM 9
O15	INMATE ROOM 10
O16	INMATE ROOM 11
O17	INMATE ROOM 12
O18	INMATE ROOM 13
O19	WASHROOM
O20	INMATE ROOM 14
O21	KITCHEN
O22	LIVING ROOM
P24	P RANGE STAIR
P24A	O RANGE STAIR
P24B	M RANGE STAIR
P24C	N RANGE STAIR
P25	CORRIDOR
P26	JANITOR ROOM



2 SECOND FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC19 - ACCOMMODATION UNITS #5  
SCALE: 1:2000



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02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

Do not scale drawings.  
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C	drawing no. - where detailed dessin no. - où détaillé

project title  
titre du projet  
**Gravenhurst Ontario**  
**BEAVER CREEK INSTITUTION**  
**FIRE ALARM SYSTEM**  
**UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM**  
**BC19 - ACCOMMODATION**  
**UNIT #5**  
**SECOND FLOOR**  
**NEW LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conç par  
**MIKE XU**

approved by  
approuvé par  
**JEFFREY DUBEAU**

bid  
offre  
**G.G.** project manager  
administrateur  
de projets

project date  
date du projet  
**2018-01-19**

project no.  
no. du projet  
**R.080201.001**

drawing no.  
dessiné no.  
**BC19\_E203**





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2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF THREE (3) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3	TYPICAL OF NINE (9) EXISTING FIRE ALARM HEAT DETECTOR TO REMAIN.
4	TYPICAL OF TWO (2) EXISTING FIRE ALARM BELL TO REMAIN.
5	EXISTING SMOKE ALARM TO BE REMOVED.
6	EXISTING EXTERIOR FIRE ALARM STROBE TO REMAIN.

1	NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE, SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, NON-SPRINKLERED BUILDING, PROVIDE FIRE ALARM VERIFICATION REPORT, PREPARE WALL TO FIT NEW PANEL.
2	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT, RUN TO DRAWING BC00, E-100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00, E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
3	TYPICAL OF TWO (2) PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AS SHOWN AND WIRE TO EXISTING INITIATING FIRE ALARM CIRCUIT. PROVIDE NEW WIRES C/W CONDUIT AS REQUIRED. PROVIDE VERIFICATION REPORT.
4	TYPICAL OF TWO (2): PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM FURNACE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.

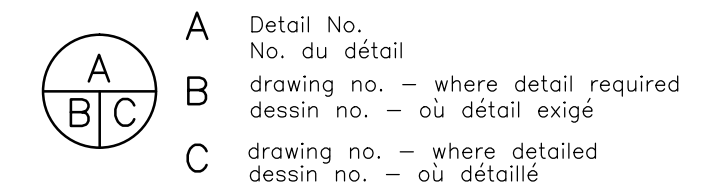
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC20 GROUND FLOOR

101	VESTIBULE
102	LAUNDRY
103	STORAGE / JANITOR
104	WASHROOM / HANDICAPPED
105	UNIT MANAGER
106	WORKING STATION
107	SUPERVISOR
108	SMALL GROUP MEETING
109	MECHANICAL
110	VESTIBULE
111	CORRIDOR
112	COMMON ROOM
113	CORRIDOR



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revision		date

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project title titre du projet <b>Gravenhurst</b>	<b>Ontario</b>
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BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE — PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC20 - NEIGHBORHOOD  
BUILDING #2  
GROUND FLOOR  
DEMOLITION & NEW LAYOUT

drawn by  
dessine par

designed by  
conc par

approved by  
approuvé par **JEFFREY DUBEAU**

bid		project manager
offre	G.G.	administrateur de projets

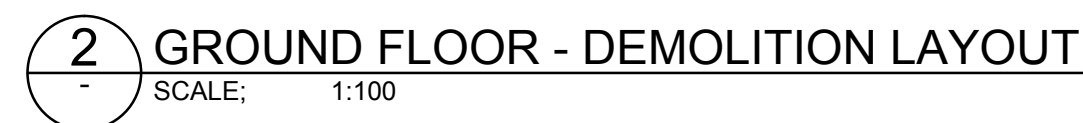
project date date du projet	2018-01-19
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project no. no. du projet	R.080201.001
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drawing no.  
dessine no.

BC20\_E200





- | GENERAL NOTES |  |
|---------------|--|
| 1.            | LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE. |
| 2.            | CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.   |
| 3.            | ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.  |
| 4.            | REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.  |
| 5.            | TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.   |

1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST. QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF THREE (3) EXISTING FIRE ALARM PULL STATION TO REMAIN.
3	TYPICAL OF EIGHT (8) EXISTING FIRE ALARM HEAT DETECTOR TO REMAIN.
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1	NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, UN-SPRINKLERED BUILDING. PROVIDE FIRE ALARM VERIFICATION REPORT. PREPARE WALL TO FIT NEW PANEL.
2	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC23 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00, E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00, E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
3	TYPICAL OF TWO (2) PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AND WIRE TO EXISTING INITIATING FIRE ALARM CIRCUIT. PROVIDE WIRES C/W CONDUIT AS REQUIRED. PROVIDE VERIFICATION REPORT.
4	TYPICAL OF TWO (2): PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM FURNACE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.

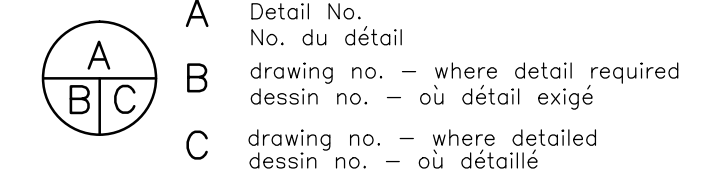
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC23 GROUND FLOOR

ROOM INDEX	
101	VESTIBULE
102	LAUNDRY
103	STORAGE / JANITOR
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project title titre du projet <b>Gravenhurst</b>	<b>Ontario</b>
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BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE — PHASE II

drawing title  
titre du dessin

**FIRE ALARM  
BC23 — NEIGHBORHOOD  
BUILDING #1  
GROUND FLOOR  
DEMOLITION & NEW LAYOUT**

drawn by  
dessine par

designed by  
conc par

approved by  
approuvé par **JEFFREY DUBEAU**

bid		project manager
offre	G.G.	administrateur de projets

project date date du projet	2018-01-19
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project no.  
no. du projet

R.080201.001

drawing no.  
dessine no.

BC23\_E200



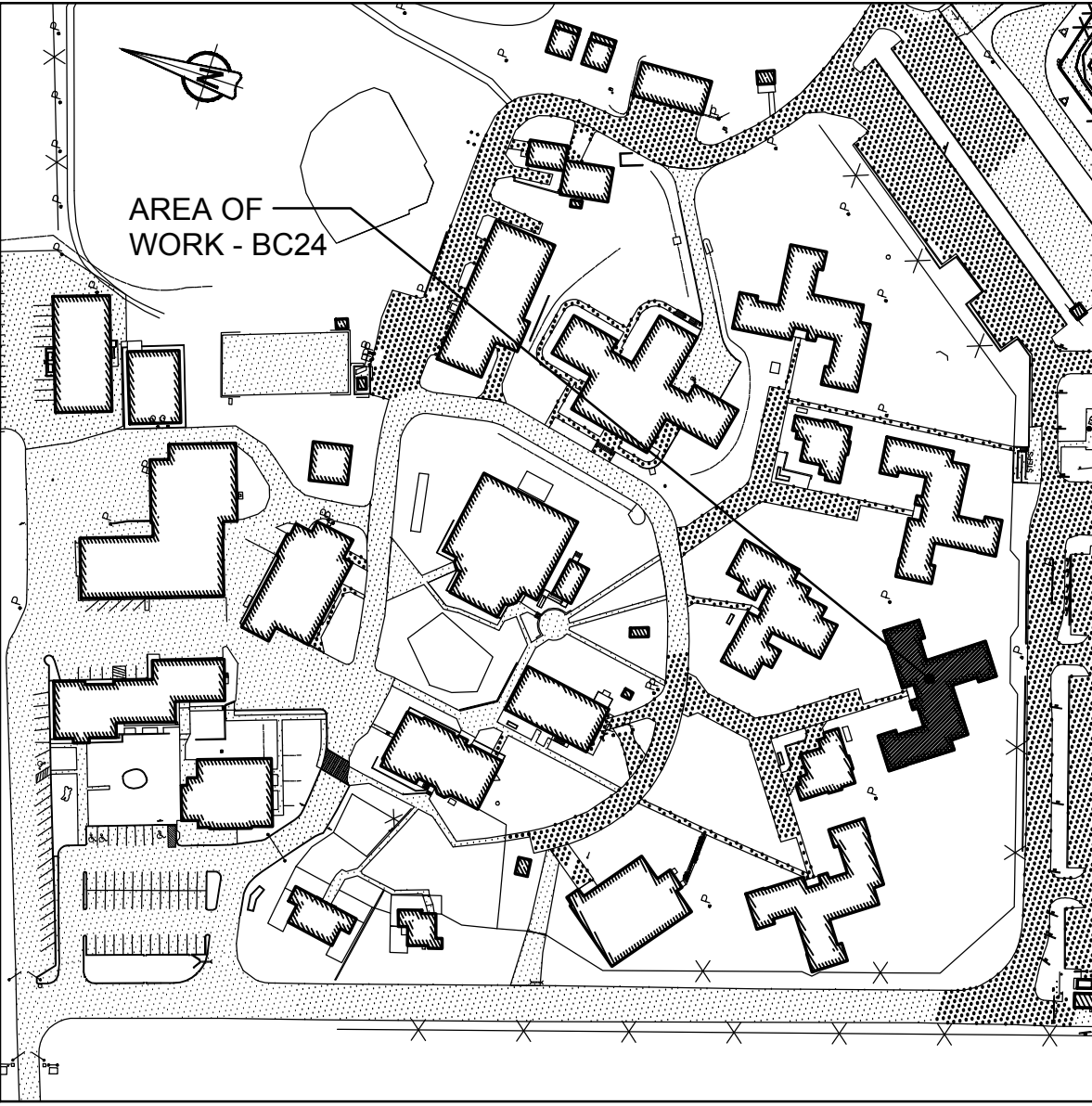
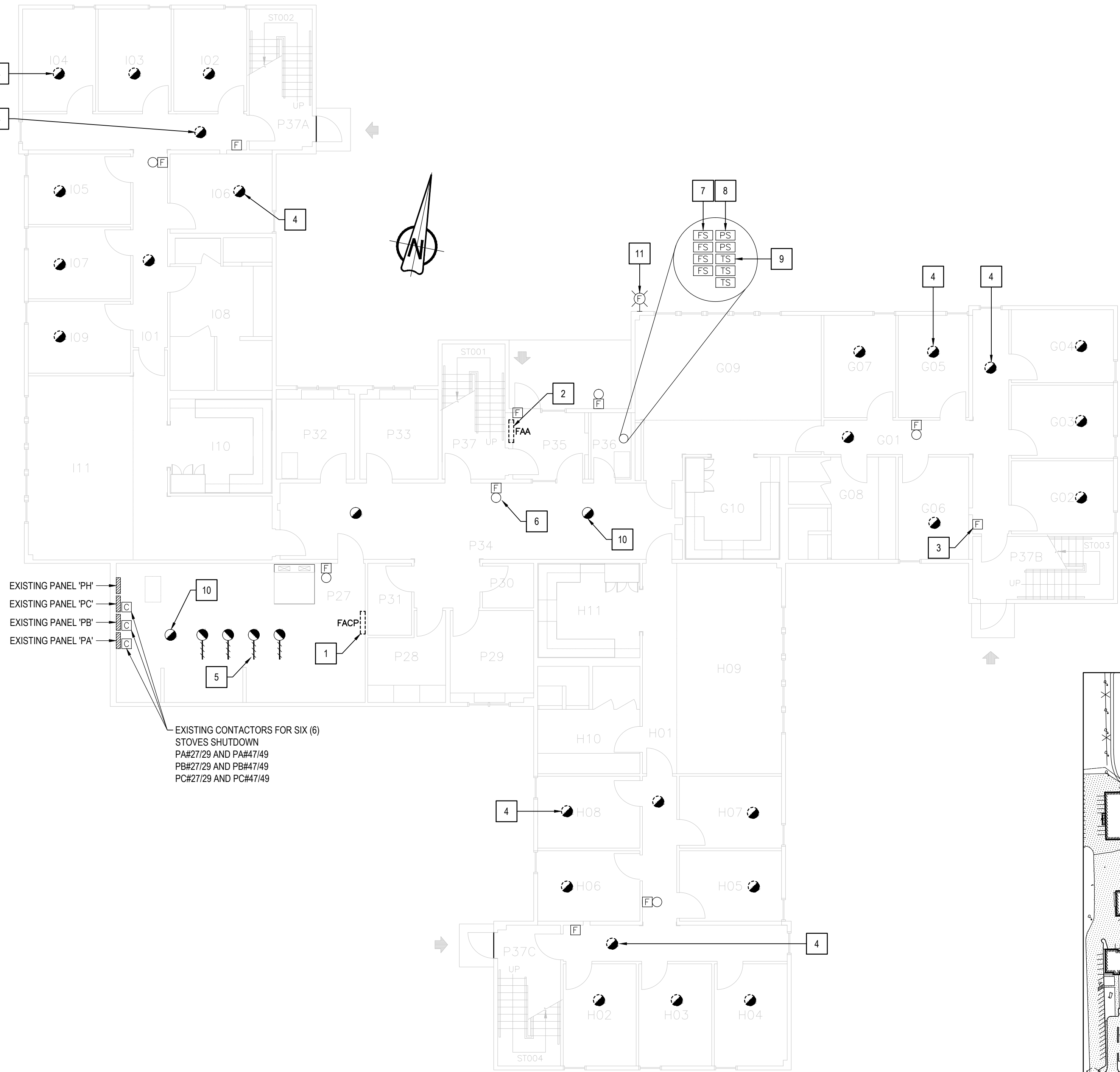
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2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	EXISTING FIRE ALARM ANNUNCIATOR TO BE REMOVED.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
4	TYPICAL OF TWENTY SIX (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
5	TYPICAL OF FOUR (4) EXISTING FIRE ALARM DUCT TYPE SMOKE DETECTOR TO REMAIN.

6	TYPICAL OF SIX (6) EXISTING FIRE ALARM BELL TO REMAIN.
7	TYPICAL OF FOUR (4) EXISTING FIRE ALARM FLOW SWITCH TO REMAIN.
8	TYPICAL OF TWO (2) EXISTING FIRE ALARM PRESSURE SWITCH TO REMAIN.
9	TYPICAL OF THREE (3) EXISTING FIRE ALARM TAMPER SWITCH TO REMAIN.
10	TYPICAL OF THREE (3) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.
11	EXISTING EXTERIOR FIRE ALARM STROBE TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC24 GROUND FLOOR H RANGE
ZONE 2	BUILDING BC24 GROUND FLOOR G RANGE
ZONE 3	BUILDING BC24 GROUND FLOOR I RANGE
ZONE 4	BUILDING BC24 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC24 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC24 2ND FLOOR H RANGE
ZONE 7	BUILDING BC24 2ND FLOOR G RANGE
ZONE 8	BUILDING BC24 2ND FLOOR I RANGE
ZONE 9	BUILDING BC24 DUCT DETECTORS
ZONE 10	BUILDING BC24 MAIN STAIRWELL
ZONE 11	BUILDING BC24 STAIRWELL H RANGE
ZONE 12	BUILDING BC24 STAIRWELL G RANGE
ZONE 13	BUILDING BC24 STAIRWELL I RANGE
ZONE 14	BUILDING BC24 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC24 GROUND FLOOR SPRINKLER FLOW
ZONE 16	BUILDING BC24 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC24 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC24 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC24 ATTIC SPRINKLER VALVE
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ROOM INDEX	
G01	CORRIDOR
G02	INMATE ROOM 1
G03	INMATE ROOM 2
G04	INMATE ROOM 3
G05	INMATE ROOM 4
G06	INMATE ROOM 5
G07	INMATE ROOM 6
G08	WASHROOM
G09	LIVING ROOM
G10	KITCHEN
H01	CORRIDOR
H02	INMATE ROOM 1
H03	INMATE ROOM 2
H04	INMATE ROOM 3
H05	INMATE ROOM 5
H06	INMATE ROOM 4
H07	INMATE ROOM 7
H08	INMATE ROOM 6
H09	LIVING ROOM
H10	WASHROOM
H11	KITCHEN
I01	CORRIDOR
I02	INMATE ROOM 1
I03	INMATE ROOM 2
I04	INMATE ROOM 3
I05	INMATE ROOM 4
I06	INMATE ROOM 5
I07	INMATE ROOM 6
I08	WASHROOM
I09	INMATE ROOM 7
I10	KITCHEN
I11	LIVING ROOM
P27	MECHANICAL / ELECTRICAL ROOM
P28	JANITOR
P29	OFFICE
P30	WASHROOM
P31	BATHROOM
P32	OFFICE
P33	OFFICE
P34	CORRIDOR
P35	VESTIBULE
P36	SPRINKLER ROOM
P37	P RANGE STAIR
P37A	I RANGE STAIR
P37B	G RANGE STAIR
P37C	H RANGE STAIR



2 GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100

1 KEY PLAN  
BUILDING BC24 - ACCOMMODATION UNITS #3  
SCALE: 1:2000

05	ISSUED FOR TENDER & PERMIT	2018-01-19
04	ISSUED FOR 100% REVIEW	2017-11-16
03	ISSUED FOR 99% REVIEW	2017-07-14
02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title  
titre du projet  
Gravenhurst Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin  
FIRE ALARM  
BC24 - ACCOMMODATION  
UNIT #3  
GROUND FLOOR  
DEMOLITION LAYOUT

drawn by  
dessiné par  
D. GINGRAS/J.L.C./J.C./T.T.

designed by  
conçu par  
MIKE XU

approved by  
approuvé par  
JEFFREY DUBEAU

bid  
offre  
G.G. project manager  
administrateur de projets

project date  
date du projet  
2018-01-19

project no.  
no. du projet  
R.080201.001

drawing no.  
dessiné no.  
BC24\_E200

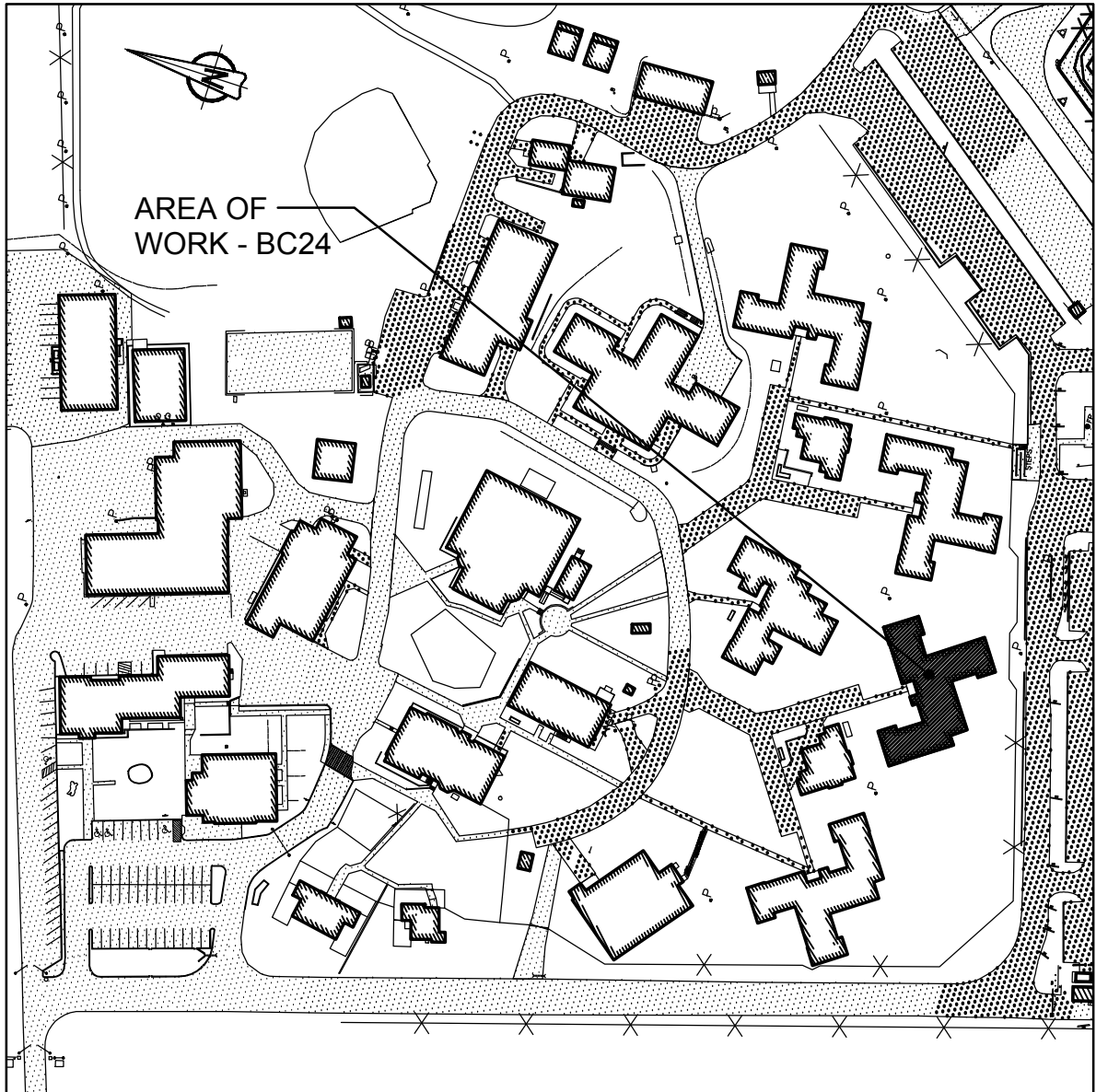
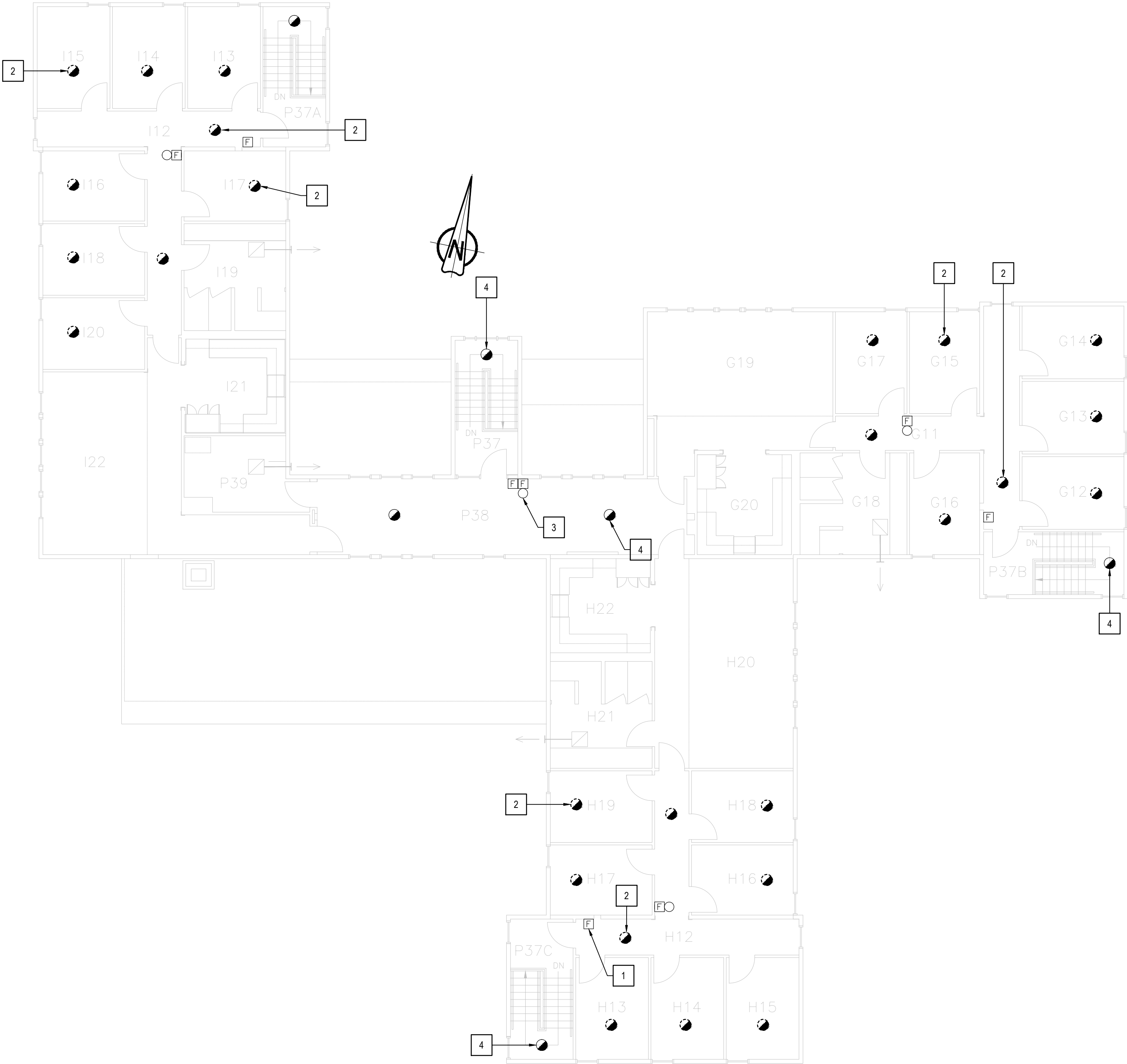


GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION	
1	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
2	TYPICAL OF TWENTY SIX (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM BELL TO REMAIN.
4	TYPICAL OF SIX (6) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC24 GROUND FLOOR H RANGE
ZONE 2	BUILDING BC24 GROUND FLOOR G RANGE
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ZONE 5	BUILDING BC24 2ND FLOOR CORRIDOR
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ROOM INDEX	
G11	CORRIDOR
G12	INMATE ROOM 7
G13	INMATE ROOM 8
G14	INMATE ROOM 9
G15	INMATE ROOM 10
G16	INMATE ROOM 11
G17	INMATE ROOM 12
G18	WASHROOM
G19	LIVING ROOM
G20	KITCHEN
H12	CORRIDOR
H13	INMATE ROOM 8
H14	INMATE ROOM 9
H15	INMATE ROOM 10
H16	INMATE ROOM 11
H17	INMATE ROOM 12
H18	INMATE ROOM 13
H19	INMATE ROOM 14
H20	LIVING ROOM
H21	WASHROOM
H22	KITCHEN
I12	CORRIDOR
I13	INMATE ROOM 8
I14	INMATE ROOM 9
I15	INMATE ROOM 10
I16	INMATE ROOM 11
I17	INMATE ROOM 12
I18	INMATE ROOM 13
I19	WASHROOM
I20	INMATE ROOM 14
I21	KITCHEN
I22	LIVING ROOM
P37	P RANGE STAIR
P37A	I RANGE STAIR
P37B	G RANGE STAIR
P37C	H RANGE STAIR
P38	CORRIDOR
P39	JANITOR



KEY PLAN  
1 BUILDING BC24 - ACCOMMODATION UNITS #3  
SCALE: 1:2000

2 SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC24 - ACCOMMODATION UNIT #3 SECOND FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.	
designed by conç par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC24_E201	



### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULES. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES. SPRINKLERED BUILDING. INSTALL CONTROL PANEL AT ORIGINAL LOCATION AND WIRE BACK EXISTING CIRCUITS. PROVIDE FIRE ALARM VERIFICATION REPORT.
- NEW FIRE ALARM REMOTE ANNUNCIATOR PANEL C/W DISPLAY MODULES TO BE MOUNTED AT EXISTING LOCATION. PREPARE WALL TO FIT NEW PANEL.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC24 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- TYPICAL OF TWO (2)  
PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS# BPS10ACFOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FA CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FA CONTROL PANEL 120V POWER SOURCE. FOUR (4) CIRCUITS PER BOOSTER.

- TYPICAL OF TWENTY SIX (26)  
PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E201 FOR DETAILS.
- TYPICAL OF TWENTY SIX (26)  
EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- PROVIDE NEW ADDRESSABLE HEAT DETECTOR IN SPRINKLER ROOM AND WIRE TO EXISTING SMOKE DETECTOR CIRCUIT. PROVIDE VERIFICATION REPORT.
- PROVIDE SIX (6) ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS#SIGA-CR. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

### FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC24 GROUND FLOOR H RANGE
ZONE 2	BUILDING BC24 GROUND FLOOR G RANGE
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### ROOM INDEX

G01	CORRIDOR
G02	INMATE ROOM 1
G03	INMATE ROOM 2
G04	INMATE ROOM 3
G05	INMATE ROOM 4
G06	INMATE ROOM 5
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P37A	I RANGE STAIR
P37B	G RANGE STAIR
P37C	H RANGE STAIR



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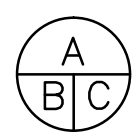


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- A Detail No.  
No. du détail  
B drawing no. - where detail required  
dessin no. - où détail exigé  
C drawing no. - where detailed  
dessin no. - où détaillé

project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC24 - ACCOMMODATION  
UNIT #3  
GROUND FLOOR  
NEW LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

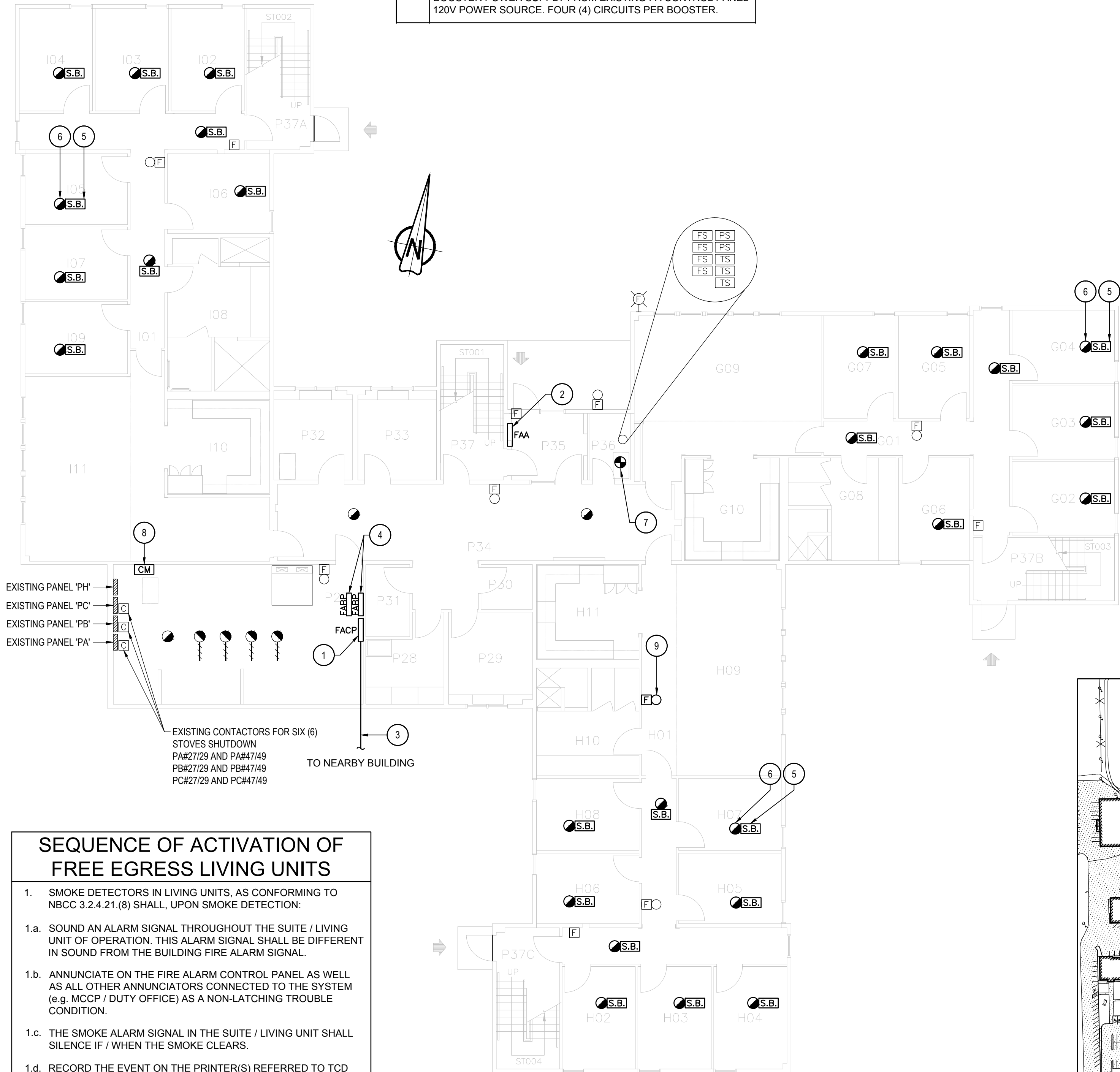
approved by  
approuvé par  
**JEFFREY DUBEAU**

bid  
offre  
**G.G.** project manager  
administrateur  
de projets

project date  
date du projet  
**2018-01-19**

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**R.080201.001**

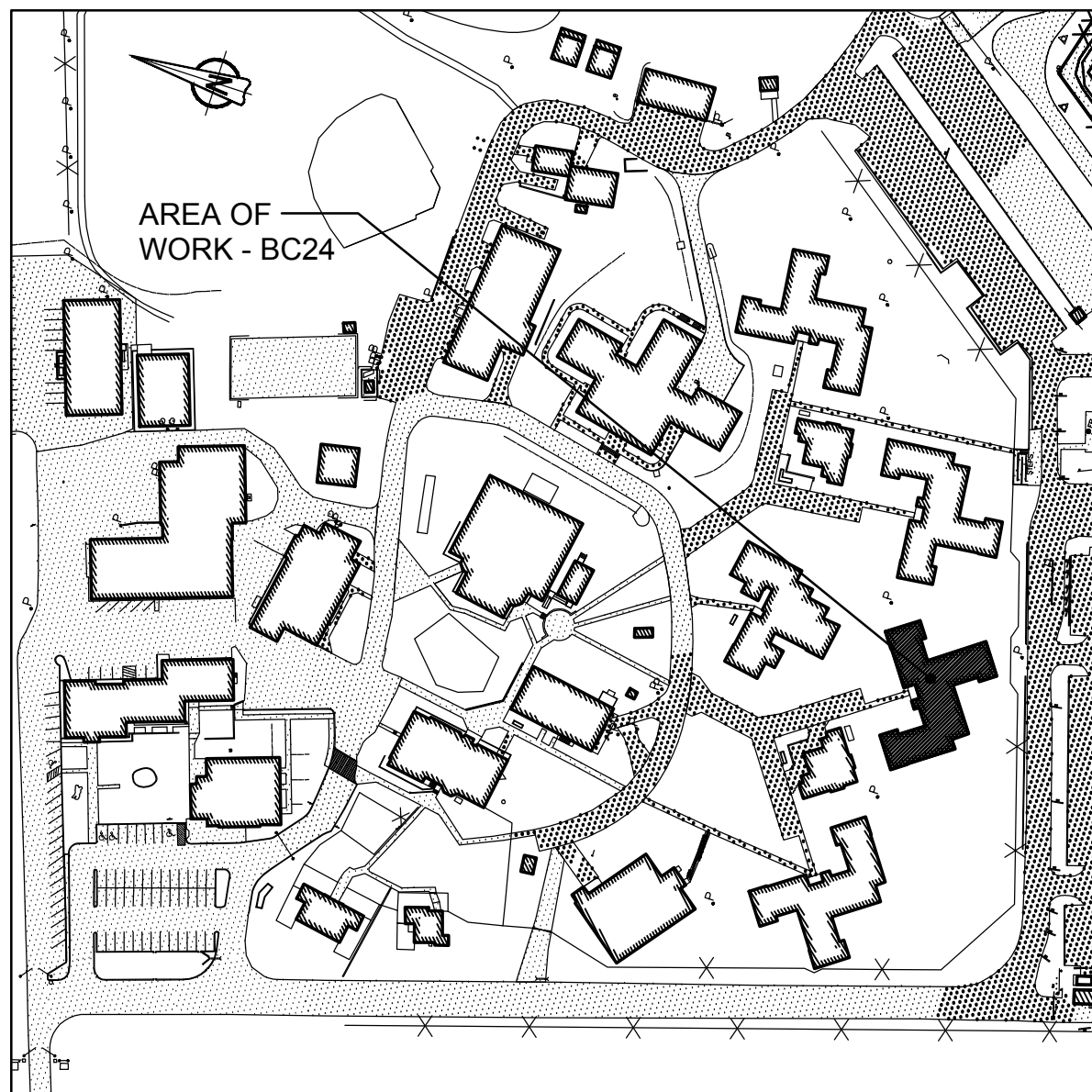
drawing no.  
dessiné no.  
**BC24\_E202**



### SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

**2 GROUND FLOOR - NEW LAYOUT**  
SCALE: 1:100



**1 KEY PLAN  
BUILDING BC24 - ACCOMMODATION UNITS #3**  
SCALE: 1:2000



GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
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4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - NEW	
1	TYPICAL OF TWENTY SIX (26) PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAIL.
2	TYPICAL OF TWENTY SIX (26) EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
3	PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING, WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS	
1.	SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
1.a.	SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
1.b.	ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
1.c.	THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
1.d.	RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
2.	SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
3.	IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

FIRE ALARM ZONE SCHEDULE	
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ZONE 21	BUILDING BC24 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
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ROOM INDEX	
G11	CORRIDOR
G12	INMATE ROOM 7
G13	INMATE ROOM 8
G14	INMATE ROOM 9
G15	INMATE ROOM 10
G16	INMATE ROOM 11
G17	INMATE ROOM 12
G18	WASHROOM
G19	LIVING ROOM
G20	KITCHEN
H12	CORRIDOR
H13	INMATE ROOM 8
H14	INMATE ROOM 9
H15	INMATE ROOM 10
H16	INMATE ROOM 11
H17	INMATE ROOM 12
H18	INMATE ROOM 13
H19	INMATE ROOM 14
H20	LIVING ROOM
H21	WASHROOM
H22	KITCHEN
I12	CORRIDOR
I13	INMATE ROOM 8
I14	INMATE ROOM 9
I15	INMATE ROOM 10
I16	INMATE ROOM 11
I17	INMATE ROOM 12
I18	INMATE ROOM 13
I19	WASHROOM
I20	INMATE ROOM 14
I21	KITCHEN
I22	LIVING ROOM
P37	P RANGE STAIR
P37A	I RANGE STAIR
P37B	G RANGE STAIR
P37C	H RANGE STAIR
P38	CORRIDOR
P39	JANITOR



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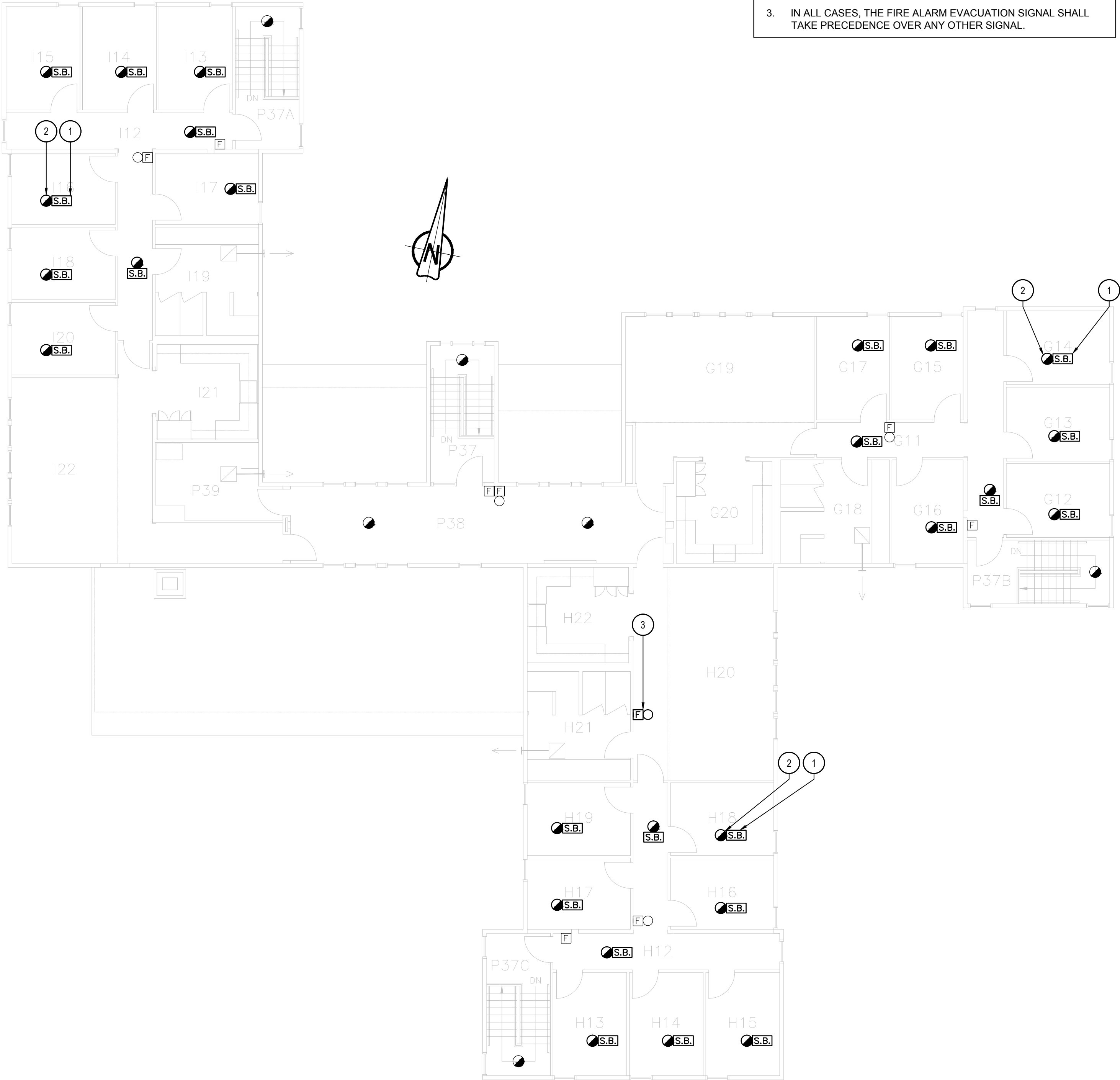


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01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

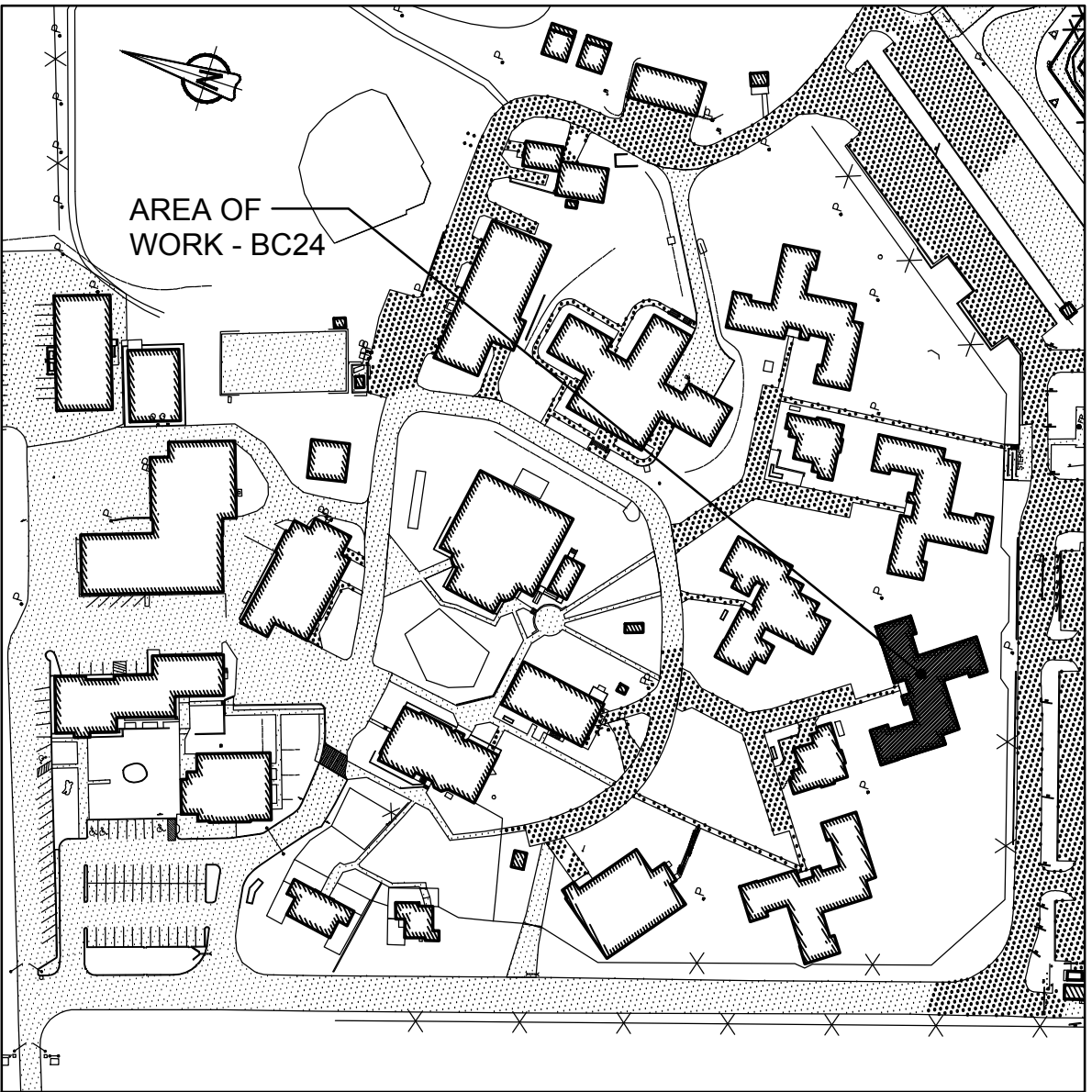
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A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC24 - ACCOMMODATION UNIT #3 SECOND FLOOR NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC24_E203	



2 SECOND FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC24 - ACCOMMODATION UNITS #3  
SCALE: 1:2000



GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	EXISTING FIRE ALARM ANNUNCIATOR TO BE REMOVED.
3	TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
4	TYPICAL OF TWENTY FIVE (25) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
5	TYPICAL OF FOUR (4) EXISTING FIRE ALARM DUCT TYPE SMOKE DETECTOR TO REMAIN.

6	TYPICAL OF SIX (6) EXISTING FIRE ALARM BELL TO REMAIN.
7	TYPICAL OF FOUR (4) EXISTING FIRE ALARM FLOW SWITCH TO REMAIN.
8	TYPICAL OF TWO (2) EXISTING FIRE ALARM PRESSURE SWITCH TO REMAIN.
9	TYPICAL OF THREE (3) EXISTING FIRE ALARM TAMPER SWITCH TO REMAIN.
10	TYPICAL OF THREE (3) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.
11	EXISTING EXTERIOR FIRE ALARM STROBE TO REMAIN.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC25 GROUND FLOOR D RANGE
ZONE 2	BUILDING BC25 GROUND FLOOR E RANGE
ZONE 3	BUILDING BC25 GROUND FLOOR F RANGE
ZONE 4	BUILDING BC25 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC25 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC25 2ND FLOOR D RANGE
ZONE 7	BUILDING BC25 2ND FLOOR E RANGE
ZONE 8	BUILDING BC25 2ND FLOOR F RANGE
ZONE 9	BUILDING BC25 DUCT DETECTORS
ZONE 10	BUILDING BC25 MAIN STAIRWELL
ZONE 11	BUILDING BC25 STAIRWELL D RANGE
ZONE 12	BUILDING BC25 STAIRWELL E RANGE
ZONE 13	BUILDING BC25 STAIRWELL F RANGE
ZONE 14	BUILDING BC25 ATTIC SPRINKLER FLOW
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ROOM INDEX	
D01	CORRIDOR
D02	INMATE ROOM 1
D03	INMATE ROOM 2
D04	INMATE ROOM 3
D05	INMATE ROOM 4
D06	INMATE ROOM 5
D07	INMATE ROOM 6
D08	WASHROOM
D09	KITCHEN
D10	LIVING ROOM
E01	CORRIDOR
E02	INMATE ROOM 1
E03	INMATE ROOM 2
E04	INMATE ROOM 3
E05	INMATE ROOM 4
E06	INMATE ROOM 5
E07	INMATE ROOM 6
E08	INMATE ROOM 7
E09	KITCHEN
E10	WASHROOM
E11	LIVING ROOM
F01	CORRIDOR
F02	INMATE ROOM 1
F03	INMATE ROOM 2
F05	INMATE ROOM 4
F06	INMATE ROOM 5
F07	INMATE ROOM 6
F08	WASHROOM
F09	INMATE ROOM 7
F10	LIVING ROOM
F11	KITCHEN
P40	MECHANICAL / ELECTRICAL ROOM
P41	JANITOR
P42	OFFICE
P43	WASHROOM
P44	BATHROOM
P45	OFFICE
P46	OFFICE
P47	CORRIDOR
P48	VESTIBULE
P49	SPRINKLER ROOM
P50	P RANGE STAIR
P50A	F RANGE STAIR
P50B	D RANGE STAIR
P50C	E RANGE STAIR

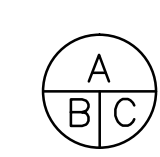


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titre du projet  
**Gravenhurst** Ontario

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC25 - ACCOMMODATION  
UNIT #2  
GROUND FLOOR  
DEMOLITION LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

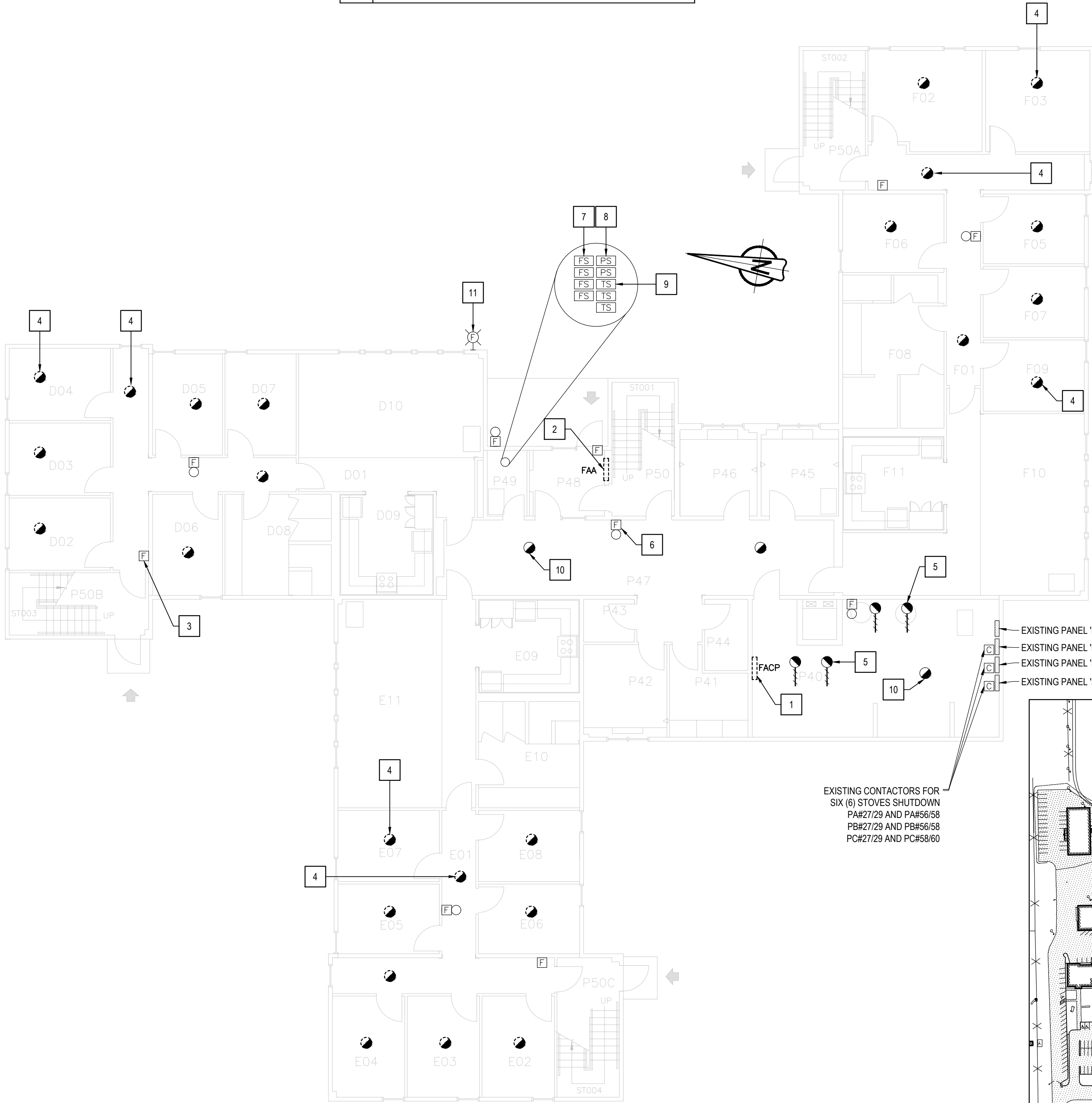
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**JEFFREY DUBEAU**

bid  
offre  
**G.G.** project manager  
administrateur  
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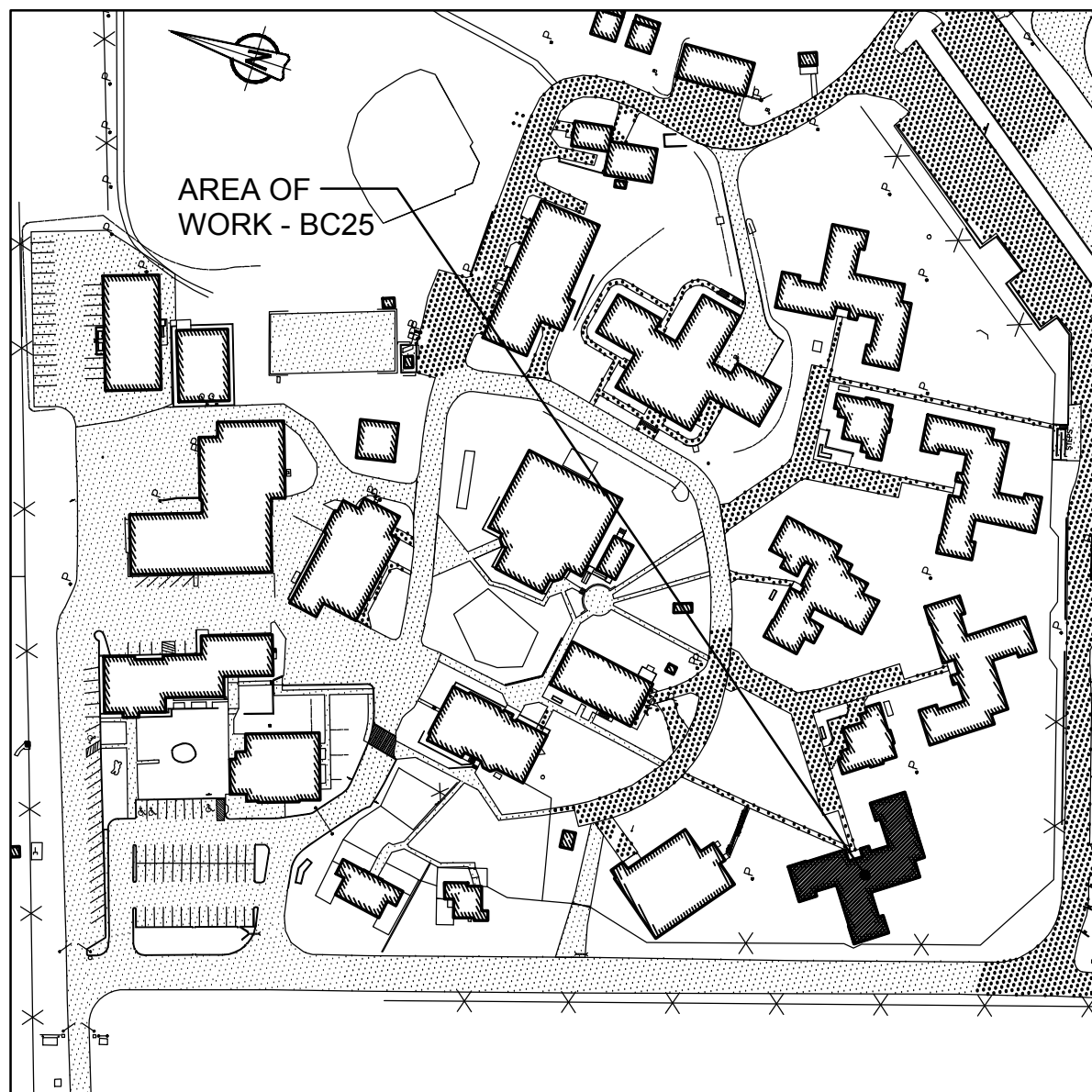
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**2018-01-19**

project no.  
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**R.080201.001**

drawing no.  
dessiné no.  
**BC25\_E200**



**2** GROUND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



**1** KEY PLAN  
BUILDING BC25 - ACCOMMODATION UNITS #2  
SCALE: 1:2000



GENERAL NOTES

1. LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2. CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3. ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4. REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5. TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION

1. TYPICAL OF FOUR (4) EXISTING FIRE ALARM PULL STATION TO REMAIN.
2. TYPICAL OF TWENTY SIX (26) EXISTING FIRE ALARM SMOKE DETECTOR INSIDE OF INMATE SLEEPING ROOM AND IN THE HALLWAY IN FRONT OF INMATE CELL TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RE-CONNECTION.
3. TYPICAL OF FOUR (4) EXISTING FIRE ALARM BELL TO REMAIN.
4. TYPICAL OF SIX (6) EXISTING FA SMOKE DETECTOR LOCATED OUTSIDE OF INMATE SLEEPING AREA TO REMAIN.

FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC25 GROUND FLOOR D RANGE
ZONE 2	BUILDING BC25 GROUND FLOOR E RANGE
ZONE 3	BUILDING BC25 GROUND FLOOR F RANGE
ZONE 4	BUILDING BC25 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC25 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC25 2ND FLOOR D RANGE
ZONE 7	BUILDING BC25 2ND FLOOR E RANGE
ZONE 8	BUILDING BC25 2ND FLOOR F RANGE
ZONE 9	BUILDING BC25 DUCT DETECTORS
ZONE 10	BUILDING BC25 MAIN STAIRWELL
ZONE 11	BUILDING BC25 STAIRWELL D RANGE
ZONE 12	BUILDING BC25 STAIRWELL E RANGE
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ROOM INDEX

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G12	INMATE ROOM 7
G13	INMATE ROOM 8
G14	INMATE ROOM 9
G15	INMATE ROOM 10
G16	INMATE ROOM 11
G17	INMATE ROOM 12
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H12	CORRIDOR
H13	INMATE ROOM 8
H14	INMATE ROOM 9
H15	INMATE ROOM 10
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I20	INMATE ROOM 14
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P37	P RANGE STAIR
P37A	F RANGE STAIR
P37B	D RANGE STAIR
P37C	E RANGE STAIR
P38	CORRIDOR
P39	JANITOR



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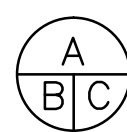
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**Gravenhurst** Ontario

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC25 - ACCOMMODATION  
UNIT #2  
SECOND FLOOR  
DEMOLITION LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conç par  
**MIKE XU**

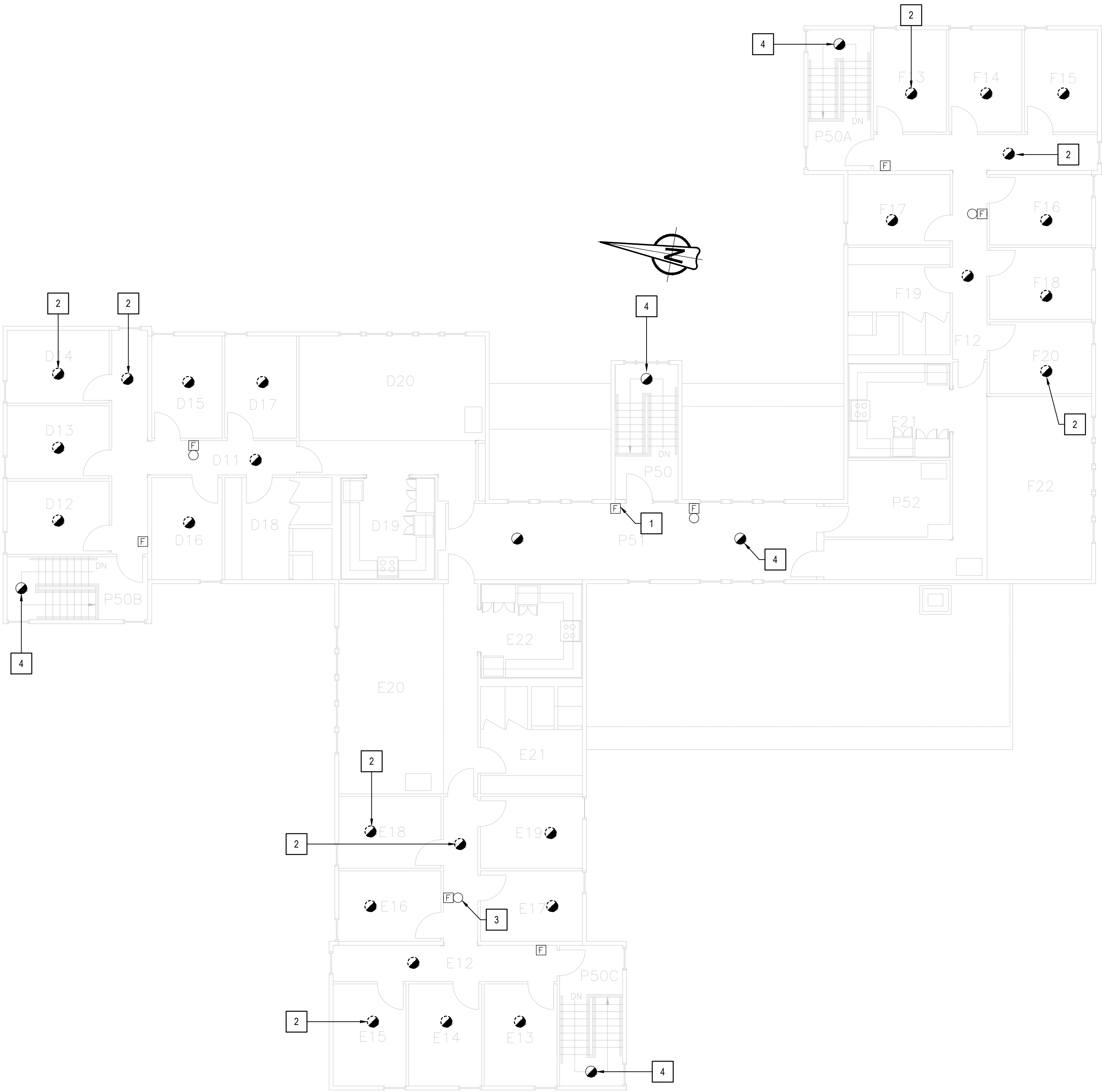
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**JEFFREY DUBEAU**

bid  
offre  
**G.G.** project manager  
administrateur  
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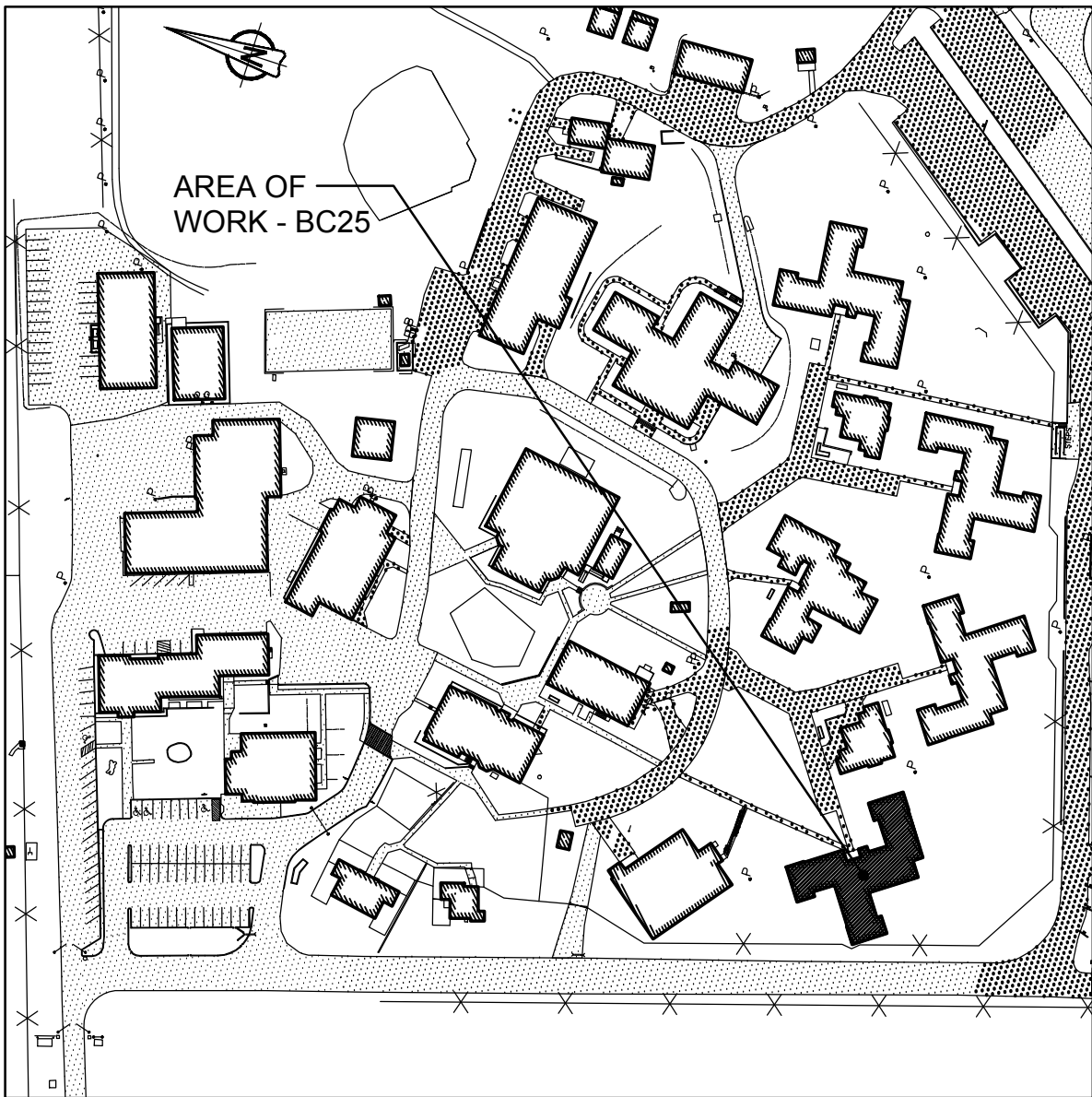
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no. du projet  
**R.080201.001**

drawing no.  
dessiné no.  
**BC25\_E201**



**2 SECOND FLOOR - DEMOLITION LAYOUT**  
SCALE: 1:100



**1 KEY PLAN  
BUILDING BC25 - ACCOMMODATION UNITS #2**  
SCALE: 1:2000



## GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

## DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES. SPRINKLERED BUILDING. INSTALL CONTROL PANEL AT ORIGINAL LOCATION AND WIRE BACK TO EXISTING CIRCUITS. PROVIDE FIRE ALARM VERIFICATION REPORT.
- NEW FIRE ALARM REMOTE ANNUNCIATOR C/W DISPLAY MODULE TO BE MOUNTED AT EXISTING LOCATION. PREPARE WALL TO SUIT NEW PANEL.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC25 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- PROVIDE NEW ADDRESSABLE FIRE ALARM HEAT DETECTOR IN SPRINKLER ROOM AND WIRE TO EXISTING FIRE ALARM SMOKE DETECTOR CIRCUIT. PROVIDE VERIFICATION REPORT.
- TYPICAL OF TWO (2)  
PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS# BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FA CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FIRE ALARM CONTROL PANEL 120V POWER SOURCE. FOUR (4) CIRCUITS PER BOOSTER.
- TYPICAL OF TWENTY FIVE (25)  
PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.

- TYPICAL OF TWENTY FIVE (25)  
EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- TYPICAL OF SIX (6)  
PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

## FIRE ALARM ZONE SCHEDULE

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ZONE 1	BUILDING BC25 GROUND FLOOR D RANGE
ZONE 2	BUILDING BC25 GROUND FLOOR E RANGE
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## ROOM INDEX

D01	CORRIDOR
D02	INMATE ROOM 1
D03	INMATE ROOM 2
D04	INMATE ROOM 3
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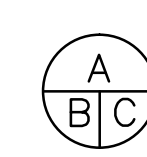


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**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC25 - ACCOMMODATION  
UNIT #2  
GROUND FLOOR  
NEW LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

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**BC25\_E202**

SEQUENCE OF ACTIVATION OF  
FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TOD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

**2 GROUND FLOOR - NEW LAYOUT**  
SCALE: 1:100

**1 KEY PLAN  
BUILDING BC25 - ACCOMMODATION UNITS #2**  
SCALE: 1:2000



GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

SEQUENCE OF ACTIVATION OF  
FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWISE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

DRAWING NOTES - NEW

- TYPICAL OF TWENTY SIX (26)  
PROVIDE NEW FA SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- TYPICAL OF TWENTY SIX (26)  
EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FIRE ALARM CIRCUIT.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING. WIRE TO THE NEAREST FIRE ALARM BELL CIRCUIT AND PROVIDE VERIFICATION REPORT.

FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC25 GROUND FLOOR D RANGE
ZONE 2	BUILDING BC25 GROUND FLOOR E RANGE
ZONE 3	BUILDING BC25 GROUND FLOOR F RANGE
ZONE 4	BUILDING BC25 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 5	BUILDING BC25 2ND FLOOR CORRIDOR
ZONE 6	BUILDING BC25 2ND FLOOR D RANGE
ZONE 7	BUILDING BC25 2ND FLOOR E RANGE
ZONE 8	BUILDING BC25 2ND FLOOR F RANGE
ZONE 9	BUILDING BC25 DUCT DETECTORS
ZONE 10	BUILDING BC25 MAIN STAIRWELL
ZONE 11	BUILDING BC25 STAIRWELL D RANGE
ZONE 12	BUILDING BC25 STAIRWELL E RANGE
ZONE 13	BUILDING BC25 STAIRWELL F RANGE
ZONE 14	BUILDING BC25 ATTIC SPRINKLER FLOW
ZONE 15	BUILDING BC25 GROUND FLOOR SPRINKLER FLOW
ZONE 16	BUILDING BC25 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 17	BUILDING BC25 2ND FLOOR SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 18	BUILDING BC25 ATTIC SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC25 ATTIC SPRINKLER VALVE
ZONE 20	BUILDING BC25 MAIN SPRINKLER VALVE
ZONE 21	BUILDING BC25 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC25 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

ROOM INDEX

G11	CORRIDOR
G12	INMATE ROOM 7
G13	INMATE ROOM 8
G14	INMATE ROOM 9
G15	INMATE ROOM 10
G16	INMATE ROOM 11
G17	INMATE ROOM 12
G18	WASHROOM
G19	KITCHEN
G20	LIVING ROOM
H12	CORRIDOR
H13	INMATE ROOM 8
H14	INMATE ROOM 9
H15	INMATE ROOM 10
H16	INMATE ROOM 11
H17	INMATE ROOM 12
H18	INMATE ROOM 13
H19	INMATE ROOM 14
H20	LIVING ROOM
H21	WASHROOM
H22	KITCHEN
I12	CORRIDOR
I13	INMATE ROOM 8
I14	INMATE ROOM 9
I15	INMATE ROOM 10
I16	INMATE ROOM 11
I17	INMATE ROOM 12
I18	INMATE ROOM 13
I19	WASHROOM
I20	INMATE ROOM 14
I21	KITCHEN
I22	LIVING ROOM
P37	P RANGE STAIR
P37A	F RANGE STAIR
P37B	D RANGE STAIR
P37C	E RANGE STAIR
P38	CORRIDOR
P39	JANITOR



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02	ISSUED FOR 66% REVIEW	2017-05-19
01	ISSUED FOR PRELIMINARY DESIGN	2017-03-31
revision		date

Do not scale drawings.  
Verify all dimensions and conditions on site and immediately  
notify the Departmental Representative of all discrepancies.

A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title  
titre du projet  
**Gravenhurst** Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin  
**FIRE ALARM  
BC25 - ACCOMMODATION  
UNIT #2  
SECOND FLOOR  
NEW LAYOUT**

drawn by  
dessiné par  
D. GINGRAS/J.L.C/J.C/T.T

designed by  
conçu par  
MIKE XU

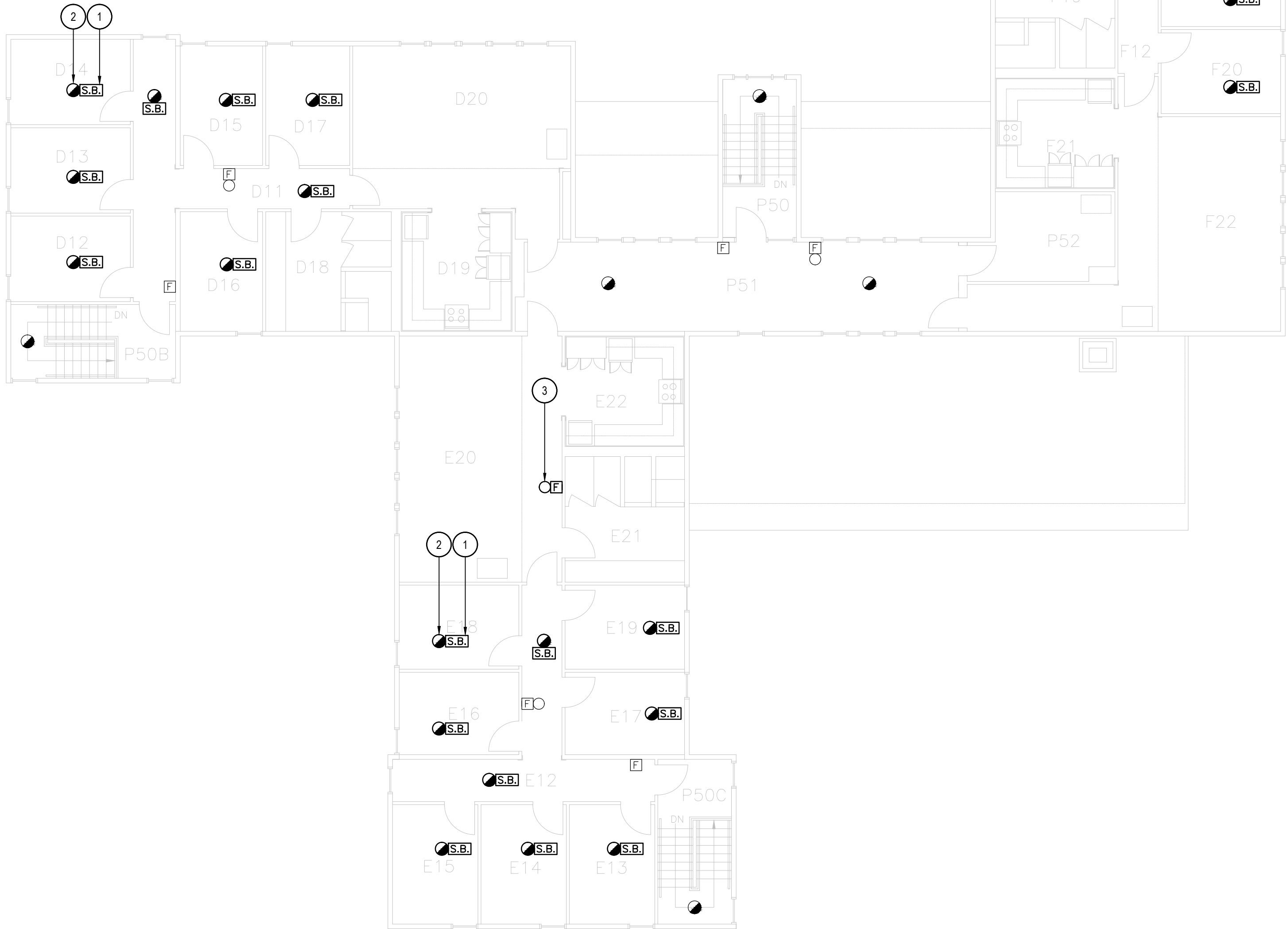
approved by  
approuvé par  
JEFFREY DUBEAU

bid  
offre  
G.G. project manager  
administrateur  
de projets

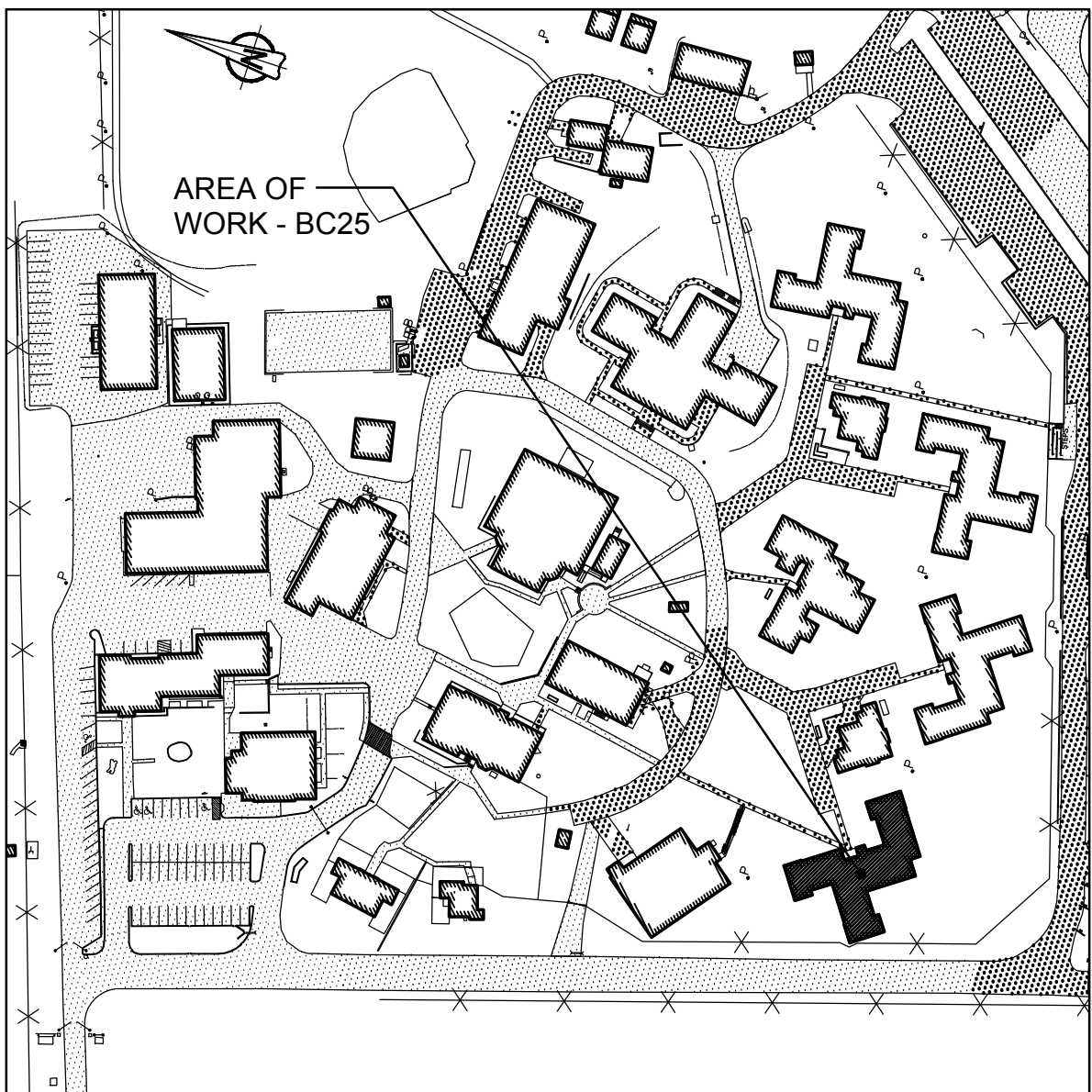
project date  
date du projet  
2018-01-19

project no.  
no. du projet  
R.080201.001

drawing no.  
dessiné no.  
BC25\_E203

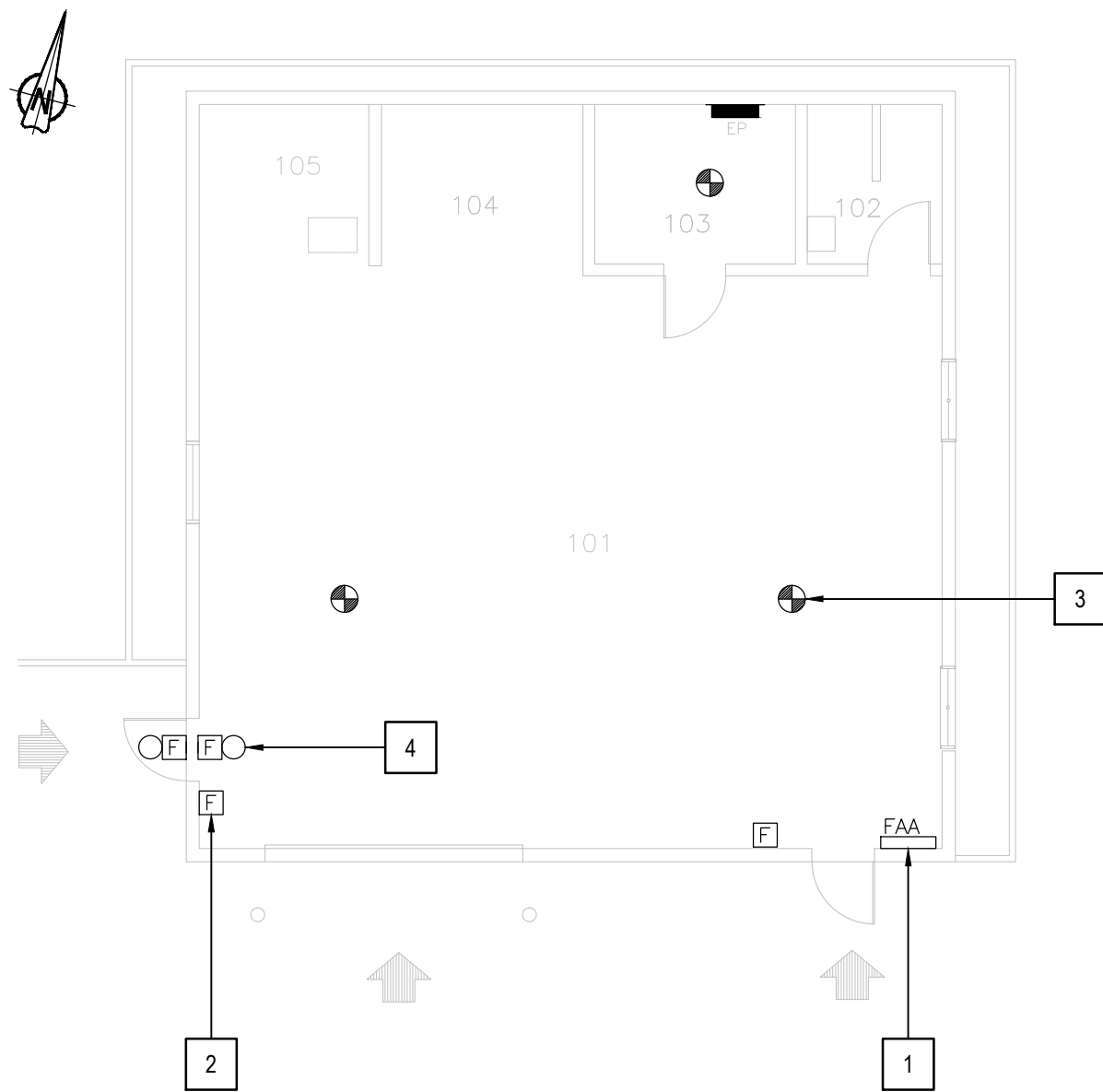


2 SECOND FLOOR - NEW LAYOUT  
SCALE: 1:100

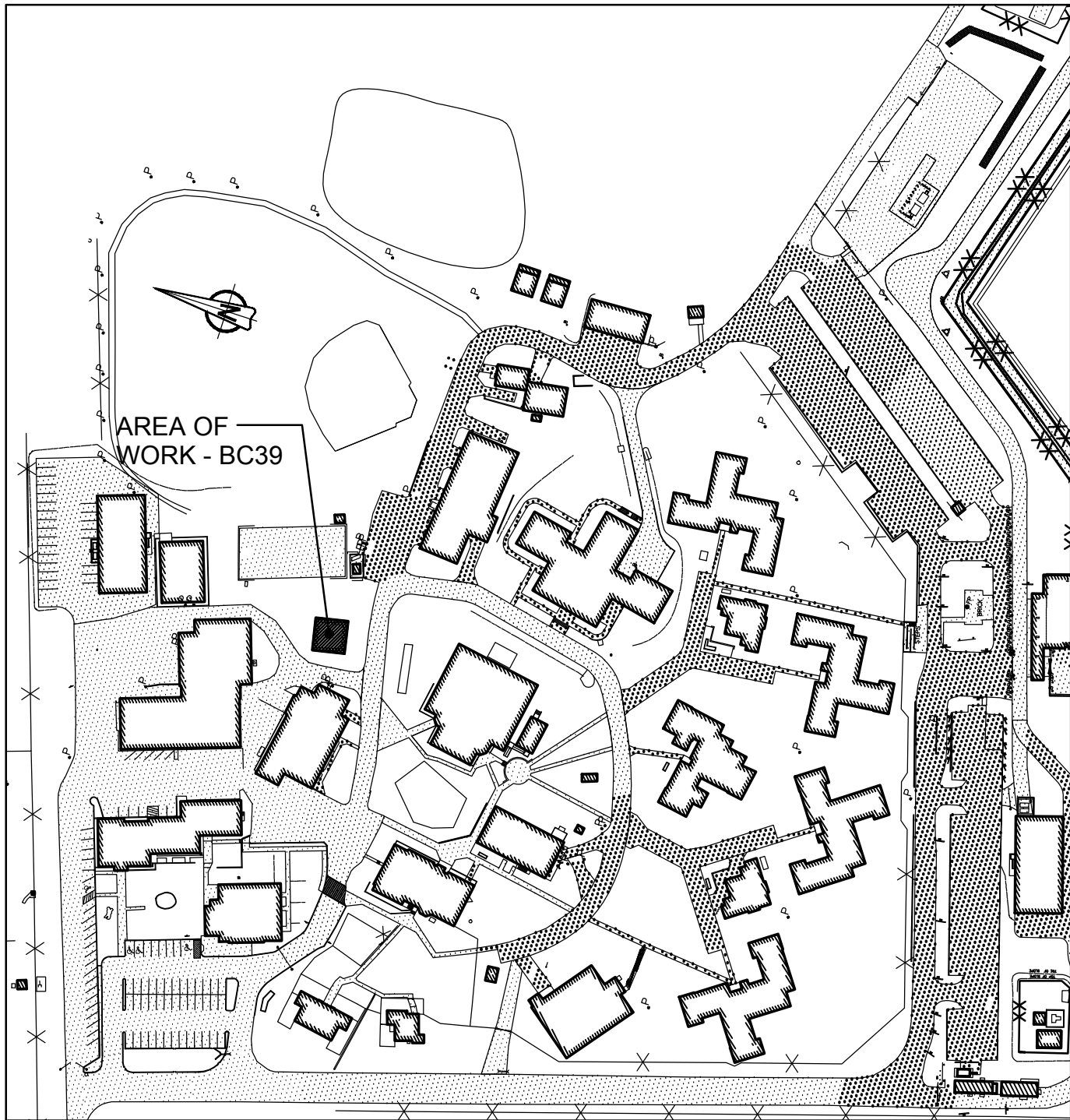


1 KEY PLAN  
BUILDING BC25 - ACCOMMODATION UNITS #2  
SCALE: 1:2000





2 GROUND FLOOR - EXISTING  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC39 - FIRE HALL  
SCALE: 1:2000

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

### DRAWING NOTES - EXISTING

- EXISTING FIRE ALARM ANNUNCIATOR PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP F, DIVISION 3 OCCUPANCIES, UN-SPRINKLERED BUILDING. OPTICAL FIBER CABLE CONNECTED.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF THREE (3) EXISTING FIRE ALARM HEAT DETECTOR TO REMAIN.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM BELL TO REMAIN.

### FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC39

### ROOM INDEX

101	GARAGE
102	WASHROOM
103	MECHANICAL ROOM
104	STORAGE
105	STORAGE

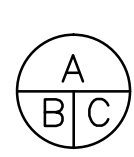


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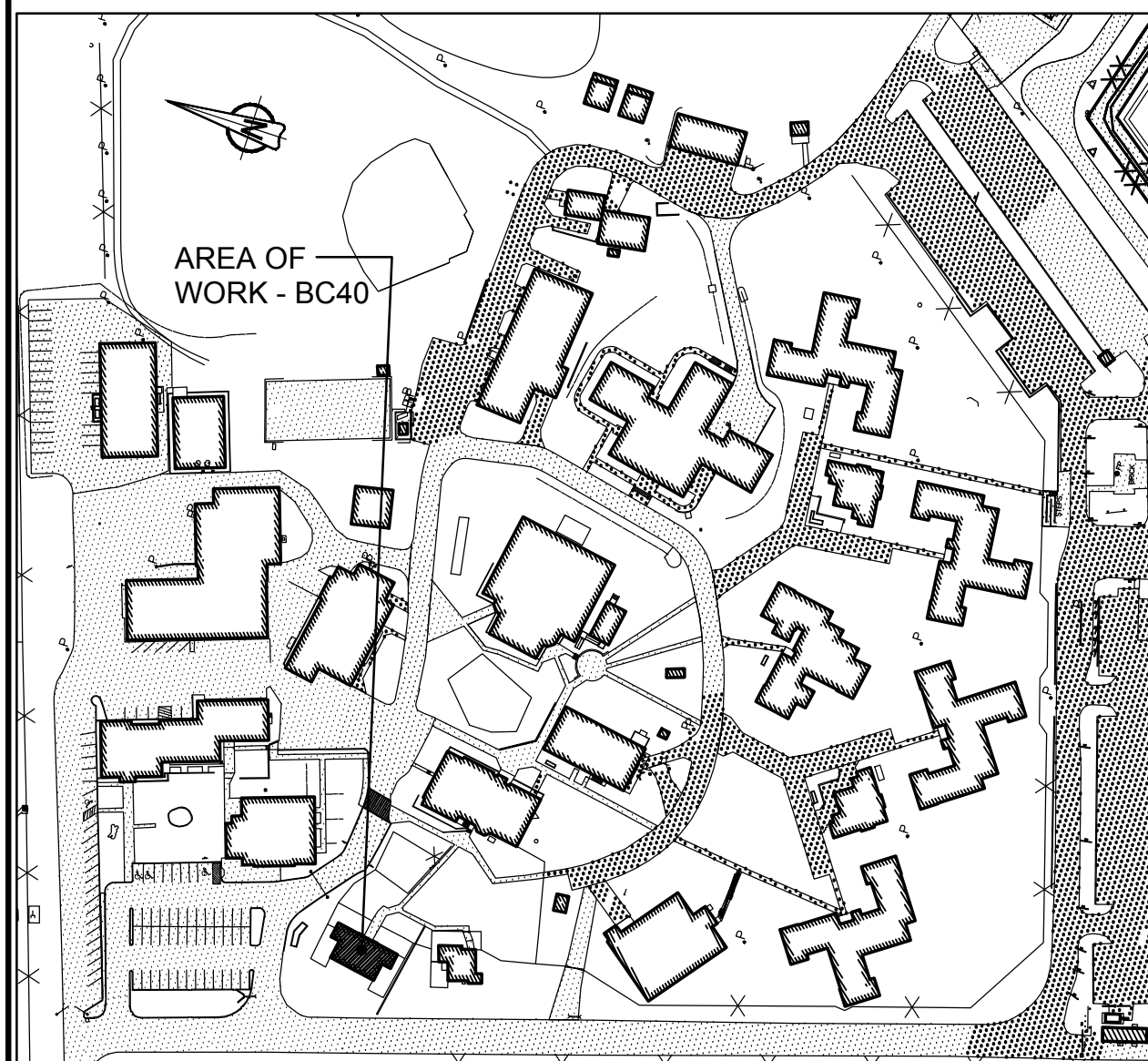
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C	C drawing no. - where detailed dessin no. - où détaillé

project title titre du projet	Gravenhurst		Ontario
BEAVER CREEK INSTITUTION			
FIRE ALARM SYSTEM UPGRADE — PHASE II			
drawing title titre du dessin	FIRE ALARM BC39—VOCATIONAL PROGRAMS GROUND FLOOR		
EXISTING LAYOUT			
drawn by dessine par	D. GINGRAS/J.L.C./J.C./T.T.		
designed by conc par	MIKE XU		
approved by approuve par	JEFFREY DUBEAU		
bid offre	G.G.	project manager administrateur de projets	
project date date du projet	2018-01-19		
project no. no. du projet	R.080201.001		
drawing no. dessine no.	BC39_E200		





**1 BUILDING BC40 - FAMILY VISITS**  
SCALE: 1:2000

### SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
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### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
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- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### DRAWING NOTES - DEMOLITION

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
- TYPICAL OF FIVE (5) EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM SMOKE DETECTOR TO BE DISCONNECTED AND REMOVED. KEEP DEVICES FOR RECONNECTION.
- TYPICAL OF TWO (2) EXISTING FIRE ALARM DUCT SMOKE DETECTOR TO REMAIN.
- TYPICAL OF FIVE (5) EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF FOUR (4) EXISTING FIRE ALARM CONNECTION TO FLOW SWITCH TO REMAIN.
- TYPICAL OF SIX (6) EXISTING FIRE ALARM CONNECTION TO TAMPER SWITCH TO REMAIN.
- TYPICAL OF FOUR (4) EXISTING SMOKE ALARM TO BE REMOVED. EXISTING WIRES TO REMAIN FOR NEW CONNECTION.

### DRAWING NOTES - NEW

- NEW FIRE ALARM PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES, SPRINKLERED BUILDING. INSTALL CONTROL PANEL AT EXISTING LOCATION AND WIRE BACK ALL CIRCUITS. PROVIDE FIRE ALARM VERIFICATION REPORT.
- TYPICAL OF TWO (2) PROVIDE A NEW REMOTE ANNUNCIATOR C/W DISPLAY MODULE AT ENTRANCE AND CONNECT TO NEW FIRE ALARM CONTROL PANEL. PREPARE WALL TO FIT NEW PANEL.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC40 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANEL VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- TYPICAL OF SIX (6) PROVIDE NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE VERIFICATION REPORT.
- TYPICAL OF FOUR (4) PROVIDE NEW ADDRESSABLE SMOKE DETECTOR C/W FIRE ALARM SOUNDER BASE IN SLEEPING ROOM AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES. RUN #16 AWG WIRES BACK TO FIRE ALARM CONTROL PANEL. REFER TO SOUNDER BASE WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAIL.
- TYPICAL OF TWO (2) EXISTING FA SMOKE DETECTOR TO BE MOUNTED ON SOUNDER BASE. WIRE SMOKE DETECTOR TO SOUNDER BASE AND WIRE SMOKE DETECTOR BACK TO EXISTING FA CIRCUIT.
- TYPICAL OF TWO (2) PROVIDE NEW FIRE ALARM SOUNDER BASE AND INSTALL AT EXISTING SMOKE DETECTOR LOCATION. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASES INSIDE EACH RANGE (8 OR 9 BASES/CIRCUIT). RUN #16 AWG WIRES C/W CONDUIT BACK TO NEW BOOSTER POWER SUPPLY IN ELECTRICAL ROOM. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.
- PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS# BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FA CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FA CONTROL PANEL 120V POWER SOURCE.

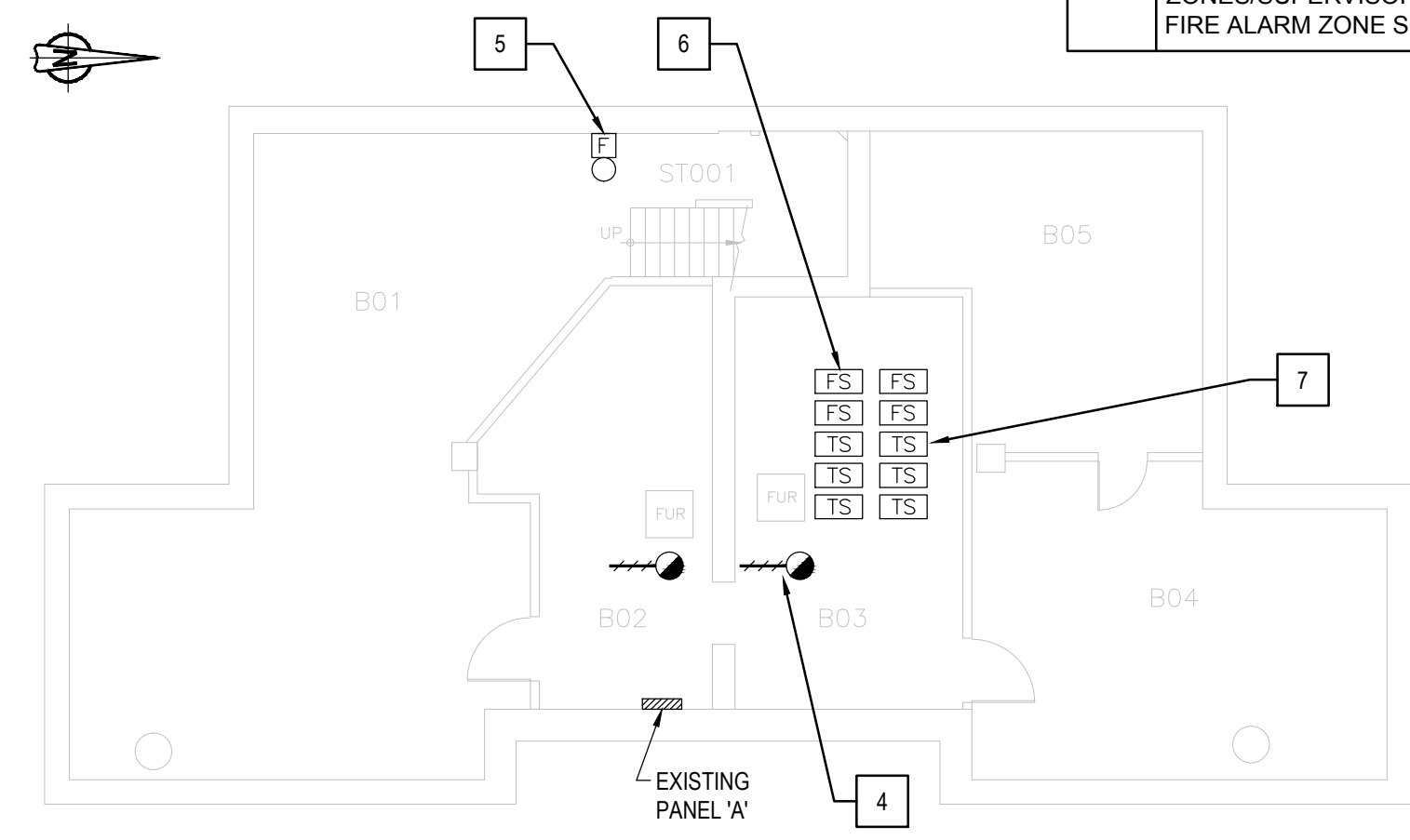
- PROVIDE NEW TAMPER SWITCH FOR BACKFLOW PREVENTER IN WATER MAIN WHICH PROVIDES FIRE FLOW TO SPRINKLER SYSTEM. MAKE FIRE ALARM CONNECTION BACK TO FIRE ALARM CONTROL PANEL AND PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT VALVE.
- TYPICAL OF TWO (2) PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR UNIT A AND B STOVE FIRE ALARM SHUTDOWN. WIRE TO EXISTING FIRE ALARM STOVE SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.
- TYPICAL OF TWO (2) PROVIDE CONTACTOR FOR UNIT A AND B STOVE CIRCUIT NUMBER A#1/3 AND A#2/4, 40A, 2P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
- PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'A' FOR TRANSFORMER 120V INPUT CIRCUIT, CIRCUIT NUMBER A#62.
- PROVIDE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR AND TIE TO FIRE ALARM CONTROL PANEL TO SHUTDOWN TWO (2) FURNACES IN FIRE CONDITION.

### FIRE ALARM ZONE SCHEDULE

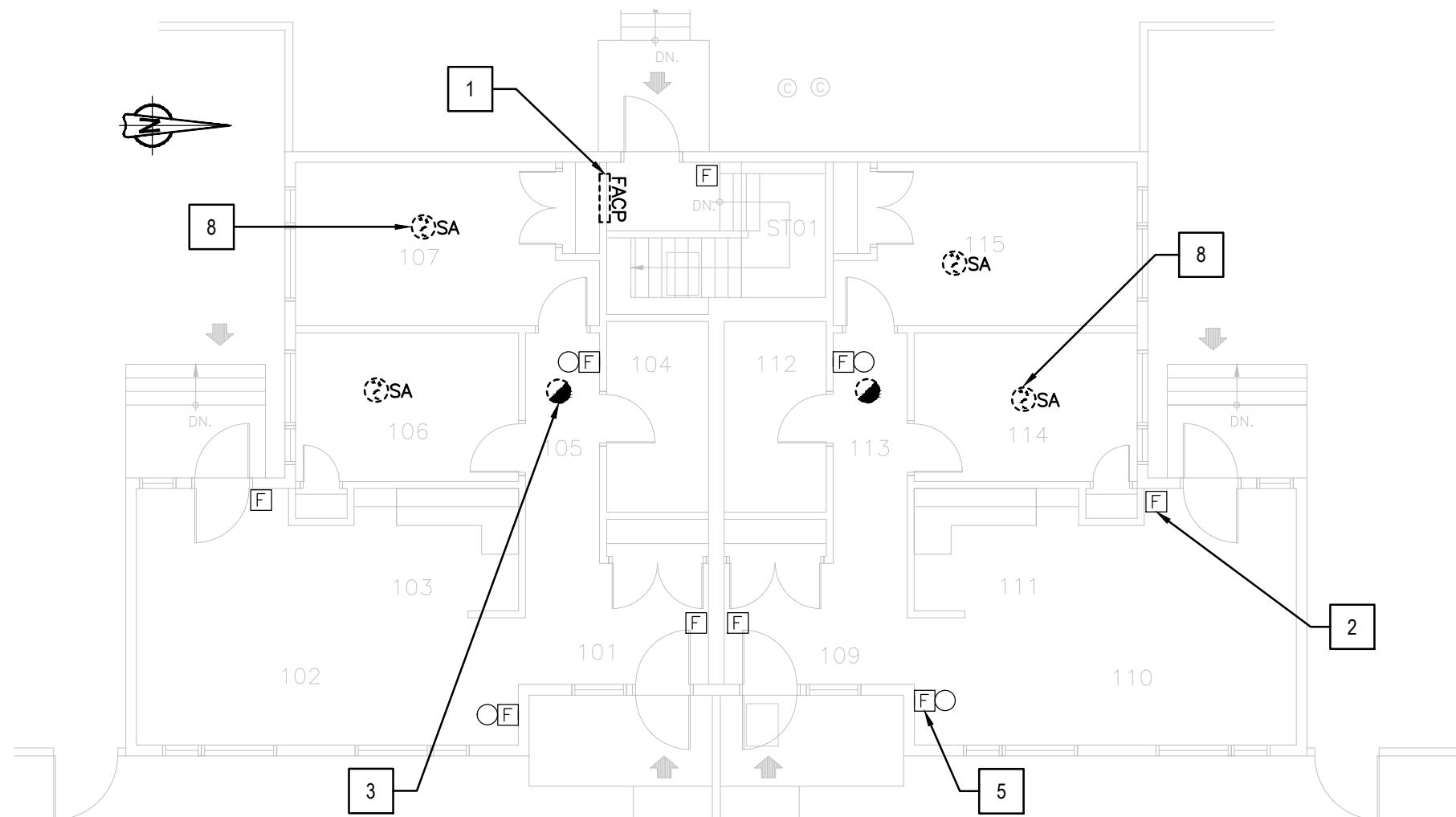
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC40 GROUND FLOOR UNIT A
ZONE 2	BUILDING BC40 GROUND FLOOR UNIT B
ZONE 3	BUILDING BC40 BASEMENT
ZONE 4	BUILDING BC40 DUCT SMOKE DETECTOR UNIT A BASEMENT
ZONE 5	BUILDING BC40 DUCT SMOKE DETECTOR UNIT B BASEMENT
ZONE 6	BUILDING BC40 SPRINKLER FLOW SWITCH UNIT A BASEMENT
ZONE 7	BUILDING BC40 SPRINKLER FLOW SWITCH BASEMENT NORTH
ZONE 8	BUILDING BC40 SPRINKLER FLOW SWITCH UNIT B BASEMENT
ZONE 9	BUILDING BC40 SPRINKLER FLOW SWITCH BASEMENT SOUTH
SUPERVISORY SIGNALS	
ZONE 10	BUILDING BC40 SPRINKLER TAMPER SWITCH UNIT A BASEMENT
ZONE 11	BUILDING BC40 SPRINKLER TAMPER SWITCH UNIT B BASEMENT
ZONE 12	BUILDING BC40 MAIN SPRINKLER TAMPER SWITCH (BACKFLOW)
ZONE 13	BUILDING BC40 MAIN SPRINKLER TAMPER SWITCH (BACKFLOW)
ZONE 14	BUILDING BC40 SPRINKLER TAMPER SWITCH BASEMENT NORTH
ZONE 15	BUILDING BC40 SPRINKLER TAMPER SWITCH BASEMENT SOUTH

### ROOM INDEX

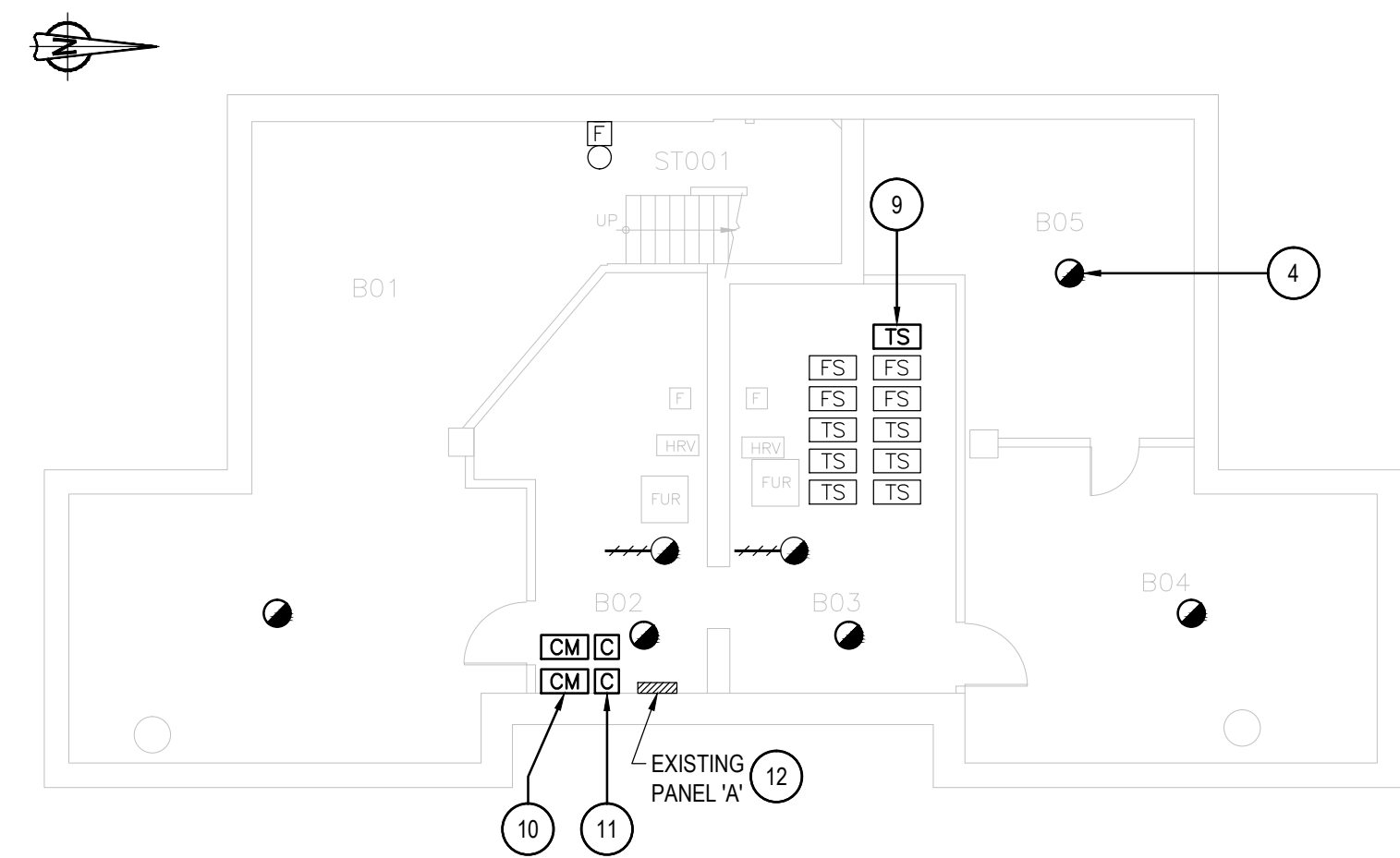
101	ENTRY
102	DINING / LIVING ROOM
103	KITCHEN
104	BATHROOM
105	CORRIDOR
106	BEDROOM
107	BEDROOM
109	ENTRY
110	DINING / LIVING ROOM
111	KITCHEN
112	BATHROOM
113	CORRIDOR
114	BEDROOM
115	BEDROOM
ST01	STAIR NO.1
B01	OPEN AREA
B02	MECHANICAL ROOM
B03	MECHANICAL ROOM
B04	STORAGE
B05	STORAGE



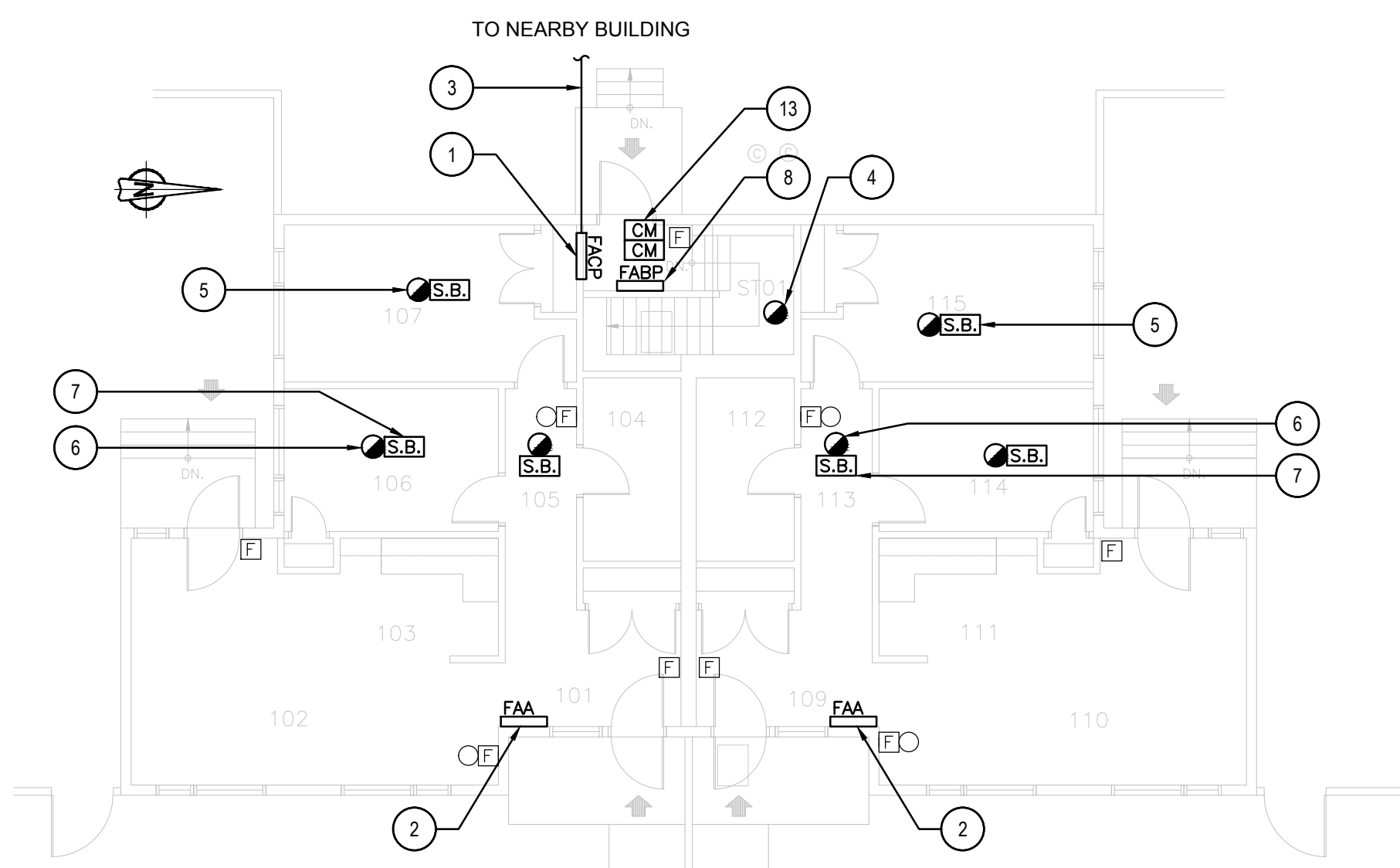
**2 BASEMENT - DEMOLITION LAYOUT**  
SCALE: 1:100



**3 FIRST FLOOR - DEMOLITION LAYOUT**  
SCALE: 1:100



**4 BASEMENT - NEW LAYOUT**  
SCALE: 1:100



**5 FIRST FLOOR - NEW LAYOUT**  
SCALE: 1:100



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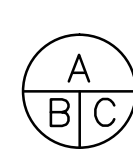


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dessin no. - où détail exigé  
C drawing no. - where detailed  
dessin no. - où détaillé

project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC 40-FAMILY VISITS  
BASEMENT & FIRST FLOOR**

**DEMOLITION & NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conc par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur  
de projets

project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC40\_E200**





**1** KEY PLAN  
BUILDING BC41 - PROGRAM BUILDING  
SCALE: 1:2000

GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, SPRINKLERED BUILDING. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF EIGHT (8) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.
3	TYPICAL OF EIGHT (8) EXISTING FIRE ALARM SMOKE DETECTOR TO BE REMOVED.
4	TYPICAL OF FIVE (5) EXISTING FIRE ALARM DUCT TYPE SMOKE DETECTOR TO BE REMOVED.
5	TYPICAL OF TEN (10) EXISTING FIRE ALARM BELL TO REMAIN.
6	TYPICAL OF TWO (2) EXISTING SPRINKLER FLOW SWITCH MONITOR MODULE TO BE REMOVED.
7	EXISTING SPRINKLER PRESSURE SWITCH MONITOR MODULE TO BE REMOVED.
8	TYPICAL OF FIVE (5) EXISTING TAMPER SWITCH MONITOR MODULE TO BE REMOVED.

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC41 GROUND FLOOR PULL STATIONS
ZONE 2	BUILDING BC41 2ND FLOOR PULL STATIONS
ZONE 3	BUILDING BC41 MECHANICAL ROOM PULL STATIONS
ZONE 4	BUILDING BC41 ELECTRICAL ROOM PULL STATIONS
ZONE 5	BUILDING BC41 STAIRWELL #1
ZONE 6	BUILDING BC41 STAIRWELL #2
ZONE 7	BUILDING BC41 GROUND FLOOR ELEVATOR LOBBY
ZONE 8	BUILDING BC41 2ND FLOOR SPRINKLER FLOW
ZONE 9	BUILDING BC41 GROUND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 10	BUILDING BC41 GROUND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 11	BUILDING BC41 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 12	BUILDING BC41 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 13	BUILDING BC41 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 14	BUILDING BC41 ELEVATOR SHAFT
ZONE 15	BUILDING BC41 GROUND FLOOR CORRIDOR SMOKE DETECTORS
ZONE 16	BUILDING BC41 2ND FLOOR CORRIDOR SMOKE DETECTORS
ZONE 17	BUILDING BC41 GROUND FLOOR SPRINKLER FLOW
ZONE 18	BUILDING BC41 MAIN SPRINKLER FLOW
ZONE 19 (NEW)	BUILDING BC41 GROUND FLOOR ELEVATOR MACHINE ROOM

SUPERVISORY SIGNALS	
ZONE 20	BUILDING BC41 GROUND FLOOR SPRINKLER VALVE
ZONE 21	BUILDING BC41 2ND FLOOR SPRINKLER VALVE
ZONE 22	BUILDING BC41 CHECK VALVE INLET
ZONE 23	BUILDING BC41 CHECK VALVE OUTLET
ZONE 24	BUILDING BC41 MAIN SPRINKLER LOW PRESSURE
ZONE 25	BUILDING BC41 MAIN SPRINKLER VALVE

ROOM INDEX	
201	STAIR NO.1
202	CORRIDOR
203	HALLWAY
204	OFFICE
205	OFFICE
206	MEN'S WASHROOM
207	JANITOR'S ROOM
208	HALLWAY
209	OFFICE
210	OFFICE
211	WOMEN'S WASHROOM / HANDICAPPED
212	STAFF ROOM / LOUNGE
213	STAIR NO.2
214	CLASSROOM
215	CLASSROOM
216	WAITING AREA
217	CLASSROOM
218	BOARDROOM
219	OFFICE
220	MECHANICAL ROOM
221	VESTIBULE

ROOM INDEX	
101	LOBBY
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103	LIBRARY
104	STORAGE ROOM
105	INTERVIEW ROOM
106	TEACHER'S PREPARATION
107	VESTIBULE
108	STAIR NO.2
109	CORRIDOR
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112	CLASSROOM
113	CLASSROOM
114	CLASSROOM
115	JANITOR'S ROOM
116	CORRIDOR
117	CORRIDOR
118	STAFF ROOM / LOUNGE
119	OFFICE
120	OFFICE
121	OFFICE
123	MEN'S WASHROOM
124	STAIR NO.1
125	MECHANICAL ROOM
126	ELECTRICAL ROOM
127	VESTIBULE
128	STORAGE

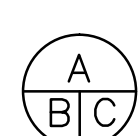

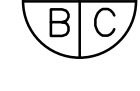


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revision		date

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project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC41-PROGRAM BUILDING  
FIRST & SECOND FLOOR**

**DEMOLITION LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C./J.C./T.T**

designed by  
conçu par **MIKE XU**

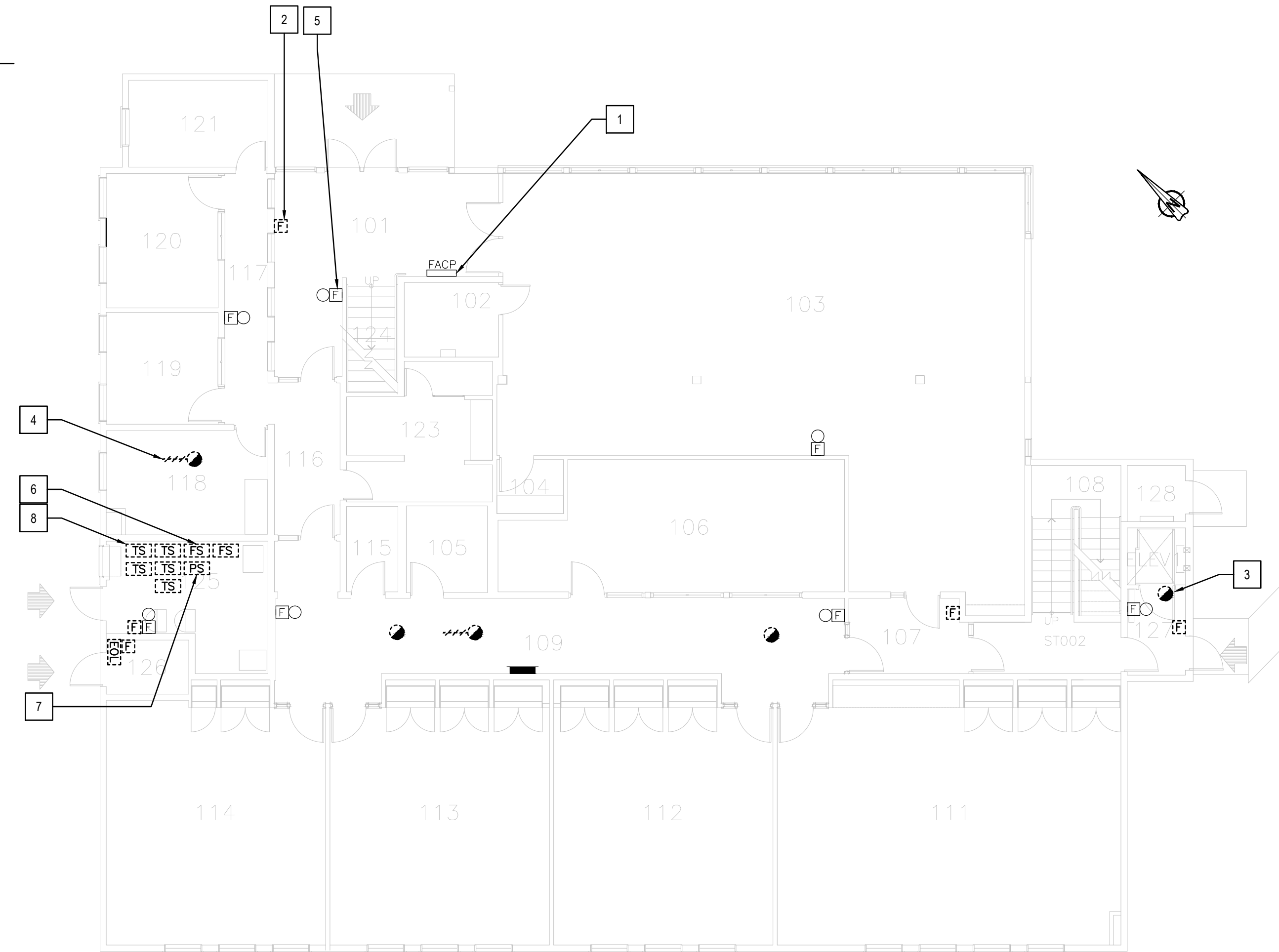
approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur de projets

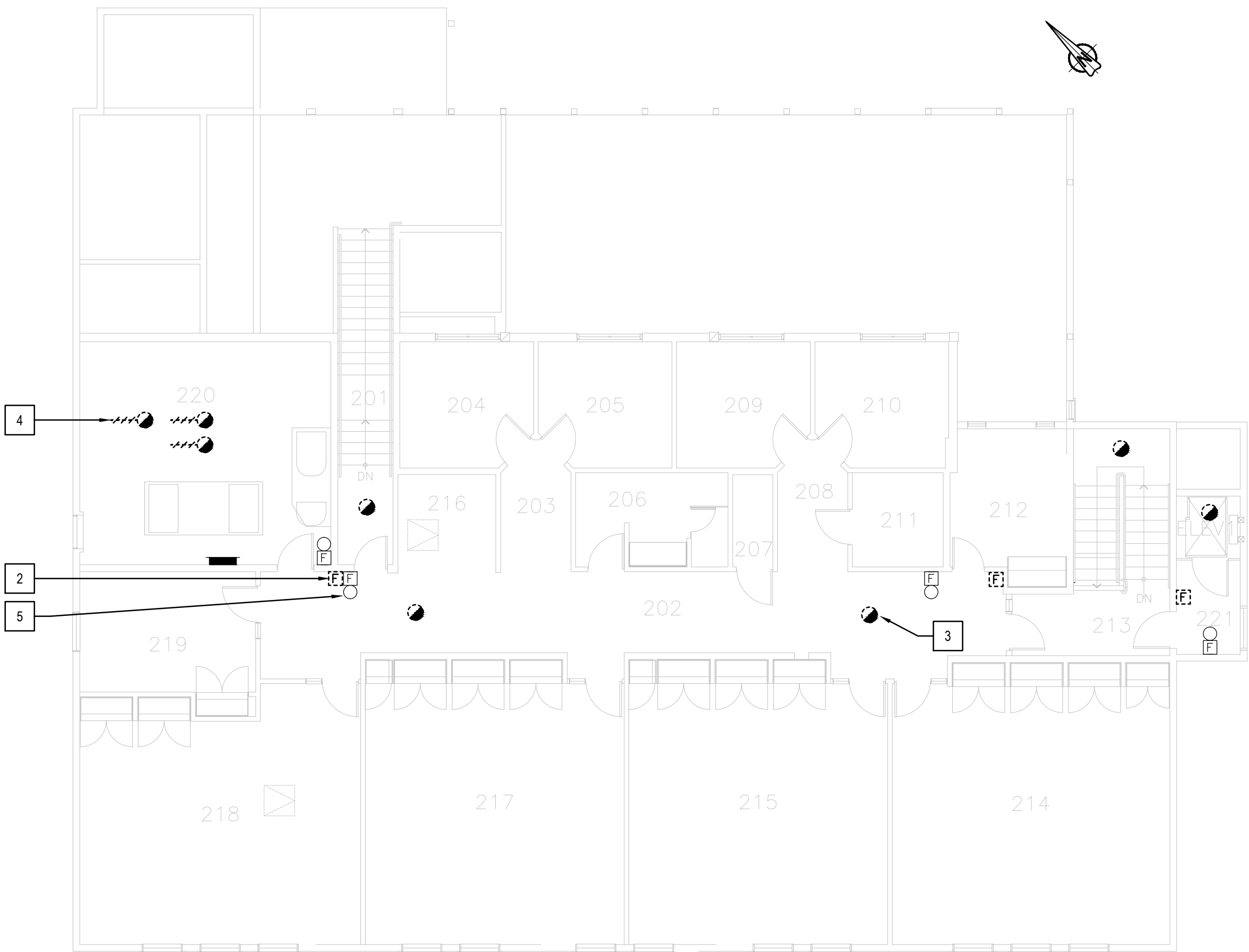
project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC41\_E200**



**2** FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



**3** SECOND FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

DRAWING NOTES - NEW

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3X TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES. PROVIDE FIBER OPTIC INTERFACE CARD AND INSTALL INSIDE FIRE ALARM CONTROL PANEL. CONNECT NEW OPTICAL FIBER CABLE TO INTERFACE CARD AND PROVIDE VERIFICATION REPORT.
- TYPICAL OF EIGHT (8) NEW ADDRESSABLE FIRE ALARM PULL STATION TO BE INSTALLED AT A.F.F. 1150mm. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION AS REQUIRED. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
- TYPICAL OF EIGHT (8) NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR TO BE INSTALLED IN EXISTING LOCATION.
- TYPICAL OF FIVE (5) NEW ADDRESSABLE FIRE ALARM DUCT TYPE SMOKE DETECTOR TO BE INSTALLED IN EXISTING LOCATION.
- TYPICAL OF TEN (10) EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF TWO (2) PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT SPRINKLER SWITCH AND MAKE CONNECTION.
- PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT PRESSURE SWITCH AND MAKE CONNECTION.
- TYPICAL OF FIVE (5) PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT TAMPER SWITCH AND MAKE CONNECTION.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC41 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANEL VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- PROVIDE NEW ADDRESSABLE SMOKE DETECTOR IN FIRST FLOOR ELEVATOR MACHINE ROOM #128 AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE TWO (2) ISOLATOR MODULES AND ADD THIS DEVICE TO FIRE ALARM ZONE DISPLAY. PROVIDE VERIFICATION REPORT.
- PROVIDE NEW TAMPER SWITCH FOR BACKFLOW PREVENTER IN WATER MAIN WHICH PROVIDE FIRE FLOW TO SPRINKLER SYSTEM. MAKE FIRE ALARM CONNECTION BACK TO FIRE ALARM CONTROL PANEL AND PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT VALVE.
- PROVIDE NEW ADDRESSABLE FA PULL STATION AFF 1150MM AT LOCATION AS SHOWN. WIRE NEW DEVICE TO EXISTING PULL STATION CIRCUIT..
- PROVIDE NEW FIRE ALARM BELL AND WIRE TO EXISTING FIRE ALARM BELL CIRCUIT.

FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC41 GROUND FLOOR PULL STATIONS
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102	WOMEN'S WASHROOM
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108	STAIR NO.2
109	CORRIDOR
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112	CLASSROOM
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114	CLASSROOM
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117	CORRIDOR
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119	OFFICE
120	OFFICE
121	OFFICE
123	MEN'S WASHROOM
124	STAIR NO.1
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126	ELECTRICAL ROOM
127	VESTIBULE
128	STORAGE

ROOM INDEX

201	STAIR NO.1
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203	HALLWAY
204	OFFICE
205	OFFICE
206	MEN'S WASHROOM
207	JANITOR'S ROOM
208	HALLWAY
209	OFFICE
210	OFFICE
211	WOMEN'S WASHROOM / HANDICAPPED
212	STAFF ROOM / LOUNGE
213	STAIR NO.2
214	CLASSROOM
215	CLASSROOM
216	WAITING AREA
217	CLASSROOM
218	BOARDROOM
219	OFFICE
220	MECHANICAL ROOM
221	VESTIBULE



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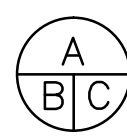


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**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC41-PROGRAM BUILDING  
FIRST & SECOND FLOOR**

**NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

bid  
offre **G.G.** project manager  
administrateur de projets

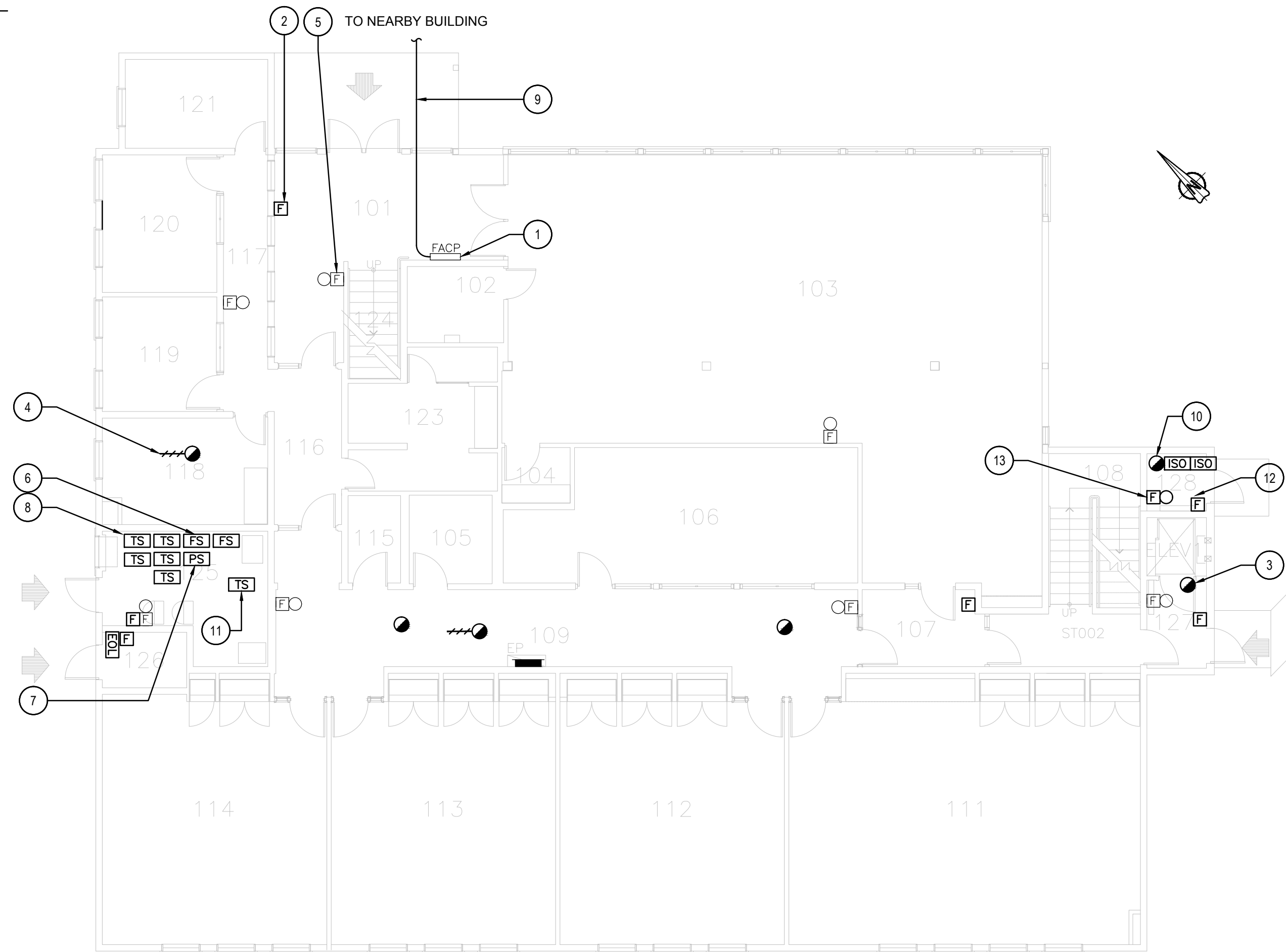
project date  
date du projet **2018-01-19**

project no.  
no. du projet **R.080201.001**

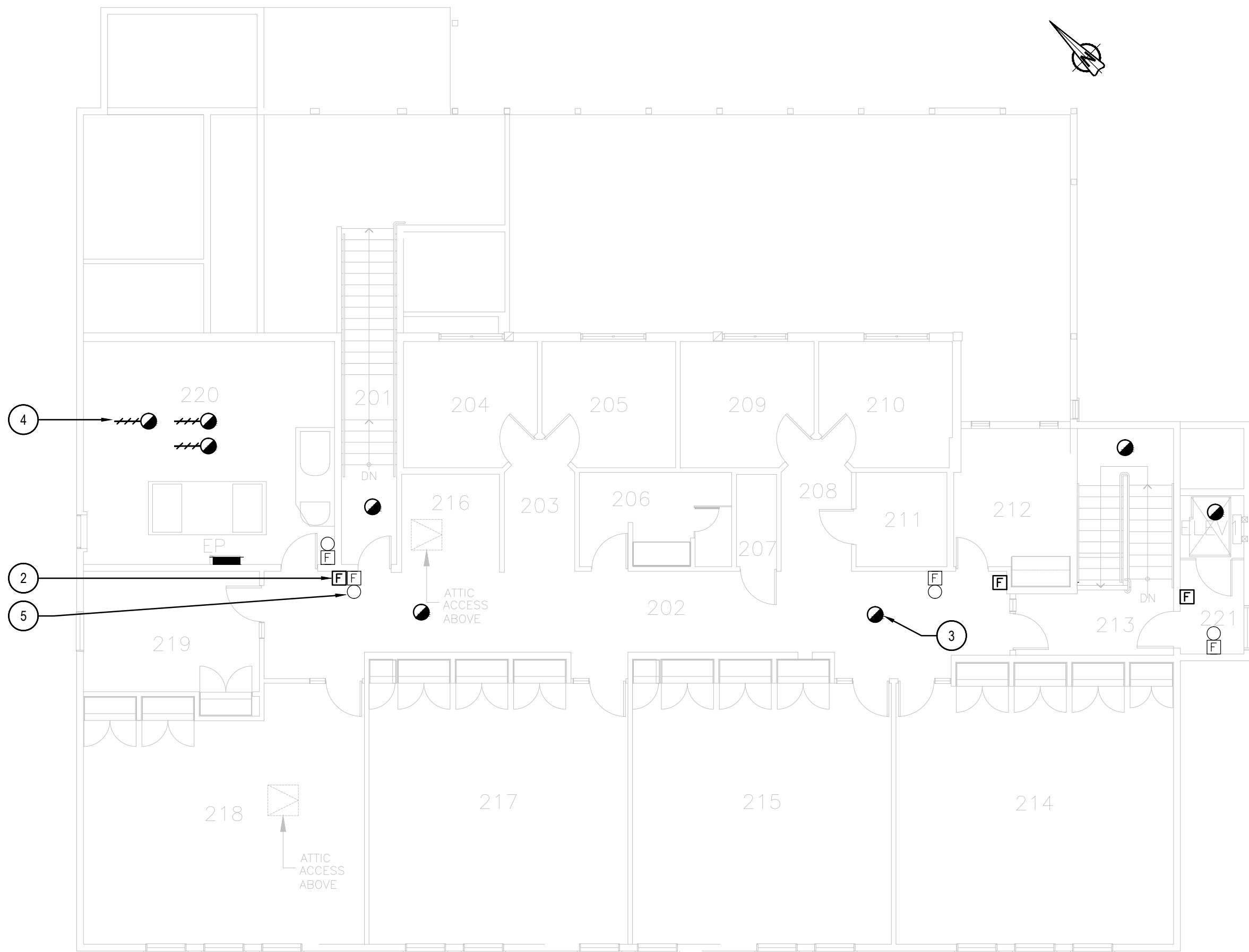
drawing no.  
dessiné no. **BC41\_E201**

KEY PLAN

**BUILDING BC41 - PROGRAM BUILDING**  
SCALE: 1:1000

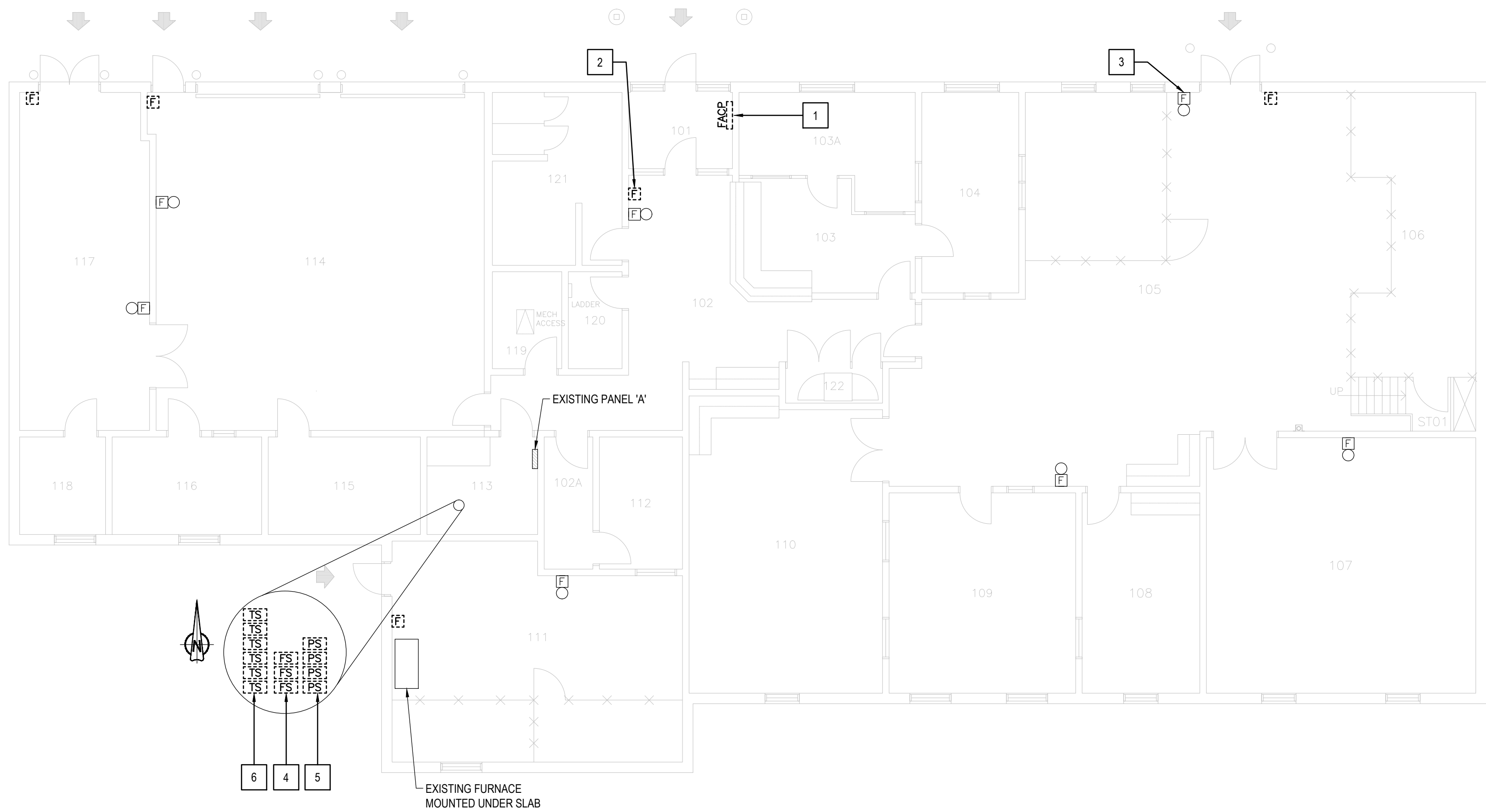


**2 FIRST FLOOR - NEW LAYOUT**  
SCALE: 1:100

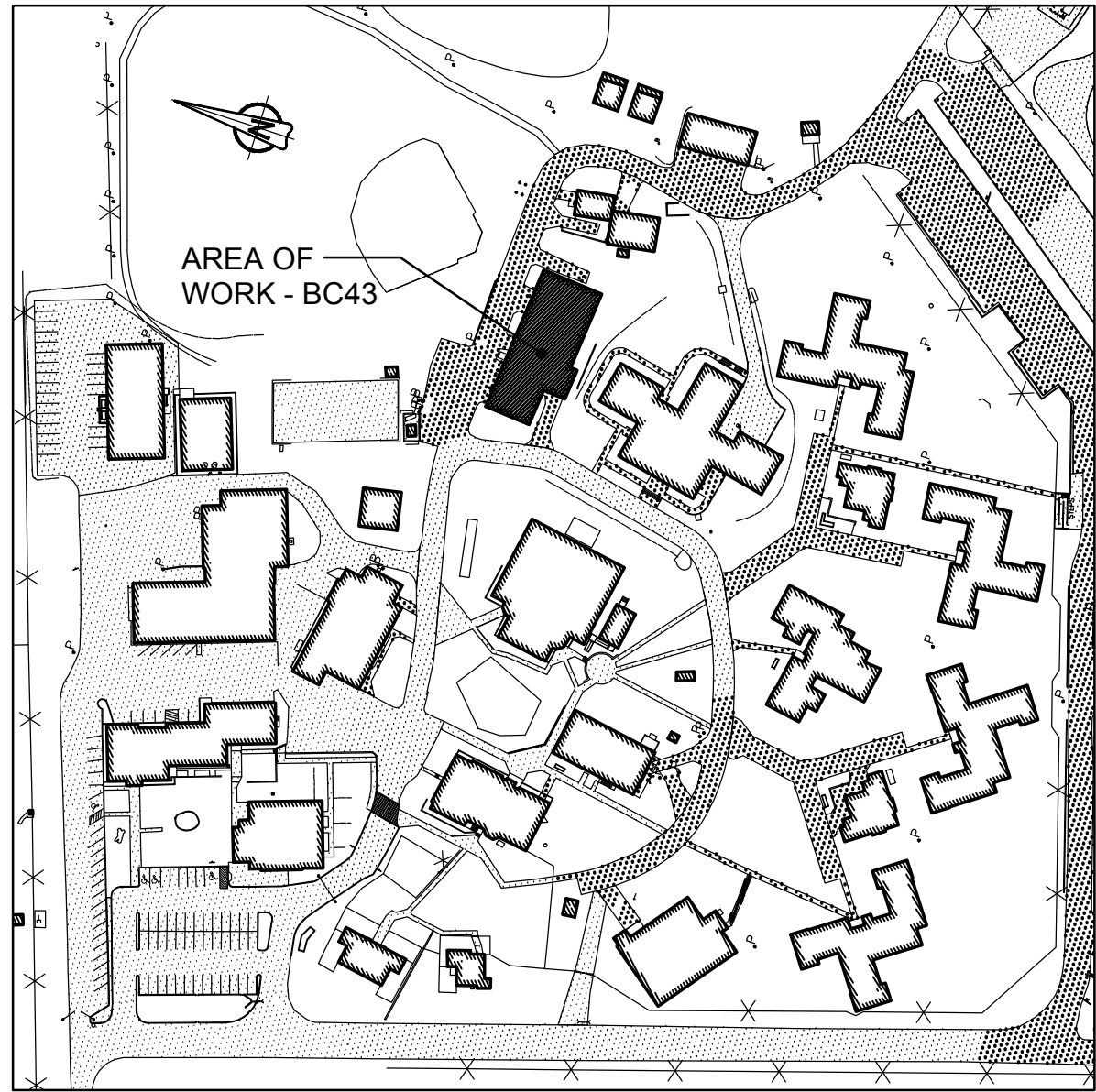


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SCALE: 1:100

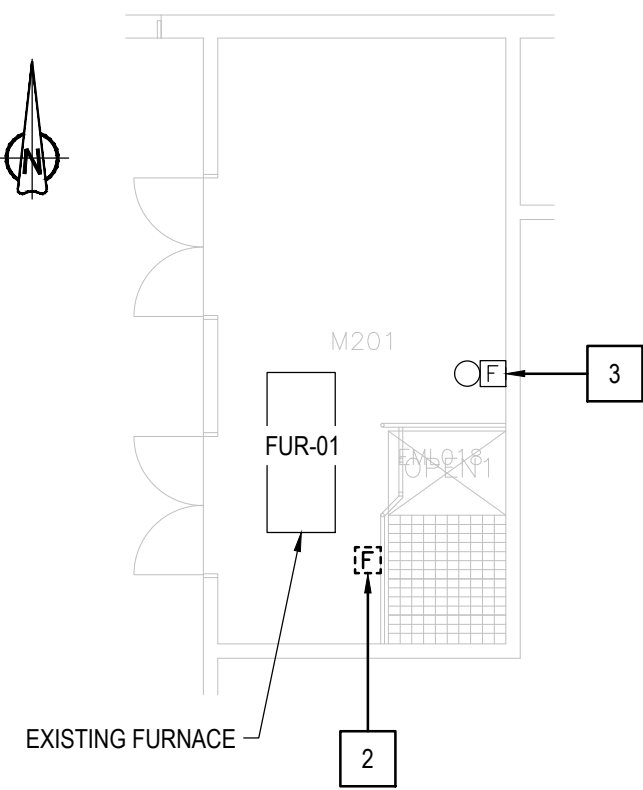




2 FIRST FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC43 - WORK BUILDING  
SCALE: 1:2000



3 MEZZANINE FLOOR - DEMOLITION LAYOUT  
SCALE: 1:100

GENERAL NOTES	
1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	TYPICAL OF SIX (6) EXISTING FIRE ALARM PULL STATION TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.
3	TYPICAL OF SEVEN (7) EXISTING FIRE ALARM BELL TO REMAIN.
4	TYPICAL OF THREE (3) EXISTING SPRINKLER FLOW SWITCH MONITOR MODULE TO BE REMOVED.
5	TYPICAL OF FOUR (4) EXISTING SPRINKLER PRESSURE SWITCH MONITOR MODULE TO BE REMOVED.
6	TYPICAL OF SIX (6) EXISTING TAMPER SWITCH MONITOR MODULE TO BE REMOVED.

ROOM INDEX	
101	VESTIBULE
102	CORRIDOR
102A	CORRIDOR
103	COUNTER / CLERICAL
103A	OFFICE
104	MAINTENANCE SUPERVISOR
105	GENERAL SHOP
106	MATERIAL STORAGE
107	WOOD SHOP
108	PAINT SHOP
109	OFFICE
110	STOCK ROOM
111	FORESTRY
112	FORESTRY OFFICE
113	MECHANICAL ROOM
114	GARAGE
115	GARAGE TOOL STORAGE
116	GROUPS / MECHANIC
117	GARDEN IMPL. / SMALL ENGINE REPAIR
118	PLUMBER OFFICE
119	WOMEN'S WASHROOM / HANDICAPPED
120	JANITOR ROOM
121	MEN'S WASHROOM
122	CLOSET
ST01	STAIR NO.1
201	MECHANICAL ROOM

FIRE ALARM ZONE SCHEDULE	
ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC43 GARAGE
ZONE 2	BUILDING BC43 GARDEN AND GROUNDS
ZONE 3	BUILDING BC43 SHOPS AND OFFICES
ZONE 4	BUILDING BC43 DUST COLLECTOR
ZONE 5	BUILDING BC43 MAIN WET SPRINKLER FLOW
ZONE 6	BUILDING BC43 DRY SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 7	BUILDING BC43 LOW PRESSURE WET SPRINKLER
ZONE 8	BUILDING BC43 GATE VALVE WET SPRINKLER
ZONE 9	BUILDING BC43 LOW PRESSURE DRY SPRINKLER
ZONE 10	BUILDING BC43 GATE VALVE DRY SPRINKLER



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**FIRE ALARM SYSTEM**  
**UPGRADE - PHASE II**  
drawing title  
titre du dessin  
**FIRE ALARM**  
**BC43-WORK BUILDING**  
**AND MECHANICAL ROOM**  
**FIRST FLOOR PLAN**  
**DEMOLITION LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

approved by  
approuvé par  
**JEFFREY DUBEAU**

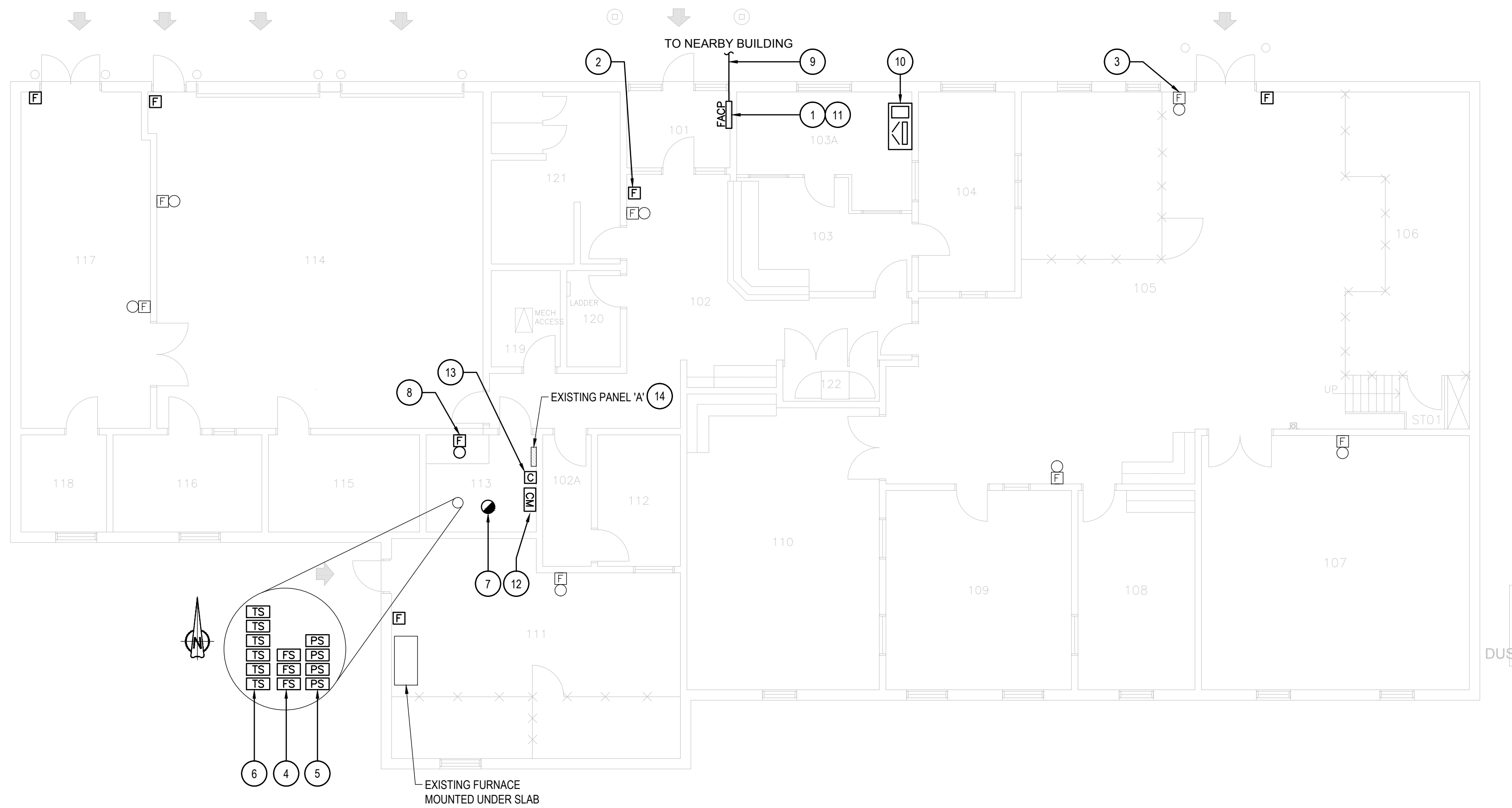
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offre  
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administrateur de projets

project date  
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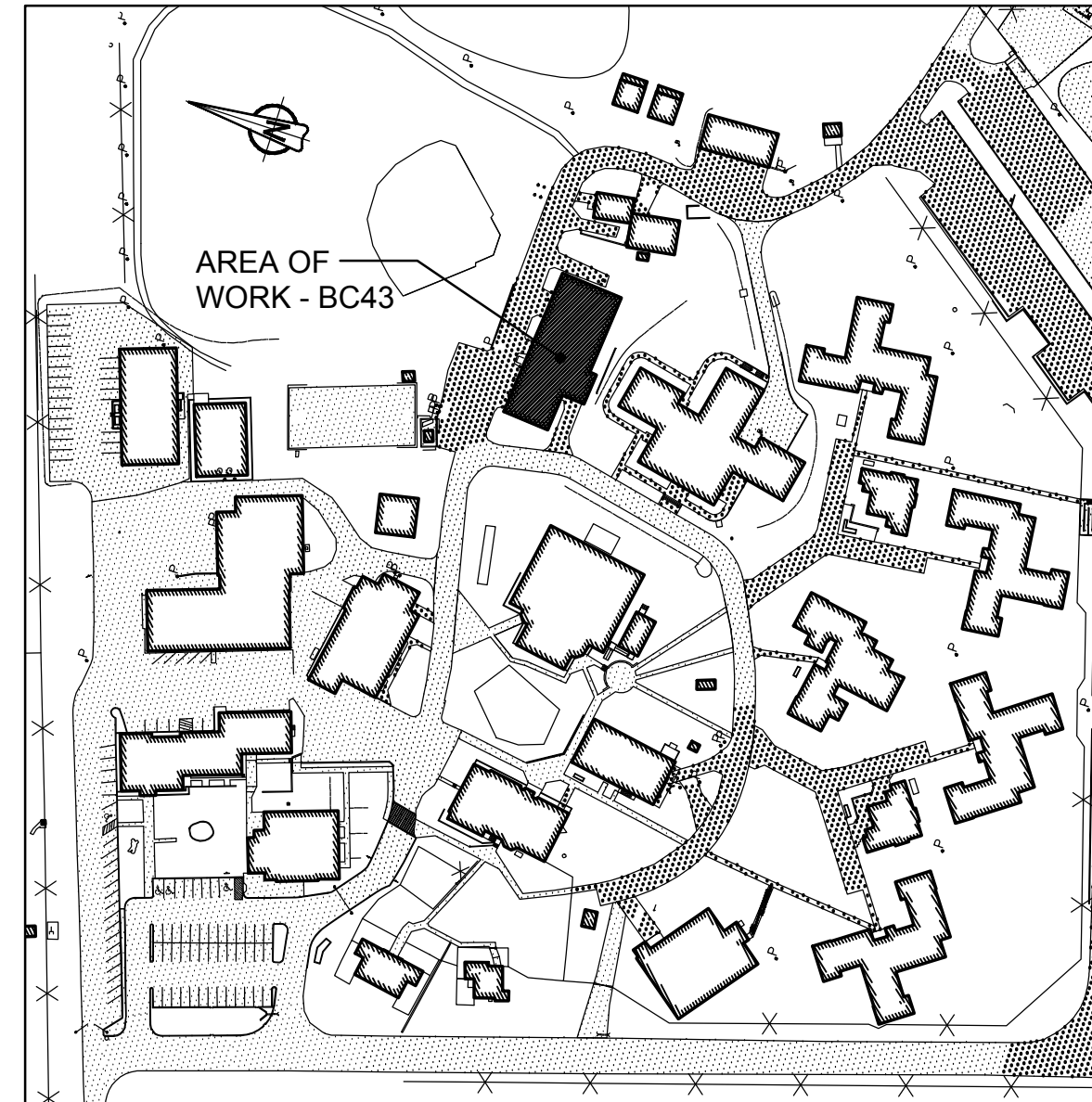
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**BC43\_E200**

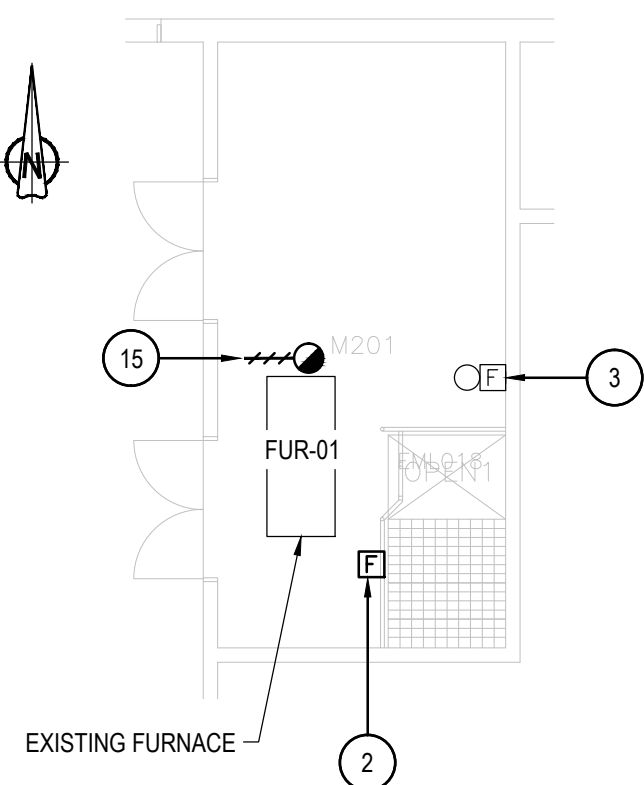




**2 FIRST FLOOR - NEW LAYOUT**  
SCALE: 1:100



**1 KEY PLAN**  
**BUILDING BC43 - WORK BUILDING**  
SCALE: 1:2000



**3 MEZZANINE FLOOR - NEW LAYOUT**  
SCALE: 1:100

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE AT EXISTING LOCATION. SINGLE STAGE SYSTEM FOR GROUP F, DIVISION 2 OCCUPANCIES. SPRINKLERED BUILDING. WIRE ALL CIRCUITS BACK TO NEW PANEL AND PROVIDE VERIFICATION REPORT. PREPARE WALL TO FIT NEW PANEL.
- TYPICAL OF SIX (6) NEW ADDRESSABLE FIRE ALARM PULL STATION TO BE INSTALLED AT A.F.F. 1150mm. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
- TYPICAL OF SEVEN (7) EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF THREE (3) PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT SPRINKLER FLOW SWITCH AND MAKE CONNECTION.
- TYPICAL OF FOUR (4) PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT PRESSURE SWITCH AND MAKE CONNECTION.
- TYPICAL OF SIX (6) PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT TAMPER SWITCH AND MAKE CONNECTION.
- PROVIDE NEW ADDRESSABLE SMOKE DETECTOR INSIDE MECHANICAL ROOM #113 AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE VERIFICATION REPORT.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING AND WIRE TO EXISTING FIRE ALARM BELL CIRCUIT. PROVIDE VERIFICATION REPORT.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC43 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANEL VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTION.
- RELOCATE FIRE ALARM FIREWORKS FROM ROOM #B11 IN BUILDING BC12 TO ROOM #103A AS SHOWN AND CONNECT TO FIRE ALARM CONTROL PANEL. UPGRADE FIREWORKS TO MAKE IT MONITOR FIRE ALARM SYSTEMS IN BOTH MINIMUM INSTITUTION AND MEDIUM INSTITUTION. PROVIDE NEW LASER PRINTER AND DISPLAYS. EXACT LOCATION OF FIREWORKS TO BE DETERMINED ON SITE WITH BCI.

- WIRE ALL ADDRESSABLE INITIATING DEVICES TOGETHER AND RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.
- PROVIDE ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE FIRE ALARM SHUTDOWN IN ROOM #111. WIRE TO FIRE ALARM SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.
- EXISTING PANEL 'A'. PROVIDE CONTACTOR FOR FURNACE (ROOM #111) CIRCUIT NUMBER A#45, 15A, 1P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
- EXISTING PANEL 'A'. PROVIDE A NEW 15A, 1P BREAKER IN SUB-PANEL OF PANEL 'A'. PANEL 'B' AND 'C' FOR TRANSFORMER 120V INPUT CIRCUIT. ANNOTATE CIRCUIT NUMBER ON AS-BUILT DRAWING AND UPDATE PANEL DIRECTORY. CONTRACTOR TO LOCATE PANEL 'B' AND 'C' ON SITE.
- PROVIDE AN ADDRESSABLE DUTY TYPE SMOKE DETECTOR AT DOWN SIDE OF SUPPLY FAN OF AIR HANDLER UNIT. WIRE DETECTOR TO THE NEAREST CIRCUIT AND FAN SHUTDOWN (CONTROL PANEL).

### ROOM INDEX

101	VESTIBULE
102	CORRIDOR
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109	OFFICE
110	STOCK ROOM
111	FORESTRY
112	FORESTRY OFFICE
113	MECHANICAL ROOM
114	GARAGE
115	GARAGE TOOL STORAGE
116	GROUPS / MECHANIC
117	GARDEN IMPL. / SMALL ENGINE REPAIR
118	PLUMBER OFFICE
119	WOMEN'S WASHROOM / HANDICAPPED
120	JANITOR ROOM
121	MEN'S WASHROOM
122	CLOSET
ST01	STAIR NO.1
201	MECHANICAL ROOM

### FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC43 GARAGE
ZONE 2	BUILDING BC43 GARDEN AND GROUNDS
ZONE 3	BUILDING BC43 SHOPS AND OFFICES
ZONE 4	BUILDING BC43 DUST COLLECTOR
ZONE 5	BUILDING BC43 MAIN WET SPRINKLER FLOW
ZONE 6	BUILDING BC43 DRY SPRINKLER FLOW
SUPERVISORY SIGNALS	
ZONE 7	BUILDING BC43 LOW PRESSURE WET SPRINKLER
ZONE 8	BUILDING BC43 GATE VALVE WET SPRINKLER
ZONE 9	BUILDING BC43 LOW PRESSURE DRY SPRINKLER
ZONE 10	BUILDING BC43 GATE VALVE DRY SPRINKLER



Public Works and  
Government Services Canada  
Travaux publics et  
Services gouvernementaux Canada

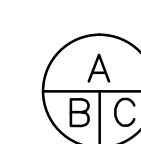


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revision		date

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project title  
titre du projet  
**Gravenhurst Ontario**

**BEAVER CREEK INSTITUTION**

**FIRE ALARM SYSTEM  
UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM  
BC43-WORK BUILDING  
AND MECHANICAL ROOM  
FIRST FLOOR PLAN  
NEW LAYOUT**

drawn by  
dessiné par **D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par **MIKE XU**

approved by  
approuvé par **JEFFREY DUBEAU**

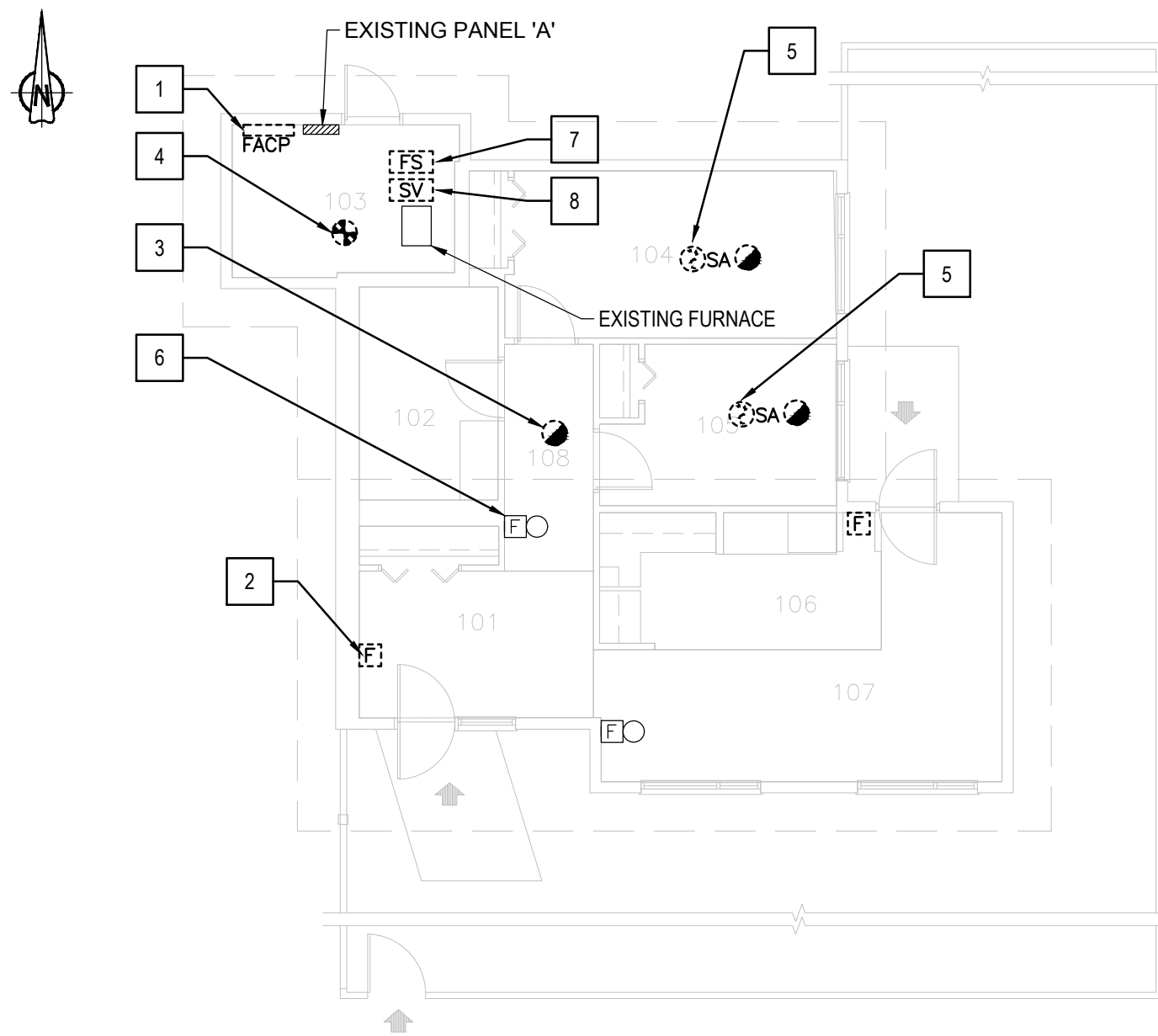
bid  
offre **G.G.** project manager  
administrateur  
de projets

project date  
date du projet **2018-01-19**

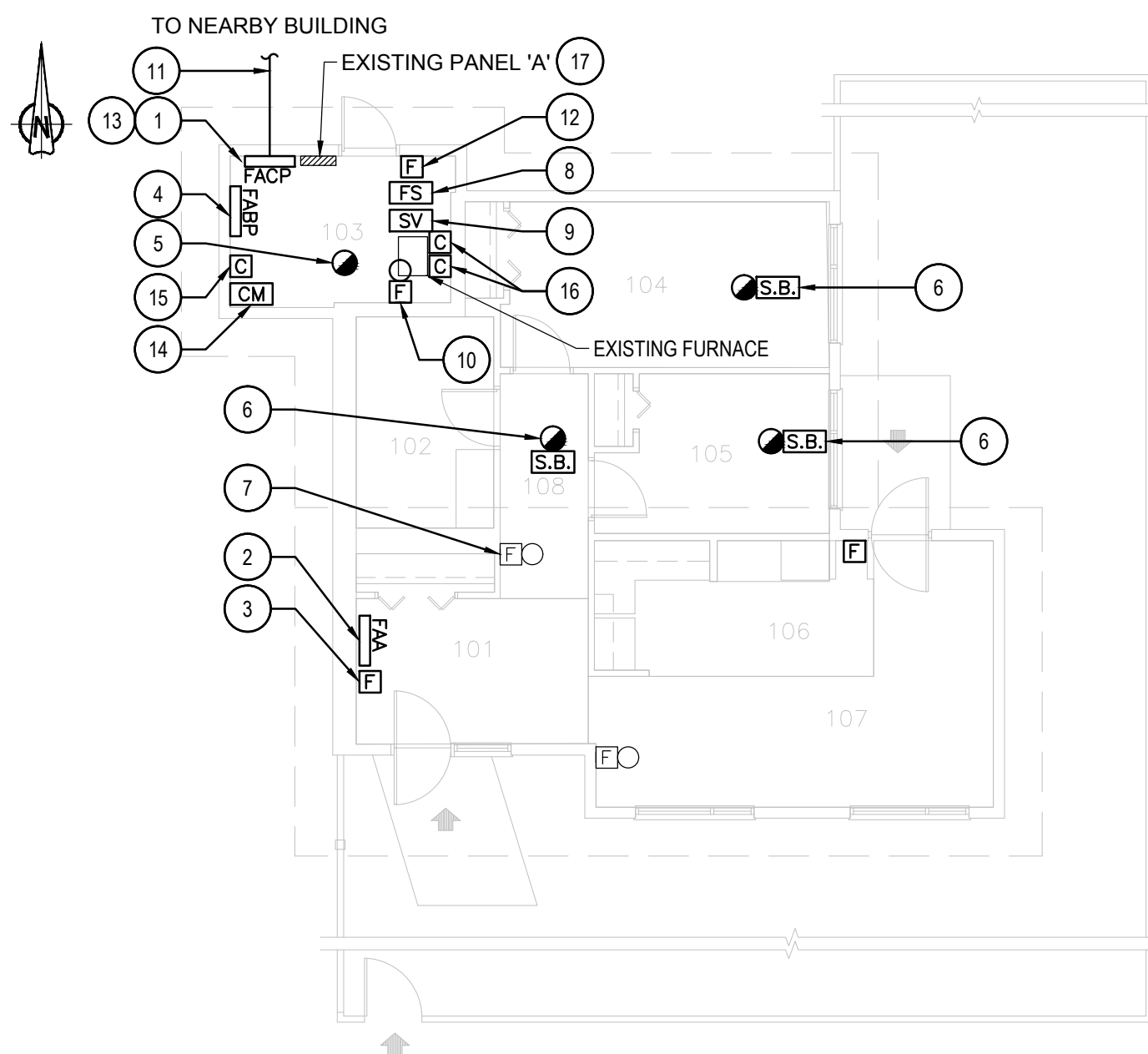
project no.  
no. du projet **R.080201.001**

drawing no.  
dessiné no. **BC43\_E201**





**2 GROUND FLOOR - DEMOLITION LAYOUT**  
SCALE: 1:100



**3 GROUND FLOOR - NEW LAYOUT**  
SCALE: 1:100

#### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE. NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

#### DRAWING NOTES - DEMOLITION

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST QUICKSTART QS1 TO BE REMOVED. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
- TYPICAL OF TWO (2)  
EXISTING FIRE ALARM PULL STATION TO BE REMOVED. KEEP EXISTING WIRES FOR NEW CONNECTION.
- TYPICAL OF THREE (3)  
EXISTING FIRE ALARM SMOKE DETECTOR TO BE REMOVED.
- EXISTING FIRE ALARM HEAT DETECTOR TO BE REMOVED.
- TYPICAL OF TWO (2)  
EXISTING FIRE ALARM SMOKE ALARM TO BE REMOVED. COVER BACK BOX WITH BLANK COVER PLATE.
- TYPICAL OF TWO (2)  
EXISTING FIRE ALARM BELL TO REMAIN.
- EXISTING SPRINKLER FLOW SWITCH MONITOR MODULE TO BE REMOVED.
- EXISTING VALVE SUPERVISORY SWITCH MONITOR MODULE TO BE REMOVED.

#### DRAWING NOTES - NEW

- NEW FIRE ALARM CONTROL PANEL TO BE CHUBB EDWARDS EST3X C/W DISPLAY MODULE AT EXISTING LOCATION. SINGLE STAGE SYSTEM FOR GROUP C OCCUPANCIES, SPRINKLERED BUILDING. PREPARE WALL TO SUIT NEW PANEL.
- NEW FIRE ALARM REMOTE ANNUNCIATOR AT ENTRANCE. WIRE TO NEW CONTROL PANEL IN MECHANICAL ROOM #103. REFER TO FIRE ALARM ZONE SCHEDULE FOR FIRE ALARM ZONE DETAILS. PROVIDE DISPLAY MODULES.
- TYPICAL OF TWO (2)  
NEW ADDRESSABLE FIRE ALARM PULL STATION TO BE INSTALLED AT A.F.F. 1150mm. EXTEND WIRES C/W CONDUIT TO SUIT NEW LOCATION. PROVIDE COVER PLATE FOR EXISTING BACK BOX AND REPAIR WALL AFTER INSTALLATION.
- PROVIDE BOOSTER POWER SUPPLY CHUBB EDWARDS# BPS10AC FOR SOUNDER BASE CIRCUITS AND WIRE TO EXISTING FIRE ALARM CONTROL PANEL. PROVIDE 120V POWER CONNECTION TO BOOSTER POWER SUPPLY FROM EXISTING FIRE ALARM CONTROL PANEL 120V POWER SOURCE.
- NEW ADDRESSABLE FIRE ALARM SMOKE DETECTOR TO BE INSTALLED IN EXISTING LOCATION. PROVIDE TWO (2) ISOLATOR MODULES FOR MECHANICAL ROOM FIRE ALARM ZONE.
- TYPICAL OF TWO (2)  
PROVIDE NEW ADDRESSABLE SMOKE DETECTOR C/W FIRE ALARM SOUNDER BASE IN SLEEPING ROOM AND WIRE TO EXISTING FIRE ALARM CIRCUIT. PROVIDE SEPARATE 24V CIRCUIT FOR SOUNDER BASE AND RUN #16 AWG WIRES C/W CONDUIT BACK TO FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00\_E102 FOR DETAILS.
- TYPICAL OF THREE (3)  
EXISTING FIRE ALARM BELL TO REMAIN.
- PROVIDE NEW SINGLE INPUT ADDRESSABLE MODULE AT FLOW SWITCH AND MAKE CONNECTION.
- PROVIDE NEW SINGLE INPUT ADDRESSABLE MODULE AT VALVE SUPERVISORY SWITCH AND MAKE CONNECTION.
- PROVIDE NEW FIRE ALARM BELL TO MATCH EXISTING AND WIRE TO EXISTING FIRE ALARM BELL CIRCUIT.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC53 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANEL VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.
- PROVIDE NEW ADDRESSABLE PULL STATION AND WIRE TO EXISTING FIRE ALARM INITIATING CIRCUIT.
- RUN RETURN WIRES FROM THE LAST INITIATING DEVICE BACK TO CONTROL PANEL IN SEPARATE EMT CONDUIT TO FORM A CLOSED LOOP FOR INITIATING CIRCUIT.
- PROVIDE THREE (3) FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE, COUNTER TOP STOVE, AND OVEN.
- PROVIDE CONTACTOR FOR FURNACE CIRCUIT NUMBER A#9, 15A, 1P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
- TYPICAL OF TWO (2):  
PROVIDE CONTACTOR FOR COUNTER TOP STOVE AND OVEN CIRCUIT NUMBER A#39/41 AND A#40/42, 40A, 2P.
- PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'A' FOR TRANSFORMER 120V INPUT CIRCUIT, CIRCUIT NUMBER A#21.



**KEY PLAN  
BUILDING BC53 - NEW PRIVATE  
FAMILY VISIT UNIT**  
SCALE: 1:2000

#### SEQUENCE OF ACTIVATION OF FREE EGRESS LIVING UNITS

- SMOKE DETECTORS IN LIVING UNITS, AS CONFORMING TO NBCC 3.2.4.21.(8) SHALL, UPON SMOKE DETECTION:
  - SOUND AN ALARM SIGNAL THROUGHOUT THE SUITE / LIVING UNIT OF OPERATION. THIS ALARM SIGNAL SHALL BE DIFFERENT IN SOUND FROM THE BUILDING FIRE ALARM SIGNAL.
  - ANNUNCIATE ON THE FIRE ALARM CONTROL PANEL AS WELL AS ALL OTHER ANNUNCIATORS CONNECTED TO THE SYSTEM (e.g. MCCP / DUTY OFFICE) AS A NON-LATCHING TROUBLE CONDITION.
  - THE SMOKE ALARM SIGNAL IN THE SUITE / LIVING UNIT SHALL SILENCE IF / WHEN THE SMOKE CLEARS.
  - RECORD THE EVENT ON THE PRINTER(S) REFERRED TO TCD E6, 8.1.
- SMOKE DETECTORS ELSEWHERE IN THE BUILDING OR ELSEWHERE REQUIRED TO MEET NBCC REQUIREMENTS (ex. STAIRWELL SMOKE DETECTORS) SHALL OPERATE THE FIRE ALARM SYSTEM AS REQUIRED AS SHALL ANY OTHER FIRE ALARM INITIATION DEVICE.
- IN ALL CASES, THE FIRE ALARM EVACUATION SIGNAL SHALL TAKE PRECEDENCE OVER ANY OTHER SIGNAL.

#### FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC53 GROUND FLOOR
ZONE 2	BUILDING BC53 MECHANICAL ROOM
ZONE 3	BUILDING BC53 SPRINKLER FLOW SWITCH MECHANICAL ROOM
SUPERVISORY SIGNALS	
ZONE 4	BUILDING BC53 SPRINKLER VALVE MECHANICAL ROOM

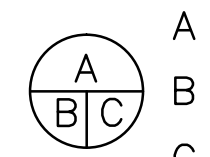
#### ROOM INDEX

101	ENTRY
102	BATHROOM
103	MECHANICAL ROOM
104	BEDROOM 1
105	BEDROOM 2
106	KITCHEN
107	DINING / LIVING ROOM
108	HALL



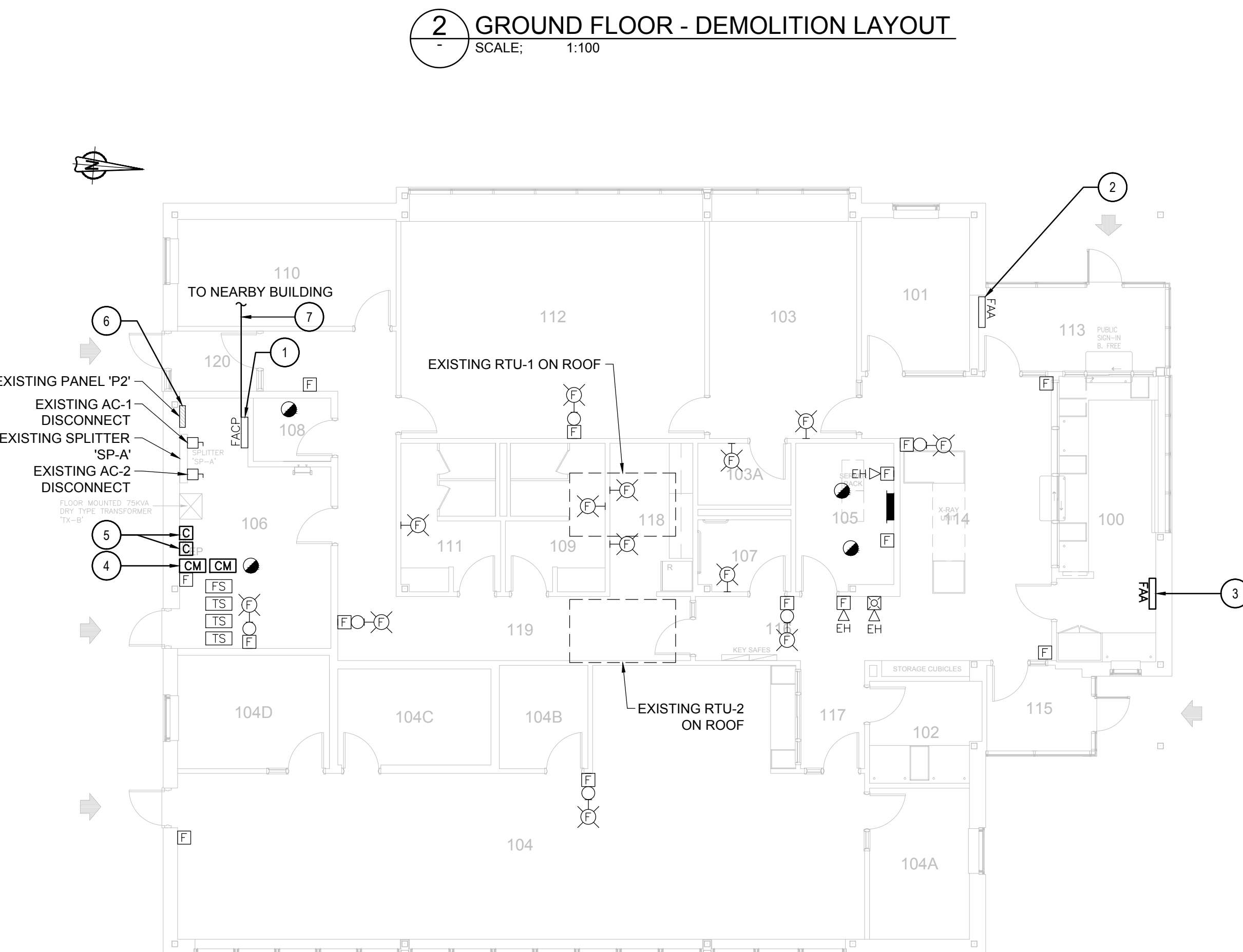
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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC53-NEW PRIVATE FAMILY VISITS UNIT GROUND FLOOR PLAN DEMOLITION AND NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	BC53_E200	





3 GROUND FLOOR - NEW LAYOUT  
- SCALE: 1:100

1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6.	DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST. OF BC55 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP D OCCUPANCIES.
2	EXISTING FIRE ALARM REMOTE ANNUNCIATOR OF BC55 TO REMAIN.
3	EXISTING FIRE ALARM REMOTE ANNUNCIATOR OF MINIMUM INSTITUTION TO BE REMOVED.

1	EXISTING FIRE ALARM CONTROL PANEL OF BC55 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP D OCCUPANCIES. SPRINKLERED BUILDING. EXISTING FIRE ALARM CONTROL PANEL IS CONNECTED BY OPTICAL FIBRE CABLE.
2	EXISTING FIRE ALARM REMOTE ANNUNCIATOR OF BC55 TO REMAIN. REFER TO FIRE ALARM ZONE SCHEDULE FOR FIRE ALARM ZONE DETAILS.
3	PROVIDE NEW ANNUNCIATOR PANEL CHUBB EDWARDS EST3 HANDING CONTROL/DISPLAY MODULES TO SHOW ALL FIRE ZONES OF ALARM/SUPERVISORY SIGNAL STATUS OF BUILDINGS IN MINIMUM INSTITUTION. REFER TO DRAWING BC55_E201 AND BC55_E202 FOR FIRE ALARM ZONE DETAILS. COORDINATE EXACT LOCATION WITH BC1 ONSITE. RELOCATE EXISTING SHELVES IN POST TO SUIT NEW PANEL.
4	TYPICAL OF TWO (2): PROVIDE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SISG-CR FOR ROOF TOP UNIT RTU-1 AND RTU-2 FIRE ALARM SHUTDOWN. WIRE TO SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAILS.
5	TYPICAL OF TWO (2): PROVIDE CONTACTOR FOR ROOF TOP UNIT RTU-1 AND RTU-2 CIRCUIT 600V, 3Ø, 3ØA.
6	PROVIDE 120/240V TRANSFORMER INPUT CIRCUIT FROM SPARE 15A, 1P BREAKER IN PANEL "P2", CIRCUIT NUMBER P2#11. 120/240V TRANSFORMER FOR CONTROL CIRCUIT BY ELECTRICAL.
7	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC55 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.


ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC55 GROUND FLOOR
ZONE 2	BUILDING BC55 MECHANICAL AND ELECTRICAL ROOM
ZONE 3	BUILDING BC55 SPRINKLER FLOW
ZONE 4	BUILDING BC55 SYSTEM EQUIPMENT ROOM
ZONE 5	BUILDING BC55 SYSTEM EQUIPMENT ROOM PRE-RELEASE
ZONE 6	BUILDING BC55 SYSTEM EQUIPMENT ROOM SUPPRESSION RELEASE
SUPERVISORY SIGNALS	
ZONE 7	BUILDING BC55 CHECK VALVE INLET
ZONE 8	BUILDING BC55 CHECK VALVE OUTLET
ZONE 9	BUILDING BC55 MAIN SPRINKLER VALVE
ZONE 10	BUILDING BC55 BOOSTER POWER SUPPLY TROUBLE



100	24-HOUR DUTY POST
101	CORRECTIONAL MANAGER
102	INTERVIEW ROOM
103	VICTIMS / GENERAL WAITING
103A	WASHROOM
104	FINANCE OFFICE
104A	FINANCE ANALYST GENERAL ACCOUNTS
104B	OFFICE EQUIPMENT
104C	ACCOUNTS ROOM
104D	CHIEF FINANCE OFFICE
105	SYSTEMS EQUIPMENT ROOM
106	MECHANICAL / ELECTRICAL ROOM
107	BARRIER FREE WASHROOM
108	JANITOR CLOSET
109	MEN'S WASHROOM
110	SVW INMATE
111	WOMEN'S WASHROOM
112	NPB HEARING ROOM
113	VESTIBULE
114	RECEPTION / WAITING
115	VESTIBULE
116	CORRIDOR
117	RECEPTION
118	KITCHEN
119	CORRIDOR
120	VESTIBULE



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project title	
titre du projet	

Gravenhurst Ontario

BEAVER CREEK INSTITUTION

# FIRE ALARM SYSTEM UPGRADE – PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC55—PRINCIPLE ENTRANCE  
GROUND FLOOR PLAN

## DEMOLITION & NEW LAYOUT

drawn by  
dessine par

designed by  
conc par

approved by  
approuvé par **JEFFREY DUBEAU**

bid		project manager
offre	G.G.	administrateur de projets

project date date du projet	2018-01-19
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project no. no. du projet	R.080201.001
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drawing no.  
dessine no.

BC55\_E200




FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC03 CORCAN ALARM
ZONE 2	BUILDING BC05 FOOD SERVICES 1ST AND 2ND FLOORS
ZONE 3	BUILDING BC05 STORES FIRST FLOOR
ZONE 4	BUILDING BC05 STORES SECOND FLOOR
ZONE 5	BUILDING BC05 STORES/FOOD DISTRIBUTIONSPRINKLER FLOW WET
ZONE 6	BUILDING BC05 STORES/FOOD DISTRIBUTION SPRINKLER FLOW DRY
ZONE 7	BUILDING BC10 CHAPEL GROUND FLOOR
ZONE 8	BUILDING BC10 CHAPEL BASEMENT
ZONE 9	BUILDING BC12 ACTIVITY LOWER FLOOR
ZONE 10	BUILDING BC12 ACTIVITY UPPER FLOOR
ZONE 11	BUILDING BC12 ACTIVITY OLD SEG
ZONE 12	BUILDING BC12 ACTIVITY STAIR 01
ZONE 13	BUILDING BC12 ACTIVITY ELEVATOR SHAFT
ZONE 14	BUILDING BC12 ACTIVITY STAIR 02
ZONE 15	BUILDING BC12 ACTIVITY DUCT DETECTORS
ZONE 16	BUILDING BC12 ACTIVITY UPPER FLOOR WEST SPRINKLER FLOW
ZONE 17	BUILDING BC12 ACTIVITY UPPER FLOOR EAST SPRINKLER FLOW
ZONE 18	BUILDING BC12 ACTIVITY LOWER FLOOR SPRINKLER FLOW
ZONE 19	BUILDING BC13 HEALTHCARE
ZONE 20	BUILDING BC13 COMMUNICATION ROOM
ZONE 21	BUILDING BC13 S.I.S.
ZONE 22	BUILDING BC13 SPRINKLER FLOW
ZONE 23	BUILDING BC13 ATTIC SPRINKLER FLOW
ZONE 24	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR B RANGE
ZONE 25	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR C RANGE
ZONE 26	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR A RANGE
ZONE 27	BUILDING BC14 ACCOMODATION 1 GROUND FLOOR CENTER AREA
ZONE 28	BUILDING BC14 ACCOMODATION 1 2ND FLOOR B RANGE
ZONE 29	BUILDING BC14 ACCOMODATION 1 2ND FLOOR C RANGE
ZONE 30	BUILDING BC14 ACCOMODATION 1 2ND FLOOR A RANGE
ZONE 31	BUILDING BC14 ACCOMODATION 1 2ND FLOOR CENTER AREA
ZONE 32	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 011
ZONE 33	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 003
ZONE 34	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 008
ZONE 35	BUILDING BC14 ACCOMODATION 1 2ND FLOOR STAIR 001
ZONE 36	BUILDING BC14 ACCOMODATION 1 SPRINKLER FLOW 1 GROUND FLOOR
ZONE 37	BUILDING BC14 ACCOMODATION 1 SPRINKLER FLOW 2 2ND FLOOR
ZONE 38	BUILDING BC15 RECREATION/GYM ALARM
ZONE 39	BUILDING BC16 ADMINISTRATION MAIN FLOOR NORTH
ZONE 40	BUILDING BC16 ADMINISTRATION BASEMENT STORAGE ROOM
ZONE 41	BUILDING BC16 ADMINISTRATION STAIRWELL EAST
ZONE 42	BUILDING BC16 ADMINISTRATION MAIN FLOOR MECHANICAL ROOM
ZONE 43	BUILDING BC16 ADMINISTRATION BASEMENT MECHANICAL ROOM
ZONE 44	BUILDING BC16 ADMINISTRATION MAIN FLOOR SOUTH
ZONE 45	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR J RANGE
ZONE 46	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR K RANGE
ZONE 47	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR L RANGE
ZONE 48	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 49	BUILDING BC18 ACCOMMODATION #4 2ND FLOOR CORRIDOR
ZONE 50	BUILDING BC18 ACCOMMODATION #4 2ND FLOOR J RANGE
ZONE 51	BUILDING BC18 ACCOMMODATION #4 2ND FLOOR L RANGE
ZONE 52	BUILDING BC18 ACCOMMODATION #4 2ND FLOOR K RANGE
ZONE 53	BUILDING BC18 ACCOMMODATION #4 DUCT DETECTORS
ZONE 54	BUILDING BC18 ACCOMMODATION #4 MAIN STAIRWELL
ZONE 55	BUILDING BC18 ACCOMMODATION #4 STAIRWELL L RANGE
ZONE 56	BUILDING BC18 ACCOMMODATION #4 STAIRWELL K RANGE
ZONE 57	BUILDING BC18 ACCOMMODATION #4 STAIRWELL J RANGE
ZONE 58	BUILDING BC18 ACCOMMODATION #4 ATTIC SPRINKLER FLOW

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 59	BUILDING BC18 ACCOMMODATION #4 MAIN SPRINKLER FLOW
ZONE 60	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR SPRINKLER FLOW
ZONE 61	BUILDING BC18 ACCOMMODATION #4 2ND FLOOR SPRINKLER FLOW
ZONE 62	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR M RANGE
ZONE 63	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR N RANGE
ZONE 64	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR O RANGE
ZONE 65	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 66	BUILDING BC19 ACCOMMODATION #5 2ND FLOOR CORRIDOR
ZONE 67	BUILDING BC19 ACCOMMODATION #5 2ND FLOOR M RANGE
ZONE 68	BUILDING BC19 ACCOMMODATION #5 2ND FLOOR N RANGE
ZONE 69	BUILDING BC19 ACCOMMODATION #5 2ND FLOOR O RANGE
ZONE 70	BUILDING BC19 ACCOMMODATION #5 DUCT DETECTORS
ZONE 71	BUILDING BC19 ACCOMMODATION #5 MAIN STAIRWELL
ZONE 72	BUILDING BC19 ACCOMMODATION #5 STAIRWELL M RANGE
ZONE 73	BUILDING BC19 ACCOMMODATION #5 STAIRWELL N RANGE
ZONE 74	BUILDING BC19 ACCOMMODATION #5 STAIRWELL O RANGE
ZONE 75	BUILDING BC19 ACCOMMODATION #5 ATTIC SPRINKLER FLOW
ZONE 76	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR SPRINKLER FLOW
ZONE 77	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 78	BUILDING BC19 ACCOMMODATION #5 2ND FLOOR SPRINKLER FLOW
ZONE 79	BUILDING BC20 NEIGHBORHOOD #2 GROUND FLOOR
ZONE 80	BUILDING BC23 NEIGHBORHOOD #1 GROUND FLOOR
ZONE 81	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR H RANGE
ZONE 82	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR G RANGE
ZONE 83	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR I RANGE
ZONE 84	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 85	BUILDING BC24 ACCOMMODATION #3 2ND FLOOR CORRIDOR
ZONE 86	BUILDING BC24 ACCOMMODATION #3 2ND FLOOR H RANGE
ZONE 87	BUILDING BC24 ACCOMMODATION #3 2ND FLOOR G RANGE
ZONE 88	BUILDING BC24 ACCOMMODATION #3 2ND FLOOR I RANGE
ZONE 89	BUILDING BC24 ACCOMMODATION #3 DUCT DETECTORS
ZONE 90	BUILDING BC24 ACCOMMODATION #3 MAIN STAIRWELL
ZONE 91	BUILDING BC24 ACCOMMODATION #3 STAIRWELL H RANGE
ZONE 92	BUILDING BC24 ACCOMMODATION #3 STAIRWELL G RANGE
ZONE 93	BUILDING BC24 ACCOMMODATION #3 STAIRWELL I RANGE
ZONE 94	BUILDING BC24 ACCOMMODATION #3 ATTIC SPRINKLER FLOW
ZONE 95	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR SPRINKLER FLOW
ZONE 96	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 97	BUILDING BC24 ACCOMMODATION #3 2ND FLOOR SPRINKLER FLOW
ZONE 98	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR D RANGE
ZONE 99	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR E RANGE
ZONE 100	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR F RANGE
ZONE 101	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR CORRIDOR AND MECHANICAL ROOM
ZONE 102	BUILDING BC25 ACCOMMODATION #2 2ND FLOOR CORRIDOR
ZONE 103	BUILDING BC25 ACCOMMODATION #2 2ND FLOOR D RANGE
ZONE 104	BUILDING BC25 ACCOMMODATION #2 2ND FLOOR E RANGE
ZONE 105	BUILDING BC25 ACCOMMODATION #2 2ND FLOOR F RANGE
ZONE 106	BUILDING BC25 ACCOMMODATION #2 DUCT DETECTORS
ZONE 107	BUILDING BC25 ACCOMMODATION #2 MAIN STAIRWELL
ZONE 108	BUILDING BC25 ACCOMMODATION #2 STAIRWELL D RANGE
ZONE 109	BUILDING BC25 ACCOMMODATION #2 STAIRWELL E RANGE
ZONE 110	BUILDING BC25 ACCOMMODATION #2 STAIRWELL F RANGE
ZONE 111	BUILDING BC25 ACCOMMODATION #2 ATTIC SPRINKLER FLOW
ZONE 112	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR SPRINKLER FLOW
ZONE 113	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR AND 2ND FLOOR SPRINKLER FLOW
ZONE 114	BUILDING BC25 ACCOMMODATION #2 2ND FLOOR SPRINKLER FLOW
ZONE 115	BC39 VOCATIONAL PROGRAMS GROUND FLOOR


FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 116	BUILDING BC40 FAMILY VISITS GROUND FLOOR UNIT A
ZONE 117	BUILDING BC40 FAMILY VISITS GROUND FLOOR UNIT B
ZONE 118	BUILDING BC40 FAMILY VISITS BASEMENT
ZONE 119	BUILDING BC40 FAMILY VISITS DUCT SMOKE DETECTOR UNIT A BASEMENT
ZONE 120	BUILDING BC40 FAMILY VISITS DUCT SMOKE DETECTOR UNIT B BASEMENT
ZONE 121	BUILDING BC40 FAMILY VISITS SPRINKLER FLOW SWITCH UNIT A BASEMENT
ZONE 122	BUILDING BC40 FAMILY VISITS SPRINKLER FLOW SWITCH BASEMENT NORTH
ZONE 123	BUILDING BC40 FAMILY VISITS SPRINKLER FLOW SWITCH UNIT B BASEMENT
ZONE 124	BUILDING BC40 FAMILY VISITS SPRINKLER FLOW SWITCH BASEMENT SOUTH
ZONE 125	BUILDING BC41 PROGRAM GROUND FLOOR PULL STATIONS
ZONE 126	BUILDING BC41 PROGRAM 2ND FLOOR PULL STATIONS
ZONE 127	BUILDING BC41 PROGRAM MECHANICAL ROOM PULL STATIONS
ZONE 128	BUILDING BC41 PROGRAM ELECTRICAL ROOM PULL STATIONS
ZONE 129	BUILDING BC41 PROGRAM STAIRWELL #1
ZONE 130	BUILDING BC41 PROGRAM STAIRWELL #2
ZONE 131	BUILDING BC41 PROGRAM GROUND FLOOR ELEVATOR LOBBY
ZONE 132	BUILDING BC41 PROGRAM 2ND FLOOR SPRINKLER FLOW
ZONE 133	BUILDING BC41 PROGRAM GROUND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 134	BUILDING BC41 PROGRAM GROUND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 135	BUILDING BC41 PROGRAM 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 136	BUILDING BC41 PROGRAM 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 137	BUILDING BC41 PROGRAM 2ND FLOOR MECHANICAL ROOM DUCT SMOKE DETECTOR
ZONE 138	BUILDING BC41 PROGRAM ELEVATOR SHAFT
ZONE 139	BUILDING BC41 PROGRAM GROUND FLOOR CORRIDOR SMOKE DETECTORS
ZONE 140	BUILDING BC41 PROGRAM 2ND FLOOR CORRIDOR SMOKE DETECTORS
ZONE 141	BUILDING BC41 PROGRAM GROUND FLOOR SPRINKLER FLOW
ZONE 142	BUILDING BC41 PROGRAM MAIN SPRINKLER FLOW
ZONE 143	BUILDING BC41 PROGRAM GROUND FLOOR ELEVATOR MACHINE ROOM
ZONE 144	BUILDING BC43 WORKS GARAGE
ZONE 145	BUILDING BC43 WORKS GARDEN AND GROUNDS
ZONE 146	BUILDING BC43 WORKS SHOPS AND OFFICES
ZONE 147	BUILDING BC43 WORKS DUST COLLECTOR
ZONE 148	BUILDING BC43 WORKS MAIN WET SPRINKLER FLOW
ZONE 149	BUILDING BC43 WORKS DRY SPRINKLER FLOW
ZONE 150	BUILDING BC53 NEW PRIVATE FAMILY VISITS GROUND FLOOR
ZONE 151	BUILDING BC53 NEW PRIVATE FAMILY VISITS MECHANICAL ROOM
ZONE 152	BUILDING BC53 NEW PRIVATE FAMILY VISITS SPRINKLER FLOW SWITCH MECHANICAL ROOM
ZONE 153	BUILDING BC55 PRINCIPLE ENTRANCE GROUND FLOOR
ZONE 154	BUILDING BC55 PRINCIPLE ENTRANCE MECHANICAL AND ELECTRICAL ROOM
ZONE 155	BUILDING BC55 PRINCIPLE ENTRANCE SPRINKLER FLOW
ZONE 156	BUILDING BC55 PRINCIPLE ENTRANCE SYSTEM EQUIPMENT ROOM
ZONE 157	BUILDING BC55 PRINCIPLE ENTRANCE SYSTEM EQUIPMENT ROOM PRE-RELEASE
ZONE 158	BUILDING BC55 PRINCIPLE ENTRANCE SYSTEM EQUIPMENT ROOM SUPPRESSION RELEASE
ZONE 159	BUILDING BC59 MULTIPURPOSE GROUND FLOOR TEL/COM ROOM
ZONE 160	BUILDING BC59 MULTIPURPOSE GROUND FLOOR
ZONE 161	BUILDING BC59 MULTIPURPOSE 2ND FLOOR
ZONE 162	BUILDING BC59 MULTIPURPOSE ELEVATOR SHAFT TOP AND PIT
ZONE 163	BUILDING BC59 MULTIPURPOSE STAIRWELL A
ZONE 164	BUILDING BC59 MULTIPURPOSE STAIRWELL B
ZONE 165	BUILDING BC59 MULTIPURPOSE STAIRWELL C
ZONE 166	BUILDING BC59 MULTIPURPOSE GROUND FLOOR SPRINKLER FLOW
ZONE 167	BUILDING BC59 MULTIPURPOSE 2ND FLOOR SPRINKLER FLOW
ZONE 168	BUILDING BC59 MULTIPURPOSE GROUND FLOOR DUCT SMOKE DETECTOR

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 169	BUILDING BC59 MULTIPURPOSE 2ND FLOOR DUCT SMOKE DETECTOR
ZONE 170	BUILDING BC59 MULTIPURPOSE MAIN SPRINKLER FLOW
ZONE 171	BUILDING BC59 MULTIPURPOSE ELEVATOR MACHINE CLOSET
ZONE 172	BUILDING BC60 RANGE CLASSROOM MECHANICAL ROOM
ZONE 173	BUILDING BC60 RANGE CLASSROOM GROUND FLOOR
ZONE 174	BUILDING BC62 ACCOMMODATION #6 BASEMENT
ZONE 175	BUILDING BC62 ACCOMMODATION #6 BASEMENT SPRINKLER FLOW
ZONE 176	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL CORE
ZONE 177	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL LOWER RANGE P
ZONE 178	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL LOWER RANGE Q
ZONE 179	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL LOWER RANGE R
ZONE 180	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL SPRINKLER FLOW
ZONE 181	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 CORE
ZONE 182	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 UPPER RANGE P
ZONE 183	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 UPPER RANGE Q
ZONE 184	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 UPPER RANGE R
ZONE 185	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 SPRINKLER FLOW
ZONE 186	BUILDING BC62 ACCOMMODATION #6 STAIRWELL 1
ZONE 187	BUILDING BC62 ACCOMMODATION #6 STAIRWELL 2
ZONE 188	BUILDING BC62 ACCOMMODATION #6 STAIRWELL 3
ZONE 189	BUILDING BC62 ACCOMMODATION #6 ELEVATOR SHAFT
ZONE 190	BUILDING BC62 ACCOMMODATION #6 ELEVATOR MACHINE ROOM
ZONE 191	BUILDING BC62 ACCOMMODATION #6 ATTIC DRY SPRINKLER FLOW
ZONE 192	BUILDING BC62 ACCOMMODATION #6 A/C-1 DUCT SMOKE C200 CORR
ZONE 193	BUILDING BC62 ACCOMMODATION #6 HV1 DUCT SMOKE RM217A
ZONE 194	BUILDING BC62 ACCOMMODATION #6 MAIN SPRINKLER FLOW




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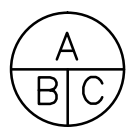


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Gravenhurst Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE - PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC55-PRINCIPLE ENTRANCE  
MAIN CONTROL PANEL  
FIRE ALARM ZONE SCHEDULE-1  
NEW

drawn by  
dessiné par

D. GINGRAS/J.L.C/J.C/T.T

designed by  
conc par

MIKE XU

approved by  
approuvé par

JEFFREY DUBEAU

bid  
offre

G.G.

project manager  
administrateur  
de projets

project date  
date du projet

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project no.  
no. du projet

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drawing no.  
dessiné no.

BC55\_E201



FIRE ALARM ZONE SCHEDULE	
SUPERVISORY SIGNALS	
ZONE 1	BUILDING BC05 STORES/FOOD DISTRIBUTION SPRINKLER LOW PRESSURE WET
ZONE 2	BUILDING BC05 STORES/FOOD DISTRIBUTION SPRINKLER VALVE WET
ZONE 3	BUILDING BC05 STORES/FOOD DISTRIBUTION FIRE HOSE CABINET VALVE BY ROOM E114
ZONE 4	BUILDING BC05 STORES/FOOD DISTRIBUTION FIRE HOSE CABINET VALVE EAST
ZONE 5	BUILDING BC05 STORES/FOOD DISTRIBUTION FIRE HOSE CABINET VALVE BY ROOM E101
ZONE 6	BUILDING BC05 STORES/FOOD DISTRIBUTION STANDPIPE VALVE
ZONE 7	BUILDING BC05 STORES/FOOD DISTRIBUTION SPRINKLER CHECK VALVE
ZONE 8	BUILDING BC05 STORES/FOOD DISTRIBUTION MAIN INCOMING VALVE
ZONE 9	BUILDING BC05 STORES/FOOD DISTRIBUTION SPRINKLER VALVE DRY
ZONE 10	BUILDING BC05/FOOD DISTRIBUTION STORES SPRINKLER LOW PRESSURE DRY
ZONE 11	BUILDING BC12 ACTIVITY UPPER FLOOR WEST SPRINKLER VALVE
ZONE 12	BUILDING BC12 ACTIVITY CHECK VALVE OUTLET
ZONE 13	BUILDING BC12 ACTIVITY MAIN INCOMING VALVE
ZONE 14	BUILDING BC12 ACTIVITY UPPER FLOOR EAST SPRINKLER VALVE
ZONE 15	BUILDING BC12 ACTIVITY SPRINKLER LOW PRESSURE
ZONE 16	BUILDING BC12 ACTIVITY LOWER FLOOR SPRINKLER VALVE
ZONE 17	BUILDING BC12 BACKFLOW PREVENTER SHUT-OFF VALVE TAMPER
ZONE 18	BUILDING BC13 SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC13 SPRINKLER TAMPER
ZONE 20	BUILDING BC13 ATTIC SPRINKLER LOW PRESSURE
ZONE 21	BUILDING BC13 ATTIC SPRINKLER TAMPER
ZONE 22	BUILDING BC14 ACCOMMODATION 1 MAIN SPRINKLER LOW PRESSURE 1
ZONE 23	BUILDING BC14 ACCOMMODATION 1 SV VALVE 1 GROUND FLOOR
ZONE 24	BUILDING BC14 ACCOMMODATION 1 MAIN INCOMING VALVE
ZONE 25	BUILDING BC14 ACCOMMODATION 1 SV VALVE 2 SECOND FLOOR
ZONE 26	BUILDING BC18 ACCOMMODATION ATTIC SPRINKLER LOW PRESSURE
ZONE 27	BUILDING BC18 ACCOMMODATION #4 ATTIC SPRINKLER VALVE
ZONE 28	BUILDING BC18 ACCOMMODATION #4 MAIN SPRINKLER VALVE
ZONE 29	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 30	BUILDING BC18 ACCOMMODATION #4 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE
ZONE 31	BUILDING BC019 ATTIC SPRINKLER LOW PRESSURE
ZONE 32	BUILDING BC19 ACCOMMODATION #5 ATTIC SPRINKLER VALVE
ZONE 33	BUILDING BC19 ACCOMMODATION #5 MAIN SPRINKLER VALVE
ZONE 34	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 35	BUILDING BC19 ACCOMMODATION #5 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE
ZONE 36	BUILDING BC24 ACCOMMODATION #3 ATTIC SPRINKLER LOW PRESSURE
ZONE 37	BUILDING BC24 ACCOMMODATION #3 ATTIC SPRINKLER VALVE
ZONE 38	BUILDING BC24 ACCOMMODATION #3 MAIN SPRINKLER VALVE
ZONE 39	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 40	BUILDING BC24 ACCOMMODATION #3 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE
ZONE 41	BUILDING BC25 ACCOMMODATION #2 ATTIC SPRINKLER LOW PRESSURE
ZONE 42	BUILDING BC25 ACCOMMODATION #2 ATTIC SPRINKLER VALVE
ZONE 43	BUILDING BC25 ACCOMMODATION #2 MAIN SPRINKLER VALVE
ZONE 44	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR AND 2ND FLOOR SPRINKLER VALVE
ZONE 45	BUILDING BC25 ACCOMMODATION #2 GROUND FLOOR AND 2ND FLOOR SPRINKLER LOW PRESSURE

FIRE ALARM ZONE SCHEDULE	
SUPERVISORY SIGNALS	
ZONE 46	BUILDING BC40 FAMILY VISITS SPRINKLER TAMPER SWITCH UNIT A BASEMENT
ZONE 47	BUILDING BC40 FAMILY VISITS SPRINKLER TAMPER SWITCH UNIT B BASEMENT
ZONE 48	BUILDING BC40 FAMILY VISITS MAIN SPRINKLER TAMPER SWITCH (BACKFLOW)
ZONE 49	BUILDING BC40 FAMILY VISITS MAIN SPRINKLER TAMPER SWITCH (BACKFLOW)
ZONE 50	BUILDING BC40 FAMILY VISITS SPRINKLER TAMPER SWITCH BASEMENT NORTH
ZONE 51	BUILDING BC40 FAMILY VISITS SPRINKLER TAMPER SWITCH BASEMENT SOUTH
ZONE 52	BUILDING BC40 BACKFLOW PREVENTER SHUT-OFF VALVE TAMPER
ZONE 53	BUILDING BC41 PROGRAM GROUND FLOOR SPRINKLER VALVE
ZONE 54	BUILDING BC41 PROGRAM 2ND FLOOR SPRINKLER VALVE
ZONE 55	BUILDING BC41 PROGRAM CHECK VALVE INLET
ZONE 56	BUILDING BC41 PROGRAM CHECK VALVE OUTLET
ZONE 57	BUILDING BC41 PROGRAM MAIN SPRINKLER LOW PRESSURE
ZONE 58	BUILDING BC41 PROGRAM MAIN SPRINKLER VALVE
ZONE 59	BUILDING BC41 BACKFLOW PREVENTER SHUT-OFF VALVE TAMPER
ZONE 60	BUILDING BC43 WORKS LOW PRESSURE WET SPRINKLER
ZONE 61	BUILDING BC43 WORKS GATE VALVE WET SPRINKLER
ZONE 62	BUILDING BC43 WORKS LOW PRESSURE DRY SPRINKLER
ZONE 63	BUILDING BC43 WORKS GATE VALVE DRY SPRINKLER
ZONE 64	BUILDING BC53 NEW PRIVATE FAMILY VISITS SPRINKLER VALVE MECHANICAL ROOM
ZONE 65	BUILDING BC55 PRINCIPLE ENTRANCE CHECK VALVE INLET
ZONE 66	BUILDING BC55 PRINCIPLE ENTRANCE CHECK VALVE OUTLET
ZONE 67	BUILDING BC55 PRINCIPLE ENTRANCE MAIN SPRINKLER VALVE
ZONE 68	BUILDING BC55 PRINCIPLE ENTRANCE BOOSTER POWER SUPPLY TROUBLE
ZONE 69	BUILDING BC59 MULTIPURPOSE CHECK VALVE INLET
ZONE 70	BUILDING BC59 MULTIPURPOSE CHECK VALVE OUTLET
ZONE 71	BUILDING BC59 MULTIPURPOSE MAIN SPRINKLER VALVE
ZONE 72	BUILDING BC59 MULTIPURPOSE CHECK VALVE TEST HEADER VALVE
ZONE 73	BUILDING BC59 MULTIPURPOSE MAIN SPRINKLER LOW PRESSURE
ZONE 74	BUILDING BC59 MULTIPURPOSE GROUND FLOOR SPRINKLER VALVE
ZONE 75	BUILDING BC59 MULTIPURPOSE 2ND FLOOR SPRINKLER VALVE
ZONE 76	BUILDING BC59 BACKFLOW PREVENTER SHUT-OFF VALVE TAMPER
ZONE 77	BUILDING BC62 ACCOMMODATION #6 CHECK VALVE INLET
ZONE 78	BUILDING BC62 ACCOMMODATION #6 CHECK VALVE OUTLET
ZONE 79	BUILDING BC62 ACCOMMODATION #6 MAIN SPRINKLER LOW PRESSURE
ZONE 80	BUILDING BC62 ACCOMMODATION #6 GROUND LEVEL SPRINKLER VALVE
ZONE 81	BUILDING BC62 ACCOMMODATION #6 ATTIC DRY SPRINKLER VALVE
ZONE 82	BUILDING BC62 ACCOMMODATION #6 ATTIC DRY SPRINKLER LOW PRESSURE
ZONE 83	BUILDING BC62 ACCOMMODATION #6 LEVEL 2 SPRINKLER VALVE
ZONE 84	BUILDING BC62 ACCOMMODATION #6 BASEMENT SPRINKLER VALVE



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Gravenhurst

Ontario

BEAVER CREEK INSTITUTION

FIRE ALARM SYSTEM  
UPGRADE — PHASE II

drawing title  
titre du dessin

FIRE ALARM  
BC55-PRINCIPLE ENTRANCE  
MAIN CONTROL PANEL  
FIRE ALARM ZONE SCHEDULE-2  
NEW

drawn by  
dessiné par

D. GINGRAS/J.L.C/J.C/T.T

designed by  
conç par

MIKE XU

approved by  
approuvé par

JEFFREY DUBEAU

bid  
offre

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project manager  
administrateur  
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project date  
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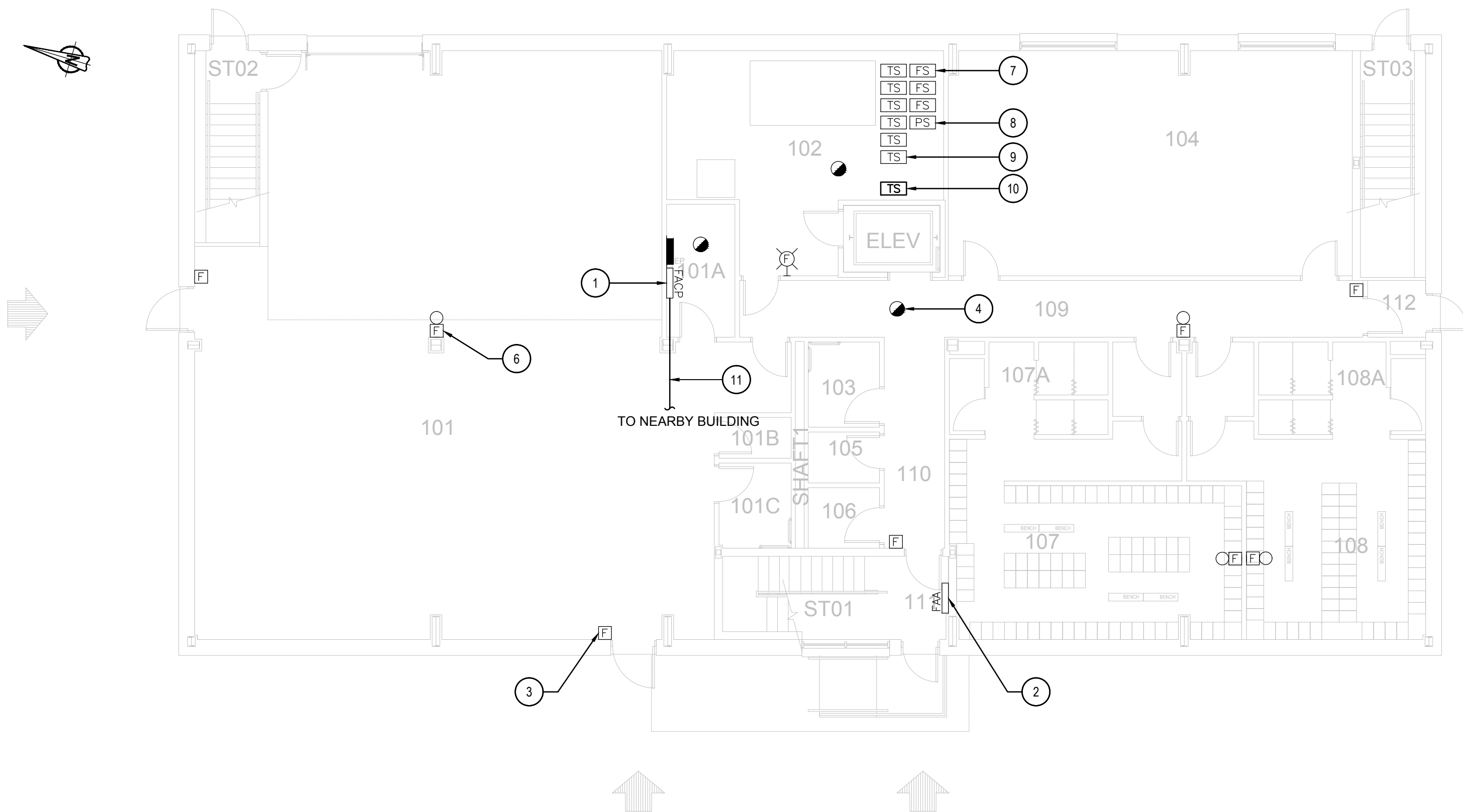
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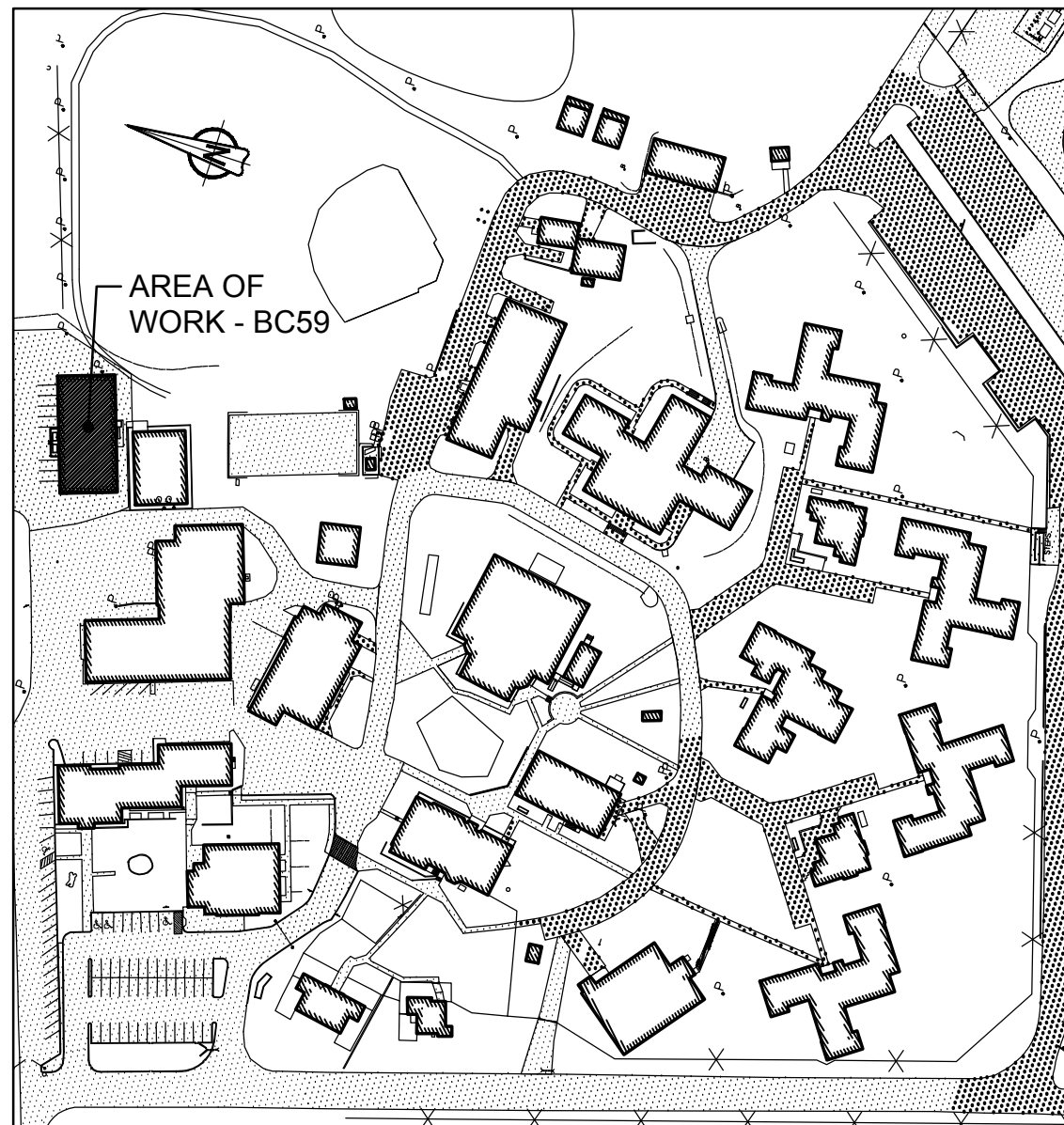
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dessiné no.

BC55\_E202



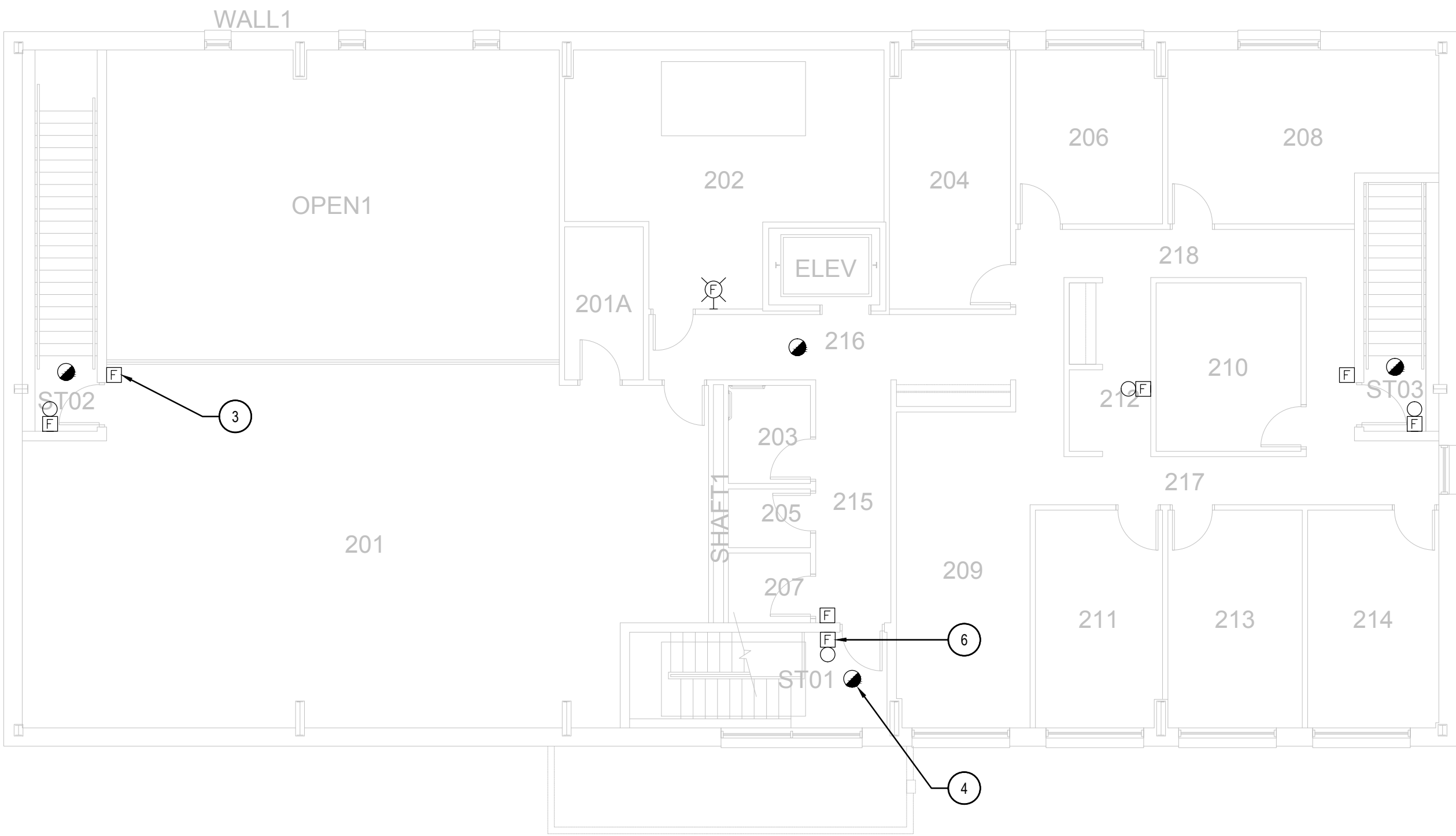


2 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN  
BUILDING BC59 - MULTIPURPOSE BUILDING  
SCALE: 1:2000

ROOM INDEX	
101	WAREHOUSE
101A	ELECTRICAL / LAN / TELECOM ROOM
101B	JANITOR ROOM
101C	STAFF BARRIER FREE WASHROOM
102	MECHANICAL ROOM
103	STAFF BARRIER FREE WASHROOM
104	MEETING ROOM
105	JANITOR ROOM
106	STAFF WASHROOM
107	STAFF MEN'S LOCKER ROOM
107A	STAFF MEN'S SHOWER
108	STAFF WOMEN'S LOCKER ROOM
108A	STAFF WOMEN'S SHOWER
109	CORRIDOR
110	CORRIDOR
111	VESTIBULE
112	VESTIBULE
ST01	STAIR NO.1
ST02	STAIR NO.2
ST03	STAIR NO.3
201	MEZZANINE WAREHOUSE
201A	ELECTRICAL / LAN / TELECOM ROOM
202	MECHANICAL ROOM
203	STAFF BARRIER FREE WASHROOM
204	OFFICE
205	JANITOR ROOM
206	OFFICE
207	STAFF WASHROOM
208	MEETING ROOM
209	OPEN WORKSTATIONS
210	STORAGE AND SUPPORT ROOM
211	OFFICE
212	COPIER / PRINTER ALCOVE
213	OFFICE
214	OFFICE
215	CORRIDOR
216	CORRIDOR
217	CORRIDOR
218	CORRIDOR



3 SECOND FLOOR - EXISTING LAYOUT  
SCALE: 1:100

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
- DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### DRAWING NOTES - NEW

- EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP D OCCUPANCIES, SPRINKLERED BUILDING. EXISTING FIRE ALARM CONTROL PANEL IS CONNECTED BY OPTICAL FIBER CABLE. THERE IS NO UPGRADE REQUIRED TO THE SYSTEM.
- EXISTING FIRE ALARM ANNUNCIATOR TO REMAIN.
- TYPICAL OF SEVEN (7)  
EXISTING FIRE ALARM PULL STATION TO REMAIN.
- TYPICAL OF NINE (9)  
EXISTING FIRE ALARM SMOKE DETECTOR TO REMAIN.
- TYPICAL OF TWO (2)  
EXISTING FIRE ALARM DUCT TYPE SMOKE DETECTOR TO REMAIN.
- TYPICAL OF ELEVEN (11)  
EXISTING FIRE ALARM BELL TO REMAIN.
- TYPICAL OF THREE (3)  
EXISTING FIRE ALARM FLOW SWITCH TO REMAIN.
- EXISTING FIRE ALARM PRESSURE SWITCH TO REMAIN.
- TYPICAL OF SIX (6)  
EXISTING FIRE ALARM TAMPER SWITCH TO REMAIN.
- PROVIDE NEW TAMPER SWITCH FOR BACKFLOW PREVENTER IN WATER MAIN WHICH PROVIDE FIRE FLOW TO SPRINKLER SYSTEM. MAKE FIRE ALARM CONNECTION BACK TO FIRE ALARM CONTROL PANEL AND PROVIDE FIRE ALARM ADDRESSABLE MONITOR MODULE AT VALVE.
- PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM BC59 FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.

### FIRE ALARM ZONE SCHEDULE

ZONES AND ALARM SIGNALS	
ZONE 1	BUILDING BC59 GROUND FLOOR TEL/COM ROOM
ZONE 2	BUILDING BC59 GROUND FLOOR
ZONE 3	BUILDING BC59 2ND FLOOR
ZONE 4	BUILDING BC59 ELEVATOR SHAFT TOP AND PIT
ZONE 5	BUILDING BC59 STAIRWELL A
ZONE 6	BUILDING BC59 STAIRWELL B
ZONE 7	BUILDING BC59 STAIRWELL C
ZONE 8	BUILDING BC59 GROUND FLOOR SPRINKLER FLOW
ZONE 9	BUILDING BC59 2ND FLOOR SPRINKLER FLOW
ZONE 10	BUILDING BC59 GROUND FLOOR DUCT SMOKE DETECTOR
ZONE 11	BUILDING BC59 2ND FLOOR DUCT SMOKE DETECTOR
ZONE 12	BUILDING BC59 MAIN SPRINKLER FLOW
ZONE 13	BUILDING BC59 ELEVATOR MACHINE CLOSET
SUPERVISORY SIGNALS	
ZONE 14	BUILDING BC59 CHECK VALVE INLET
ZONE 15	BUILDING BC59 CHECK VALVE OUTLET
ZONE 16	BUILDING BC59 MAIN SPRINKLER VALVE
ZONE 17	BUILDING BC59 CHECK VALVE TEST HEADER VALVE
ZONE 18	BUILDING BC59 MAIN SPRINKLER LOW PRESSURE
ZONE 19	BUILDING BC59 GROUND FLOOR SPRINKLER VALVE
ZONE 20	BUILDING BC59 2ND FLOOR SPRINKLER VALVE
ZONE 21	BUILDING BC59 SPRINKLER BACKFLOW PREVENTER TAMPER SWITCH (NEW)

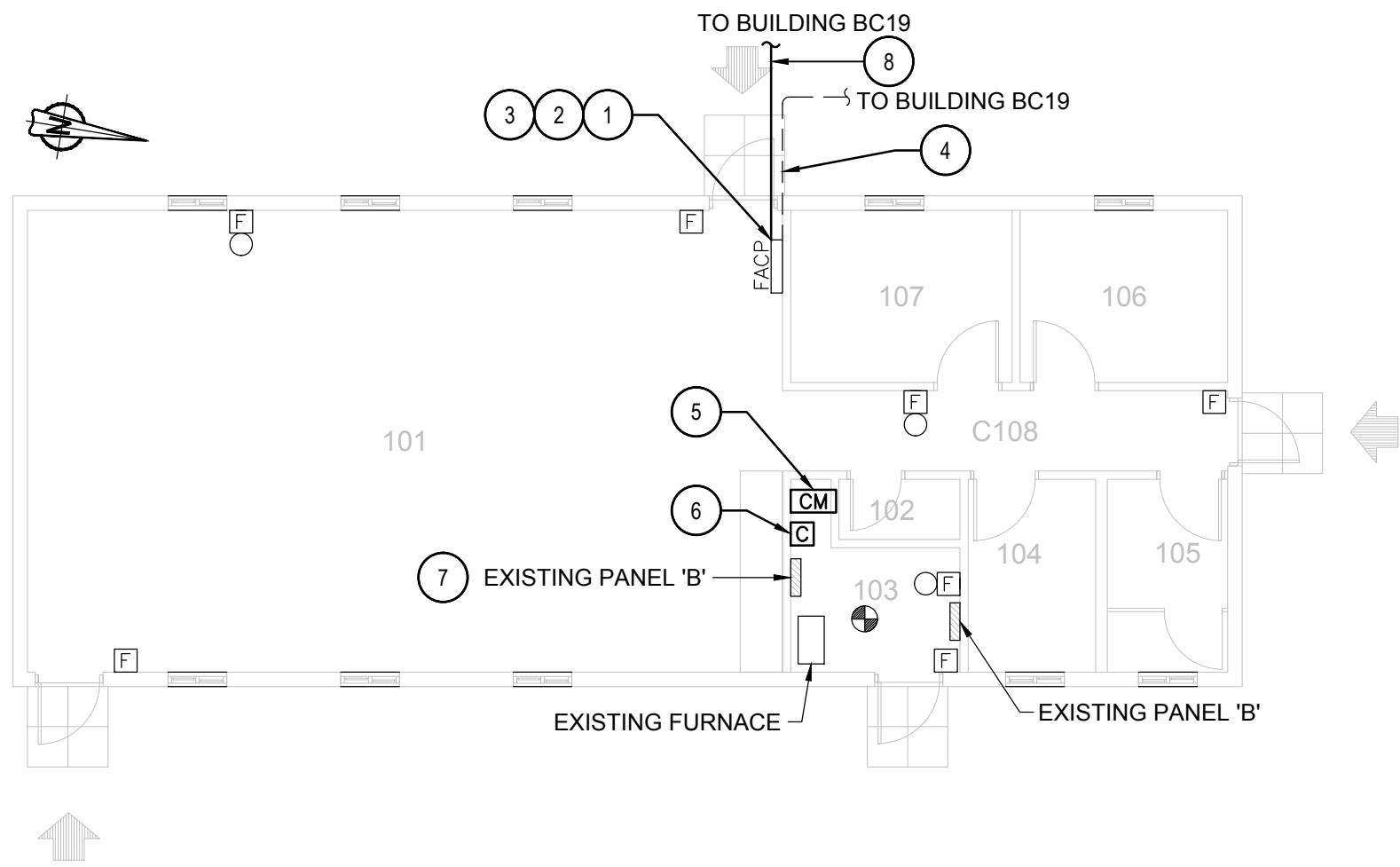
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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC59 MULTIPURPOSE BUILDING FIRST & SECOND FLOOR NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
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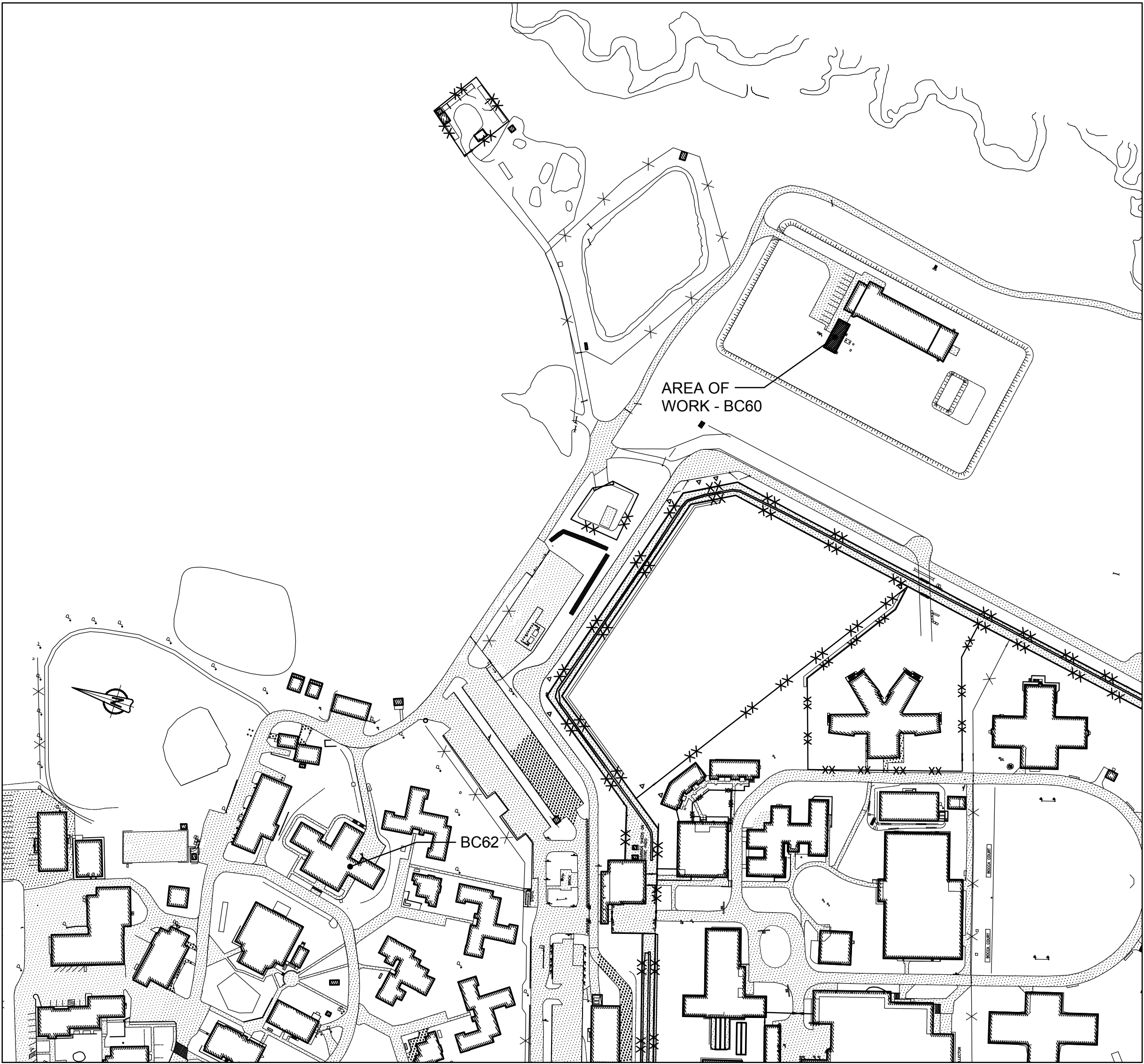
2 GROUND FLOOR - NEW LAYOUT  
SCALE: 1:100

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2.	CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3.	ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4.	REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

FIRE ALARM ZONE SCHEDULE	
ALARM SIGNALS	
ZONE 1	BUILDING BC60 MECHANICAL ROOM
ZONE 2	BUILDING BC60 GROUND FLOOR

ROOM INDEX	
101	LARGE MEETING ROOM
102	JANITOR ROOM
103	MECHANICAL ROOM
104	WOMEN'S B.F. WASHROOM
105	MEN'S B.F. WASHROOM
106	OFFICE
107	SECURE STORAGE ROOM
C108	CORRIDOR

DRAWING NOTES - NEW	
1	EXISTING FIRE ALARM CONTROL PANEL CHUBB EDWARDS EST3 TO REMAIN. SINGLE STAGE SYSTEM FOR GROUP A, DIVISION 2 OCCUPANCIES, UN-SPRINKLERED BUILDING. REMOVE EXISTING WIRES FOR ANCILLARY CIRCUITS (ALARM & TROUBLE) BACK TO ACTIVITY BUILDING.
2	PROVIDE NEW FIBER OPTIC INTERFACE CARD AND ACCESSORIES FOR FIBER CABLE CONNECTION. CONNECT EXISTING FIBER OPTIC CABLE TO INTERFACE CARD.
3	PROVIDE FIRE ALARM SYSTEM PROGRAMMING AND VERIFICATION REPORT.
4	EXISTING UNDERGROUND FIBER OPTIC CABLE.
5	PROVIDE NEW ADDRESSABLE FIRE ALARM CONTROL RELAY MODULE CHUBB EDWARDS #SIGA-CR FOR FURNACE FIRE ALARM SHUTDOWN. WIRE TO SHUTDOWN CIRCUIT AND FIRE ALARM CONTROL PANEL. REFER TO WIRING DIAGRAM IN DRAWING BC00_E102 FOR DETAILS.
6	PROVIDE CONTACTOR FOR FURNACE CIRCUIT NUMBER B#32, 15A, 1P, AND A NEW 120/240V TRANSFORMER FOR CONTROL CIRCUIT.
7	PROVIDE A NEW 15A, 1P BREAKER IN PANEL 'B' FOR TRANSFORMER 120V INPUT CIRCUIT, CIRCUIT NUMBER B#55.
8	PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.



1 KEY PLAN  
BUILDING BC60 - RANGE CLASSROOM  
SCALE: 1:2000



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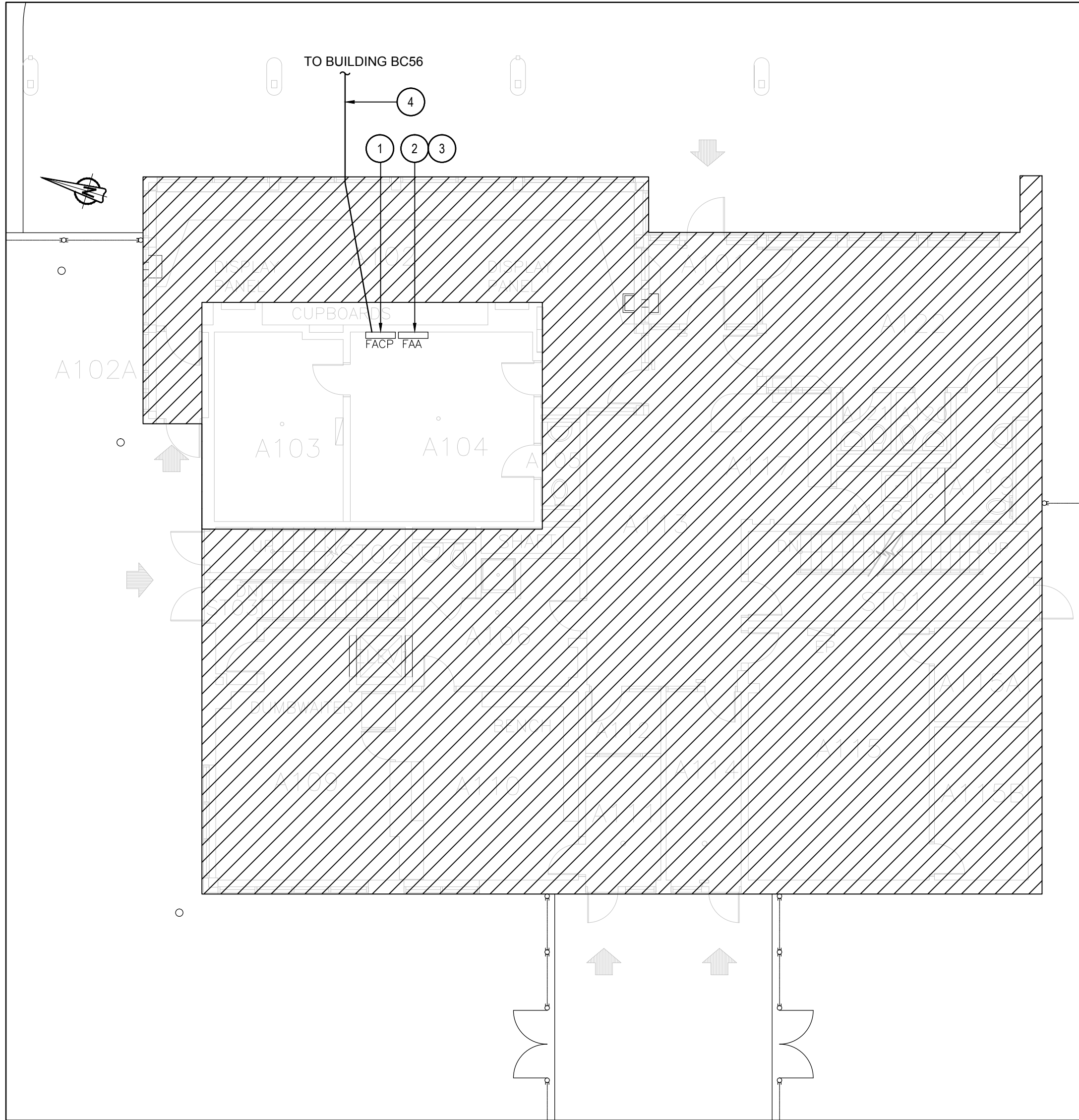
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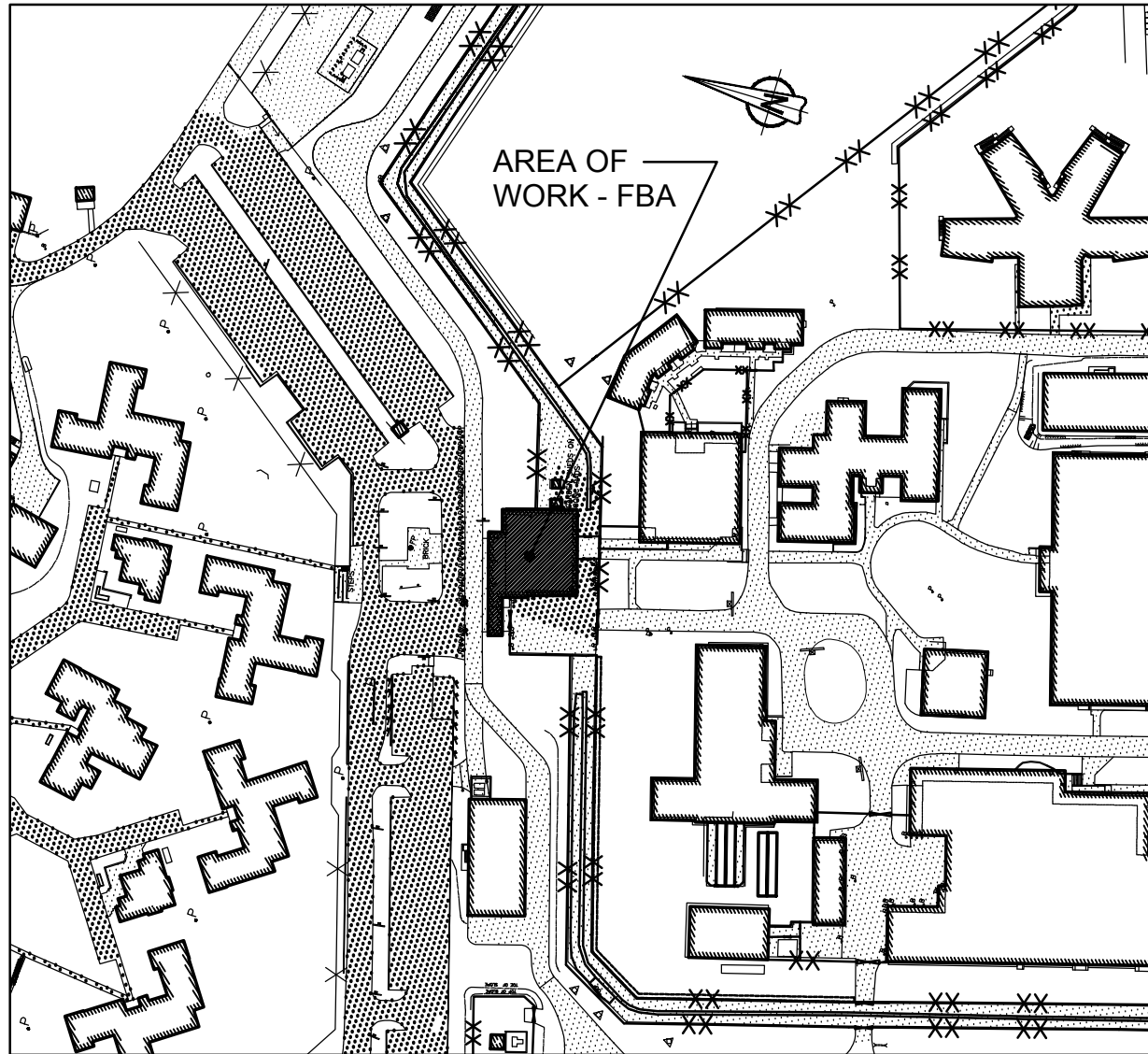
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project title titre du projet	Gravenhurst	Ontario
BEAVER CREEK INSTITUTION		
FIRE ALARM SYSTEM UPGRADE - PHASE II		
drawing title titre du dessin	FIRE ALARM BC60-RANGE CLASSROOM GROUND FLOOR PLAN	
NEW LAYOUT		
drawn by dessine par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conc par	MIKE XU	
approved by approuve par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessine no.	BC60_E200	





2 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN - BUILDING FBA  
GATEHOUSE / ADMISSIONS  
SCALE: 1:2000

### GENERAL NOTES

1. LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
2. CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
3. ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
4. REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
5. TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.
6. DISPLAY MODULES AT MAIN CONTROL PANEL AND REMOTE ANNUNCIATOR PANEL TO SHOW UPDATED FIRE ALARM ZONES/SUPERVISORY SIGNALS WITH NEW PRINT LABELS PER FIRE ALARM ZONE SCHEDULE PROVIDED IN DRAWING.

### DRAWING NOTES - NEW

1. EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
2. EXISTING FIRE ALARM ANNUNCIATOR TO REMAIN.
3. ADD DISPLAY MODULES FOR ALL FIRE ALARM ZONES (ALARM SIGNALS & SUPERVISORY SIGNALS) OF MINIMUM INSTITUTION TO EXISTING ANNUNCIATOR PANEL. REFER TO FIRE ALARM ZONE SCHEDULE IN DRAWING BC55\_E201 AND BC55\_E202 FOR FIRE ALARM ZONE DETAILS. PROVIDE VERIFICATION REPORT.
4. PROVIDE 50/125 MULTI-MODE OPTICAL FIBER CABLE FROM FIRE ALARM CONTROL PANEL TO NEARBY BUILDING FIRE ALARM CONTROL PANELS VIA EXISTING UNDERGROUND CONDUIT. REFER TO DRAWING BC00\_E100 FOR UNDERGROUND OPTICAL FIBER CABLE CONNECTION ROUTE AND BC00\_E101 FOR NUMBER OF CABLE RUNS AND NETWORK CONNECTIONS.



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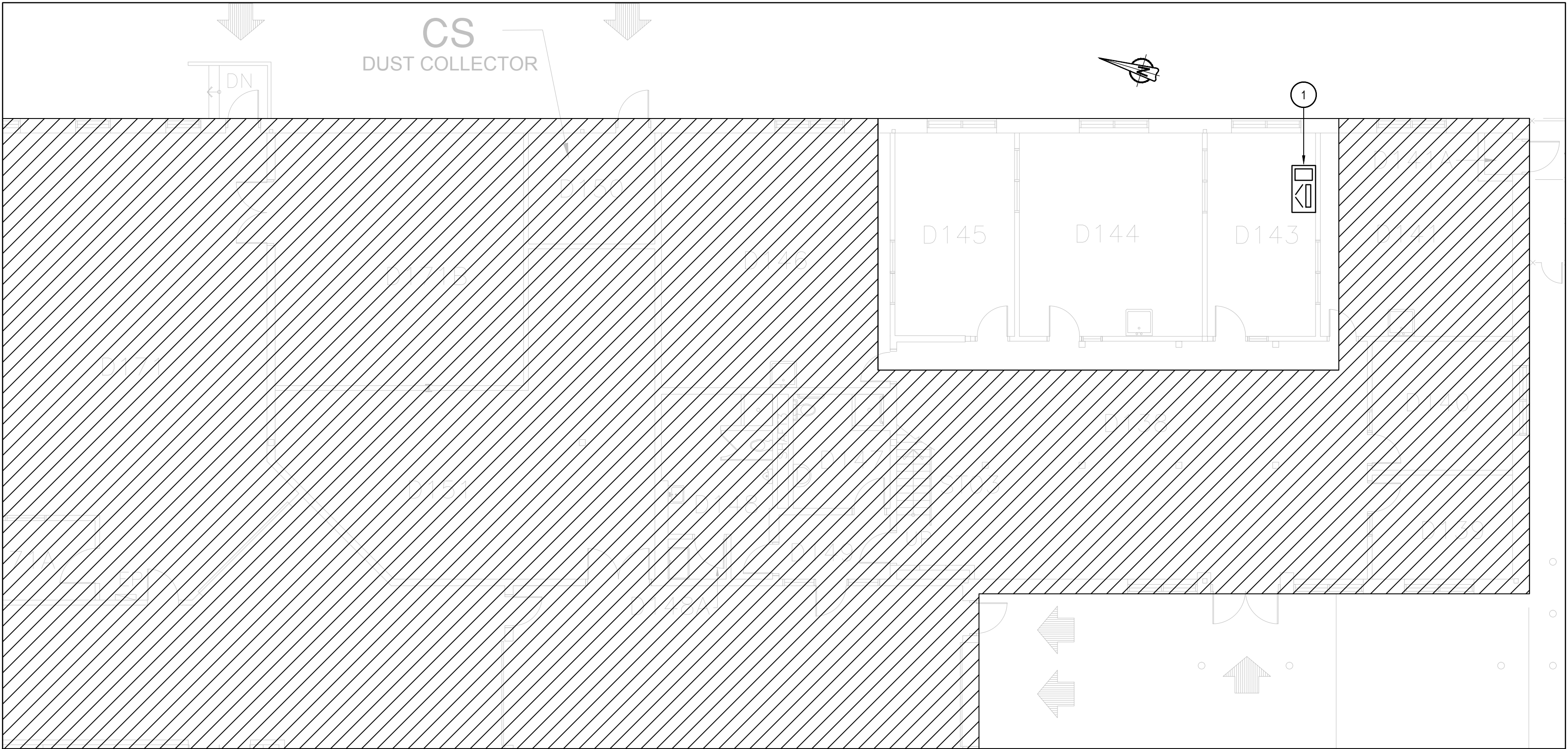
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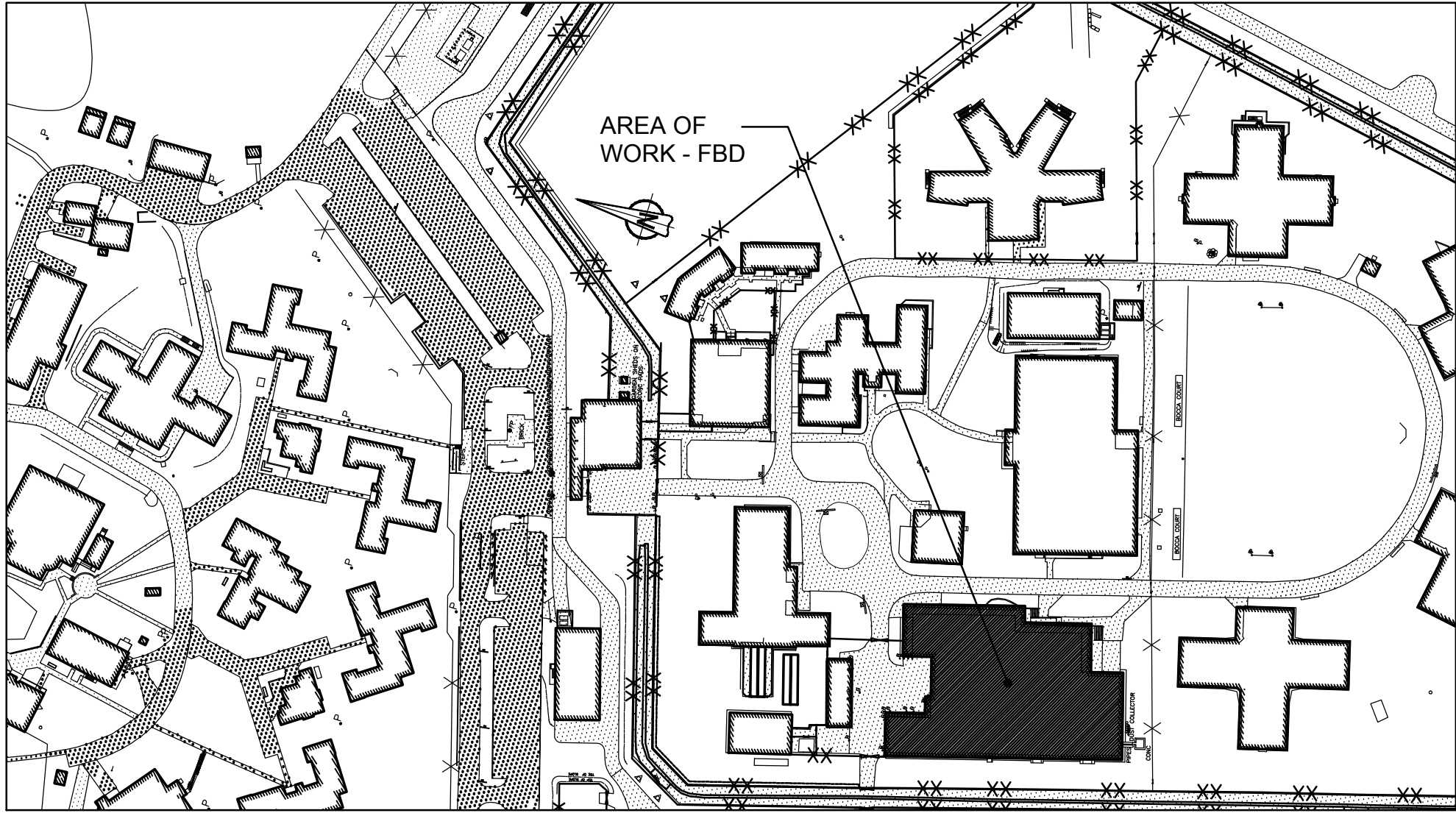
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	BEAVER CREEK INSTITUTION	
	FIRE ALARM SYSTEM UPGRADE - PHASE II	
drawing title titre du dessin	FIRE ALARM FBA - GATEHOUSE/ADMIS. FIRST FLOOR	
	NEW LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C./J.C./T.T.	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
bid offre	G.G.	project manager administrateur de projets
project date date du projet	2018-01-19	
project no. no. du projet	R.080201.001	
drawing no. dessiné no.	FBA_E200	





2 FIRST FLOOR - NEW LAYOUT  
SCALE: 1:100



1 KEY PLAN - FBD - INDUSTRIES BUILDING  
SCALE: 1:2000

### GENERAL NOTES

- LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
- CONTRACTOR TO VERIFY ALL EXISTING FIRE ALARM CIRCUITS.
- ENSURE FIRE ALARM SYSTEM IS OPERATIONAL AT END OF EACH SHIFT. PROVIDE FIRE WATCH IF FIRE ALARM SYSTEM IS NOT OPERATIONAL.
- REUSE EXISTING CONDUITS AND WIRES UNLESS OTHERWISE INDICATED.
- TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

### DRAWING NOTES - NEW

- RELOCATE FIRE ALARM FIREWORKS FROM ROOM #D205 TO ROOM #D143 AS SHOWN AND CONNECT TO FIRE ALARM CONTROL PANEL OF BUILDING FBD. UPGRADE FIREWORKS TO MAKE IT ABLE TO MONITOR FIRE ALARM SYSTEMS IN BOTH MINIMUM INSTITUTION AND MEDIUM INSTITUTION. PROVIDE NEW LASER PRINTER AND DISPLAY. EXACT LOCATION OF FIREWORKS STATION TO BE DETERMINED ONSITE WITH BCI.



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**Gravenhurst Ontario**  
**BEAVER CREEK INSTITUTION**  
**FIRE ALARM SYSTEM**  
**UPGRADE - PHASE II**

drawing title  
titre du dessin  
**FIRE ALARM**  
**FBD - INDUSTRIES BUILDING**  
**FIRST FLOOR**

**NEW LAYOUT**

drawn by  
dessiné par  
**D. GINGRAS/J.L.C/J.C/T.T**

designed by  
conçu par  
**MIKE XU**

approved by  
approuvé par  
**JEFFREY DUBEAU**

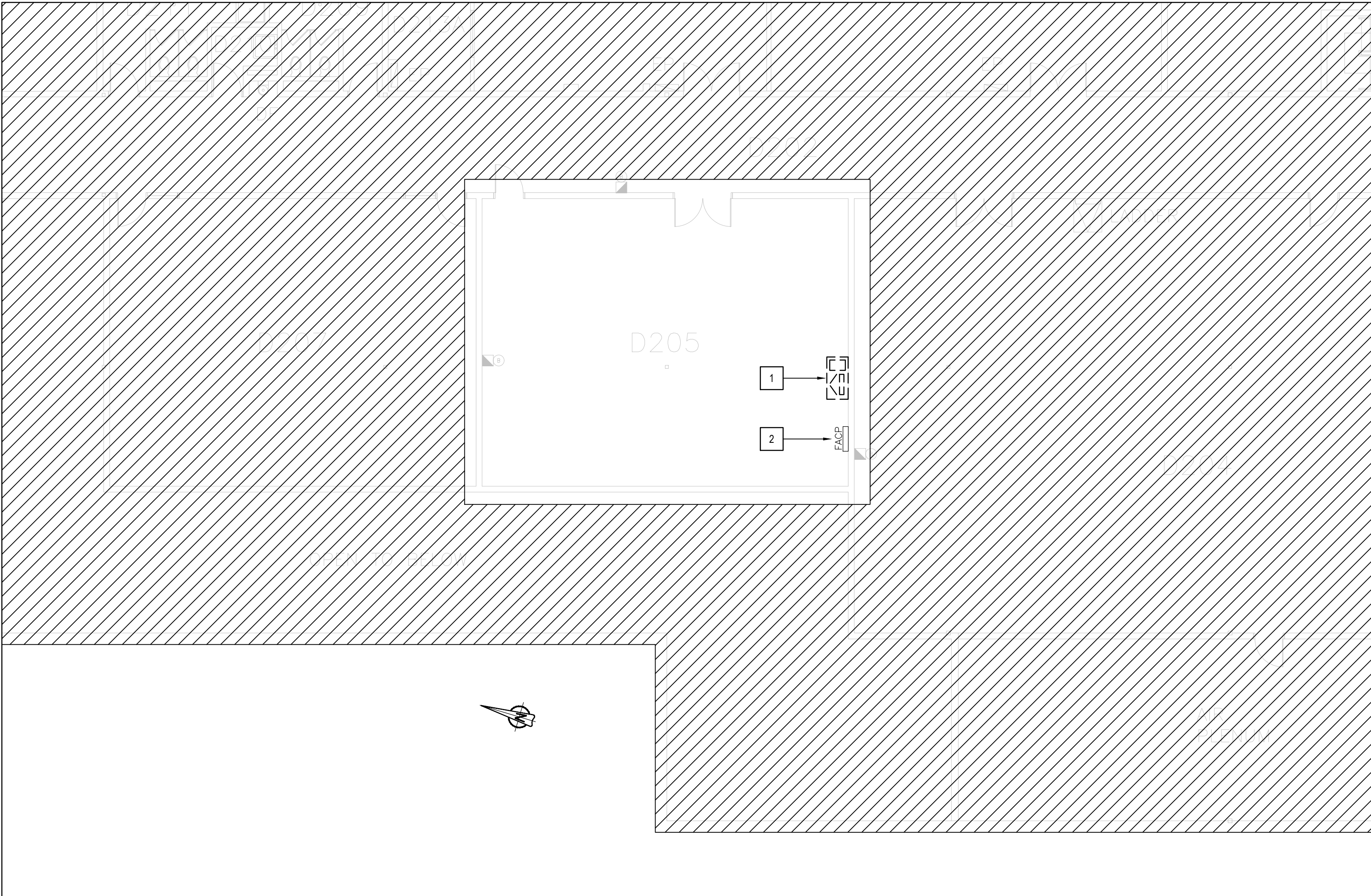
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administrateur  
de projets

project date  
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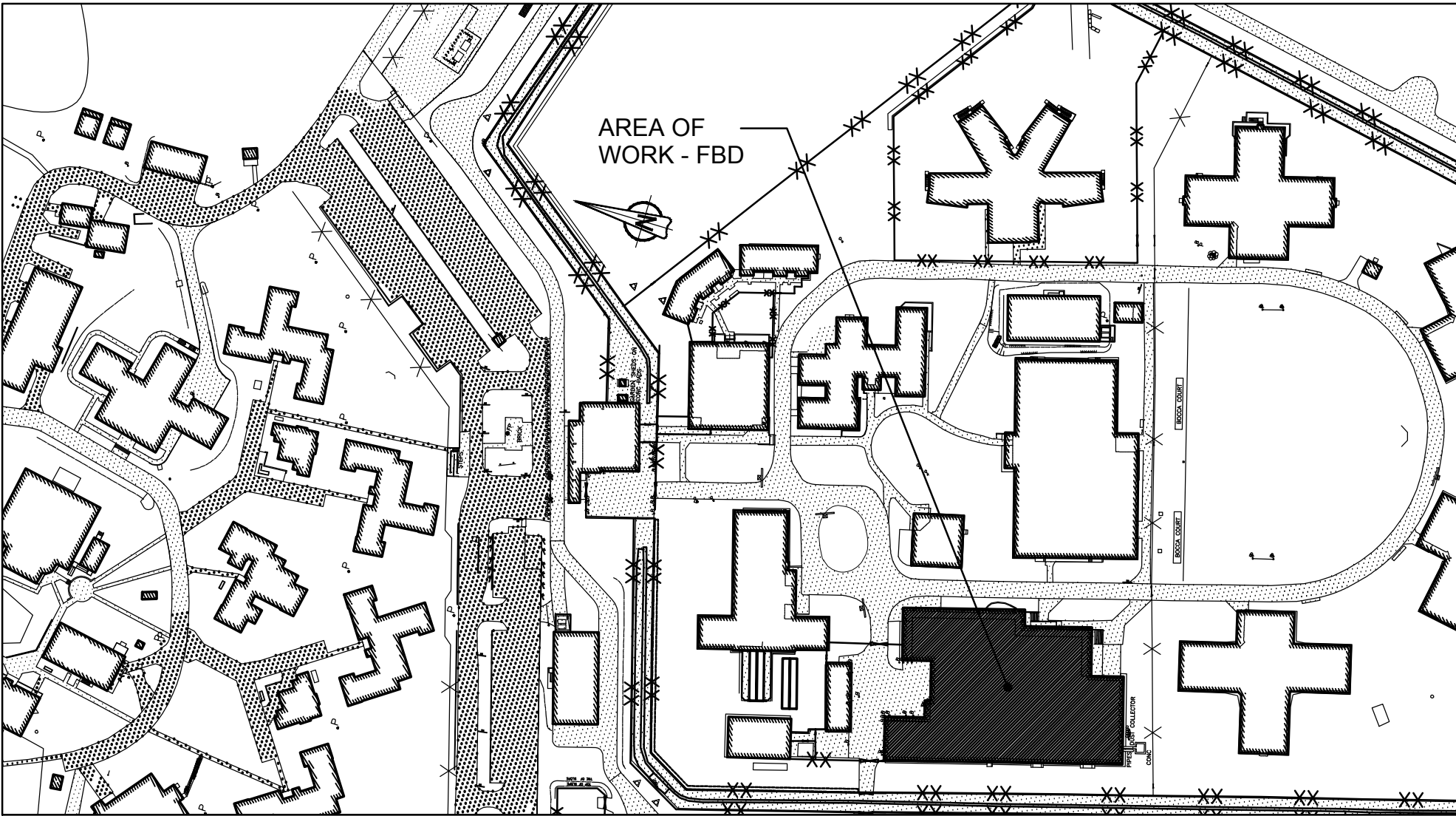
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**R.080201.001**

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dessiné no.  
**FBD\_E200**





2 MECHANICAL ROOM FLOOR- DEMOLITION LAYOUT  
SCALE: 1:100



1 KEY PLAN - FBD - INDUSTRIES BUILDING  
SCALE: 1:2000

GENERAL NOTES

1.	LAYOUT AND LOCATION OF DEVICES ARE INDICATIVE, NOT ALL DEVICES ARE SHOWN ON DRAWINGS. CONTRACTOR TO VERIFY EXISTING CONDITION AND EXISTING INSTALLATION ON SITE.
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5.	TEST AND VERIFY FIRE ALARM SYSTEM AFTER INSTALLATION. PROVIDE VERIFICATION REPORT.

DRAWING NOTES - DEMOLITION

1	EXISTING FIRE ALARM FIREWORKS TO BE RELOCATED. EXISTING PRINTER AND DISPLAY TO BE REMOVED. REFER TO DRAWING FBD_E200 FOR NEW LOCATION.
2	EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.

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	BEAVER CREEK INSTITUTION	
	FIRE ALARM SYSTEM UPGRADE - PHASE II	
drawing title titre du dessin	FIRE ALARM FBD - INDUSTRIES BUILDING MECHANICAL ROOM FLOOR DEMOLITION LAYOUT	
drawn by dessiné par	D. GINGRAS/J.L.C/J.C/T.T	
designed by conçu par	MIKE XU	
approved by approuvé par	JEFFREY DUBEAU	
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