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SYMBOL LEGEND

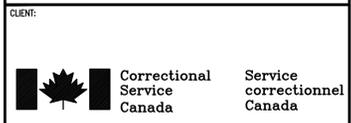
SYMBOL	DESCRIPTION
FIRE ALARM	
[M]	MANUAL FIRE ALARM PULL STATION
[S]	SMOKE DETECTOR
[S/L]	SMOKE DETECTOR C/W LOCAL ALARM
[D]	DUCT DETECTOR
[H]	HEAT DETECTOR - FIXED TEMPERATURE
[H/R]	HEAT DETECTOR - RATE OF RISE
[H/H]	HEAT DETECTOR - HIGH HEAT
[E]	END OF LINE RESISTOR
[B]	FIRE ALARM BELL
[B/V]	FIRE ALARM BELL WITH VISUAL ALARM
[H]	FIRE ALARM HORN
[H/V]	FIRE ALARM HORN WITH VISUAL ALARM
[W]	VISUAL ALARM - WALL MOUNTED
[C]	VISUAL ALARM - CEILING MOUNTED
[E]	FIRE ALARM EXTERIOR BEACON
[P]	FIRE PHONE OUTLET
[F]	FLOW SWITCH
[T]	PRESSURE SWITCH
[T]	TAMPER SWITCH
[V]	GATE VALVE
[M]	FIRE ALARM MONITORING ELEMENT
[C]	FIRE ALARM CONTROL ELEMENT
[I]	FIRE ALARM ISOLATING MODULE
[R]	FIRE ALARM CONTROL RELAY
[ACP]	FIRE ALARM CONTROL PANEL
[FA]	FIRE ALARM ANNUNCIATOR
[FAG]	FIRE ALARM ACTIVE GRAPHIC
[FPG]	FIRE ALARM PASSIVE GRAPHIC
[BPS]	FIRE ALARM BOOSTER POWER SUPPLY
[SEE]	FIRE ALARM EMERGENCY PROCEDURE SIGN
[M]	MOTOR STARTER
[W]	WALL MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
[C]	CEILING MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
CONDUIT AND JUNCTION BOXES	
[J]	JUNCTION BOX
[C]	CONDUIT
[H]	HOME RUN
NOTES, LINES, AND ABBREVIATIONS	
[###]	DRAWING KEYNOTE
---	LINE TYPE AND WEIGHT INDICATE CONSTRUCTION
---	LINE TYPE AND WEIGHT INDICATE EXISTING
---	LINE TYPE AND WEIGHT INDICATE DEMOLITION
---	BLANK OFF EXISTING DEVICE
WP	WEATHER PROOF
R	TO BE REMOVED
RL	EXISTING TO BE RELOCATED
F	FUTURE DEVICE



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta



CLIENT:

CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00

DATE: 2018/09/26

ORIGINAL SCALE: AS NOTED

DESIGNED BY: L. SHADE

DRAWN BY: L. SHADE

CHECKED BY: J. ESPINO

DISCIPLINE: ELECTRICAL

TITLE: FIRE ALARM LEGEND & KEY PLAN

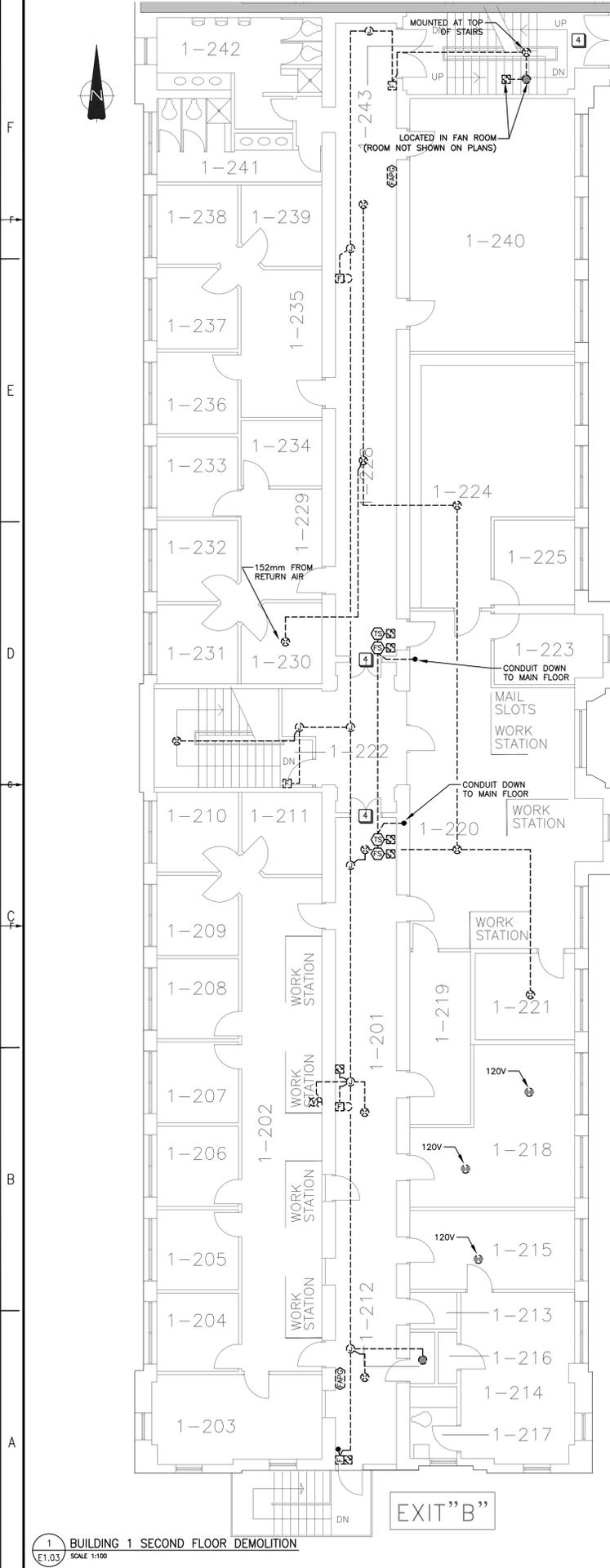
SHEET NUMBER: E0.01

SHEET #: 1 OF 28

ISSUE: ISSUED FOR TENDER

DATE OF: 2018/09/26

REV # A



**ROOM LEGEND
BUILDING 1**

- 1-201 CORRIDOR
- 1-202 GENERAL AREA
- 1-203 AREA SUPERVISOR
- 1-204 PAROLE OFFICE
- 1-205 PAROLE OFFICE
- 1-206 PAROLE OFFICE
- 1-207 PAROLE OFFICE
- 1-208 PAROLE OFFICE
- 1-209 PAROLE OFFICE
- 1-210 PAROLE OFFICE
- 1-211 READING
- 1-212 JANITOR
- 1-213 FAX
- 1-214 DISTRICT DIRECTOR
- 1-215 OFFICE
- 1-216 STORAGE
- 1-217 WASHROOM
- 1-218 STAFF LOUNGE
- 1-219 PHOTOCOPY
- 1-220 GENERAL OFFICE
- 1-221 OFFICE
- 1-222 STAIRWAY
- 1-223 STORAGE
- 1-224 BOARDROOM
- 1-225 STORAGE
- 1-226 REMOVED
- 1-227 REMOVED
- 1-228 CORRIDOR
- 1-229 GENERAL OFFICE
- 1-230 COMPUTER ROOM
- 1-231 PAROLE OFFICE
- 1-232 PAROLE OFFICE
- 1-233 PAROLE OFFICE
- 1-234 STORAGE
- 1-235 GENERAL OFFICE
- 1-236 PAROLE OFFICE
- 1-237 PAROLE OFFICE
- 1-238 PAROLE OFFICE
- 1-239 OFFICE
- 1-240 BOARDROOM
- 1-241 WASHROOM
- 1-242 WASHROOM
- 1-243 STAIRWAY

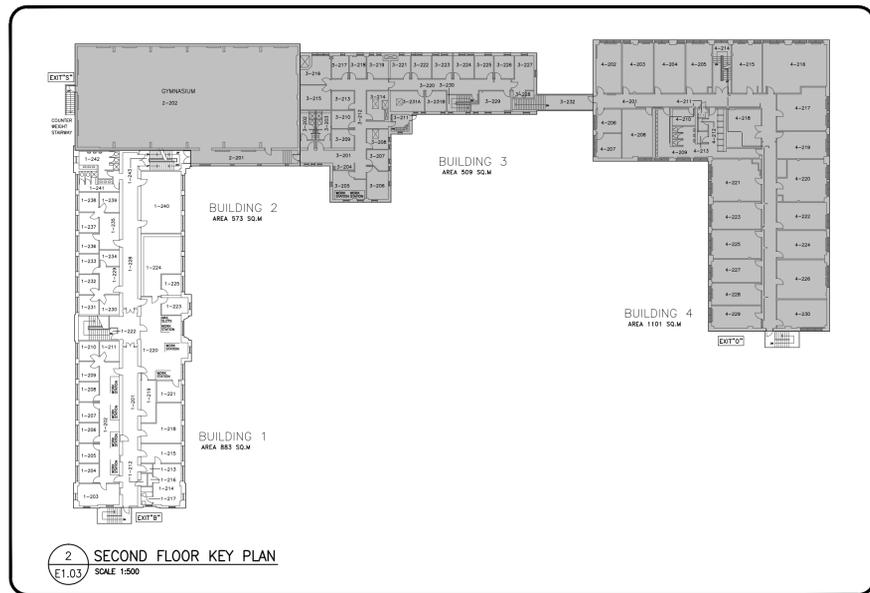
BUILDING 1
AREA 883 SQ.M

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

1. ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
2. ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
3. CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
4. REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
5. EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
6. ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

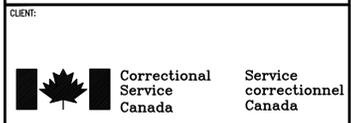
- 1 CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- 2 AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- 3 NOT USED.
- 4 EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



2 SECOND FLOOR KEY PLAN
SCALE 1:500



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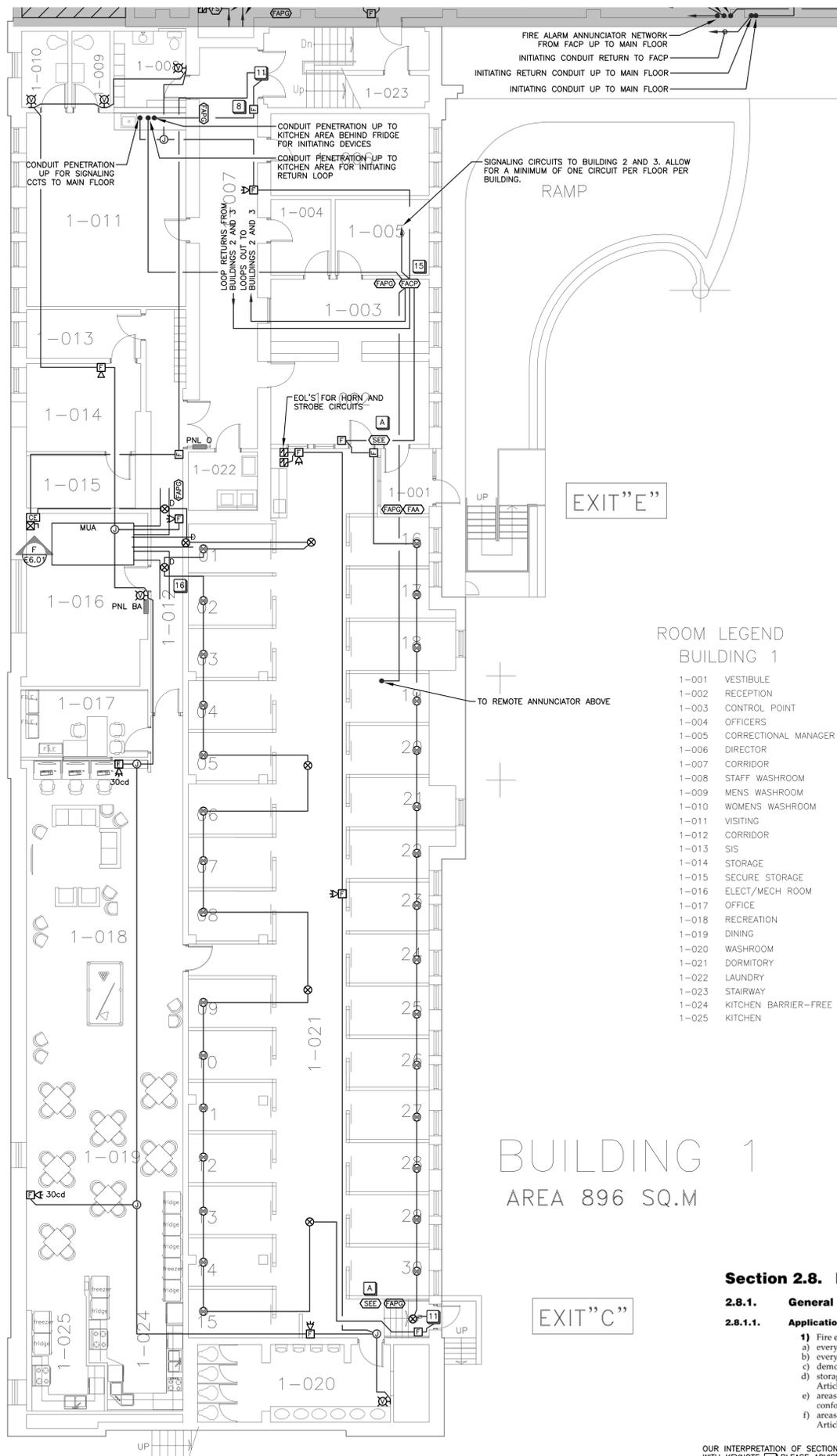


CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:
**GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE**

KEY PLAN:
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A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	
DISCIPLINE: ELECTRICAL	
TITLE: BUILDING 1 - SECOND FLOOR FIRE ALARM DEMOLITION	
SHEET NUMBER: E1.03	4 OF 28
ISSUE: ISSUED FOR TENDER	REV # A
DATE OF: 2018/09/26	



BUILDING 1
AREA 896 SQ.M

**ROOM LEGEND
BUILDING 1**

1-001	VESTIBULE
1-002	RECEPTION
1-003	CONTROL POINT
1-004	OFFICERS
1-005	CORRECTIONAL MANAGER
1-006	DIRECTOR
1-007	CORRIDOR
1-008	STAFF WASHROOM
1-009	MENS WASHROOM
1-010	WOMENS WASHROOM
1-011	VISITING
1-012	CORRIDOR
1-013	SIS
1-014	STORAGE
1-015	SECURE STORAGE
1-016	ELECT/MECH ROOM
1-017	OFFICE
1-018	RECREATION
1-019	DINING
1-020	WASHROOM
1-021	DORMITORY
1-022	LAUNDRY
1-023	STAIRWAY
1-024	KITCHEN BARRIER-FREE
1-025	KITCHEN

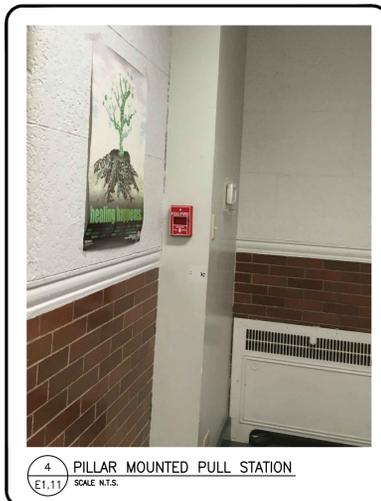
Section 2.8. Emergency Planning

- 2.8.1. General**
- 2.8.1.1. Application**
- Fire emergency procedures conforming to this Section shall be provided for
 - every building containing an assembly, care, treatment or detention occupancy,
 - every building required by the NBC to have a fire alarm system,
 - demolition and construction sites regulated under Section 5.6.,
 - storage areas required to have a fire safety plan in conformance with Articles 3.2.2.5. and 3.3.2.9.,
 - areas where flammable liquids or combustible liquids are stored or handled, in conformance with Article 4.1.5.5., and
 - areas where hazardous processes or operations occur, in conformance with Article 5.1.5.1.

OUR INTERPRETATION OF SECTION 2.8 IS SUCH THAT A SIGN SHALL BE INSTALLED IN LOCATIONS ASSOCIATED WITH KEYNOTE [A] PLEASE ADVISE IF THESE LOCATIONS ARE APPROPRIATE OR IF ADDITIONAL LOCATIONS ARE WARRANTED.



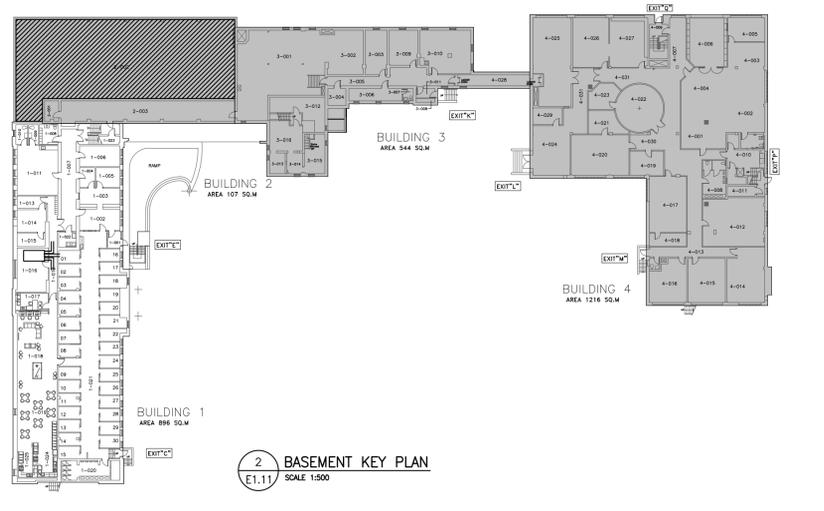
3 SPECIALTY PAINTING
SCALE N.T.S.



4 PILLAR MOUNTED PULL STATION
SCALE N.T.S.

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):**
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
 - NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
 - NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
 - EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
 - CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
 - ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
 - EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
 - ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
 - ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
 - SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
 - CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
 - CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
 - CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
 - CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
 - REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
 - CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
 - PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
 - CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

- CONSTRUCTION KEYNOTES:**
- BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
 - THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
 - THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
 - THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
 - THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
 - WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
 - NOT USED.
 - PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
 - CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
 - PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
 - SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
 - 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PMSGC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS UL-C-5561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
 - REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
 - CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN NATIONAL FIRE CODE SECTION 2.8.2.1.1.0 WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 BASEMENT KEY PLAN
SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:
Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
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GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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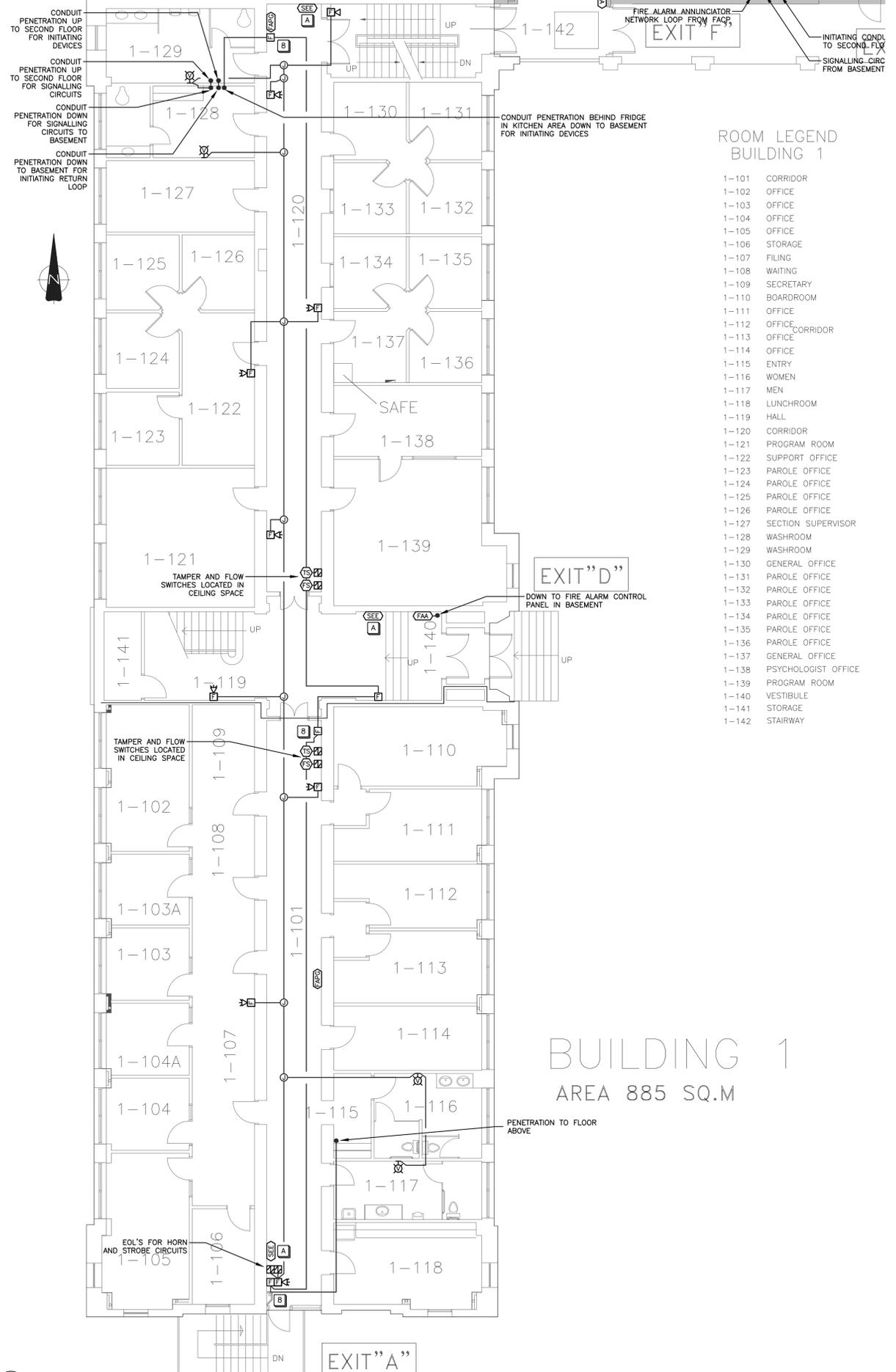
PROJECT NO: 171-04506-00
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ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:
BUILDING 1 - BASEMENT
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E1.11
SHEET # 5 OF 28

ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A



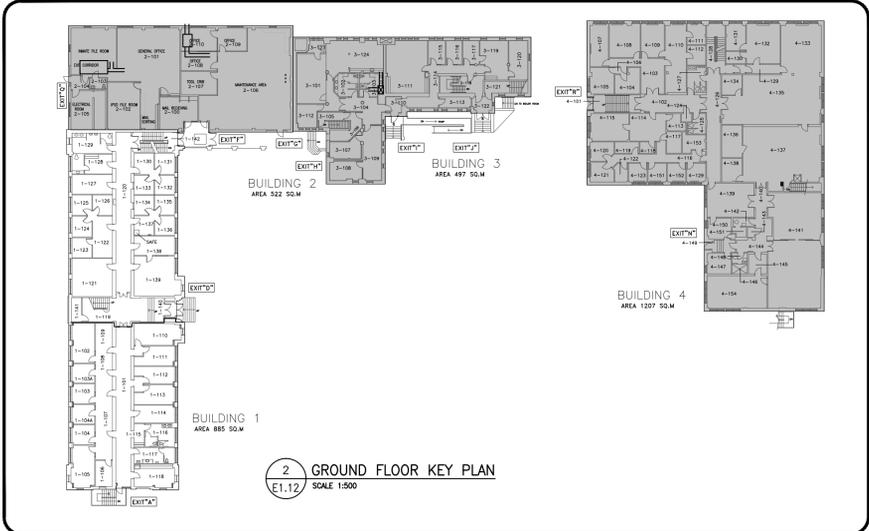
**ROOM LEGEND
BUILDING 1**

- 1-101 CORRIDOR
- 1-102 OFFICE
- 1-103 OFFICE
- 1-104 OFFICE
- 1-105 OFFICE
- 1-106 STORAGE
- 1-107 FILING
- 1-108 WAITING
- 1-109 SECRETARY
- 1-110 BOARDROOM
- 1-111 OFFICE
- 1-112 OFFICE CORRIDOR
- 1-113 OFFICE
- 1-114 OFFICE
- 1-115 ENTRY
- 1-116 WOMEN
- 1-117 MEN
- 1-118 LUNCHROOM
- 1-119 HALL
- 1-120 CORRIDOR
- 1-121 PROGRAM ROOM
- 1-122 SUPPORT OFFICE
- 1-123 PAROLE OFFICE
- 1-124 PAROLE OFFICE
- 1-125 PAROLE OFFICE
- 1-126 PAROLE OFFICE
- 1-127 SECTION SUPERVISOR
- 1-128 WASHROOM
- 1-129 WASHROOM
- 1-130 GENERAL OFFICE
- 1-131 PAROLE OFFICE
- 1-132 PAROLE OFFICE
- 1-133 PAROLE OFFICE
- 1-134 PAROLE OFFICE
- 1-135 PAROLE OFFICE
- 1-136 PAROLE OFFICE
- 1-137 GENERAL OFFICE
- 1-138 PSYCHOLOGIST OFFICE
- 1-139 PROGRAM ROOM
- 1-140 VESTIBULE
- 1-141 STORAGE
- 1-142 STAIRWAY

BUILDING 1
AREA 885 SQ.M

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2 & 3):**
1. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
 2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
 3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
 4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
 5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
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 19. PROVIDE CEILING MOUNTED LAMICODS FOR CEILING MOUNTED DEVICES (ie. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
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 - 4 THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
 - 5 THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
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 - 7 NOT USED.
 - 8 PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.12.
 - 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THIS ABOVE IN THEIR BID.
 - 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
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CONSULTANT:
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:
Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:
GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:
DISCLAIMER:
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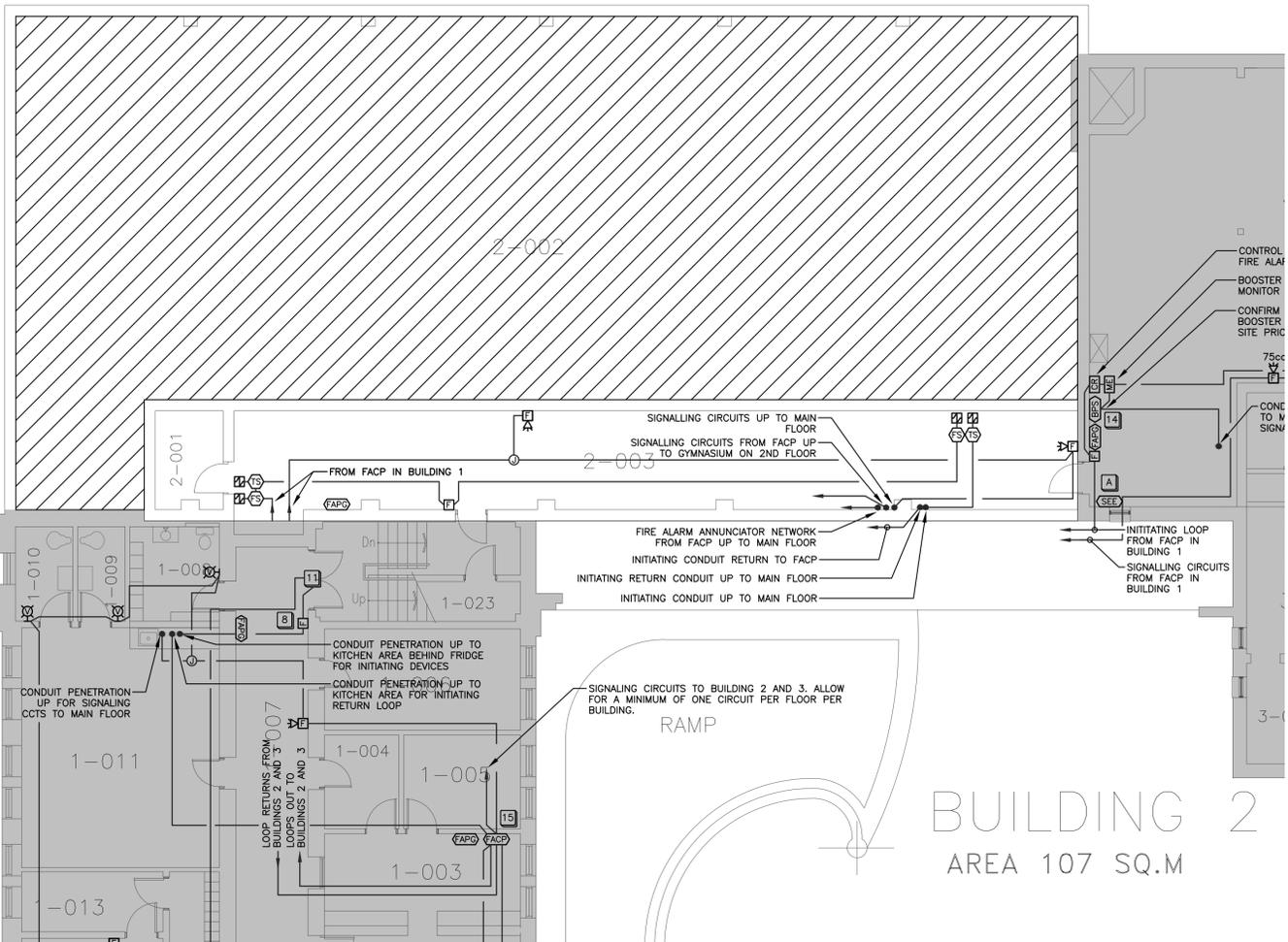
ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO:	171-04506-00	DATE:	2018/09/26
ORIGINAL SCALE:	AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	L. SHADE		
DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		
DISCIPLINE:	ELECTRICAL		
TITLE:	BUILDING 1 - GROUND FLOOR FIRE ALARM CONSTRUCTION		

SHEET NUMBER:	E1.12	REV #	A
SHEET #:	6 OF 28		
ISSUE:	ISSUED FOR TENDER		
DATE OF:	2018/09/26		

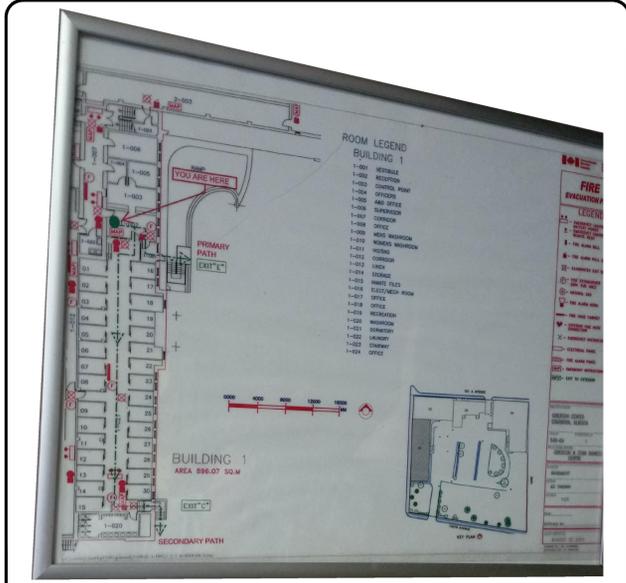
1 BUILDING 1 GROUND FLOOR CONSTRUCTION
SCALE 1:100



1 BUILDING 2 BASEMENT CONSTRUCTION
E2.11 SCALE 1:100

ROOM LEGEND
BUILDING 2

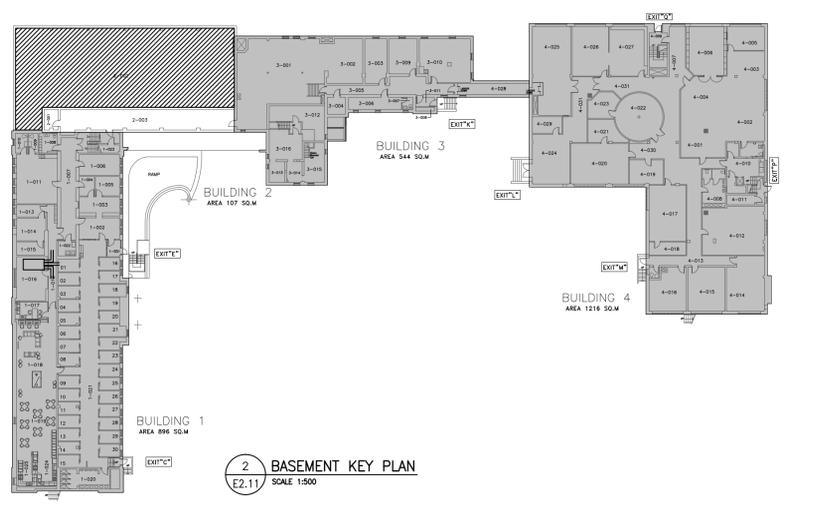
2-001	STORAGE - PAINT
2-002	UNEXCAVATED
2-003	CORRIDOR



3 TYPICAL BUILDING GRAPHIC
E2.11 SCALE N.T.S.

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):**
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2 BASEMENT KEY PLAN
E2.11 SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:

Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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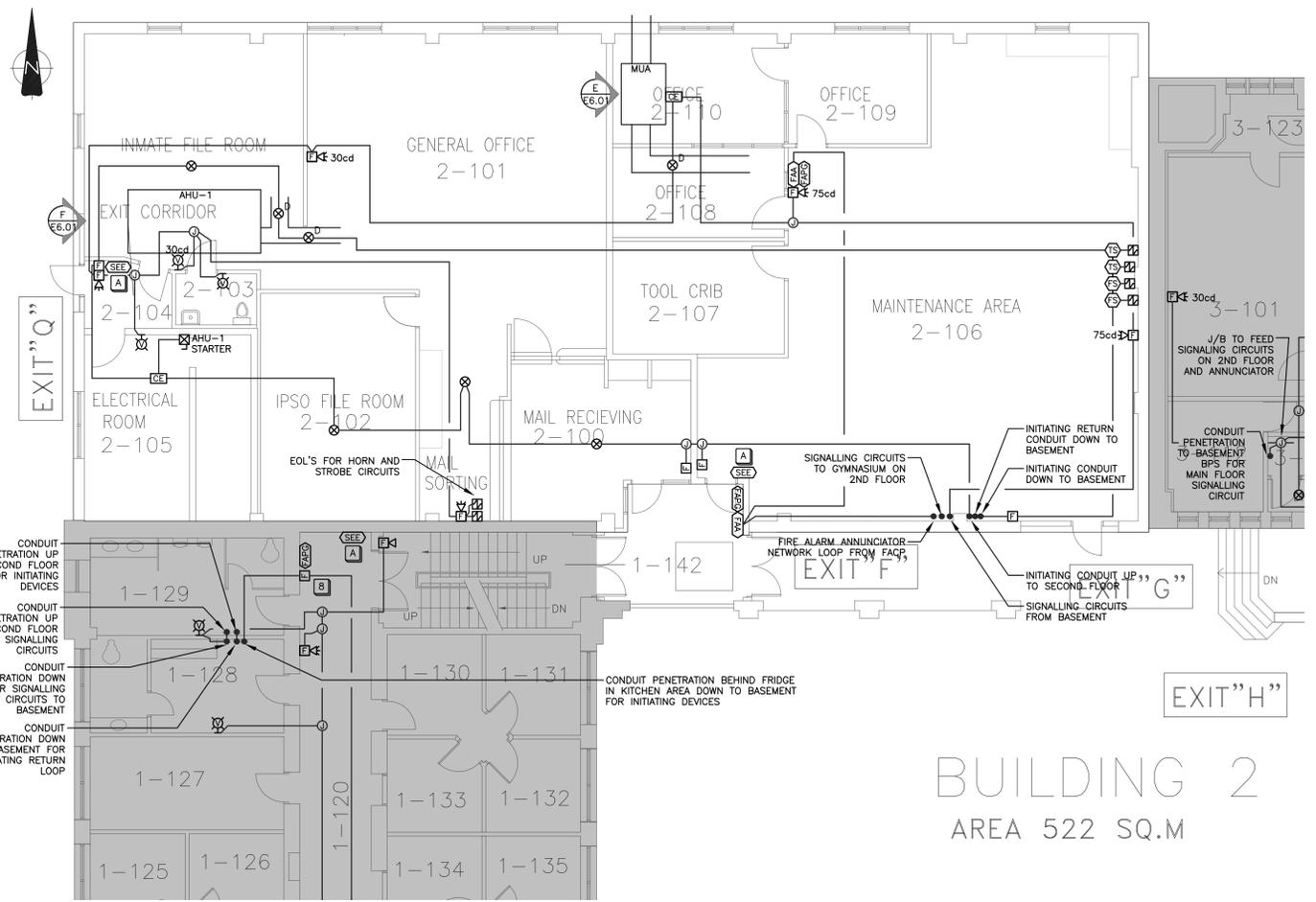
NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:

BUILDING 2 - BASEMENT
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E2.11
SHEET #: 11 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A



**ROOM LEGEND
BUILDING 2**

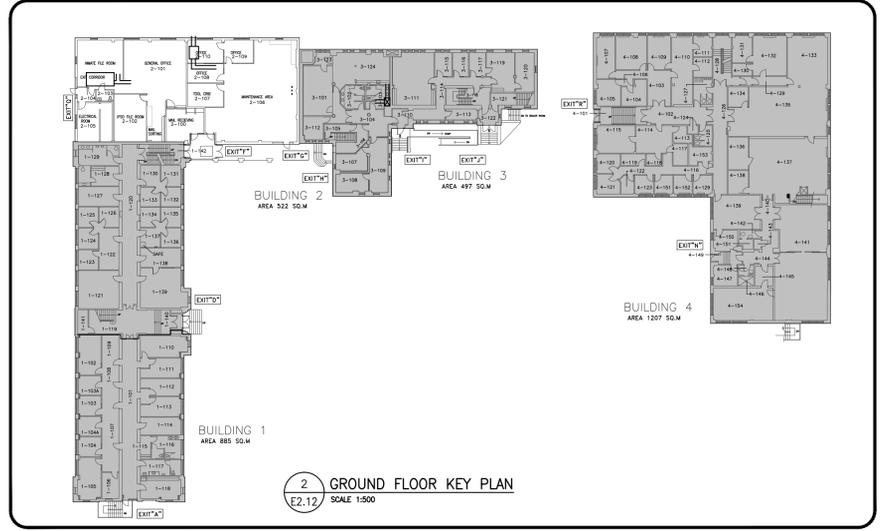
- 2-100 MAIL RECEIVING
- 2-101 GENERAL OFFICE
- 2-102 IPSO FILE ROOM
- 2-103 WASHROOM
- 2-104 EXIT CORRIDOR
- 2-105 ELECTRICAL ROOM
- 2-106 MAINTENANCE AREA
- 2-107 TOOL CRIB
- 2-108 OFFICE
- 2-109 OFFICE
- 2-110 OFFICE

BUILDING 2
AREA 522 SQ.M

1 BUILDING 2 GROUND FLOOR CONSTRUCTION
SCALE 1:100

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):**
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
 - NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
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 - PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
 - SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
 - 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
 - REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
 - CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTE "NATIONAL FIRE CODE SECTION 2.8.2.1.1.a WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WC GREIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



CONSULTANT:
WSP Canada Inc.
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WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:
Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

**GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE**

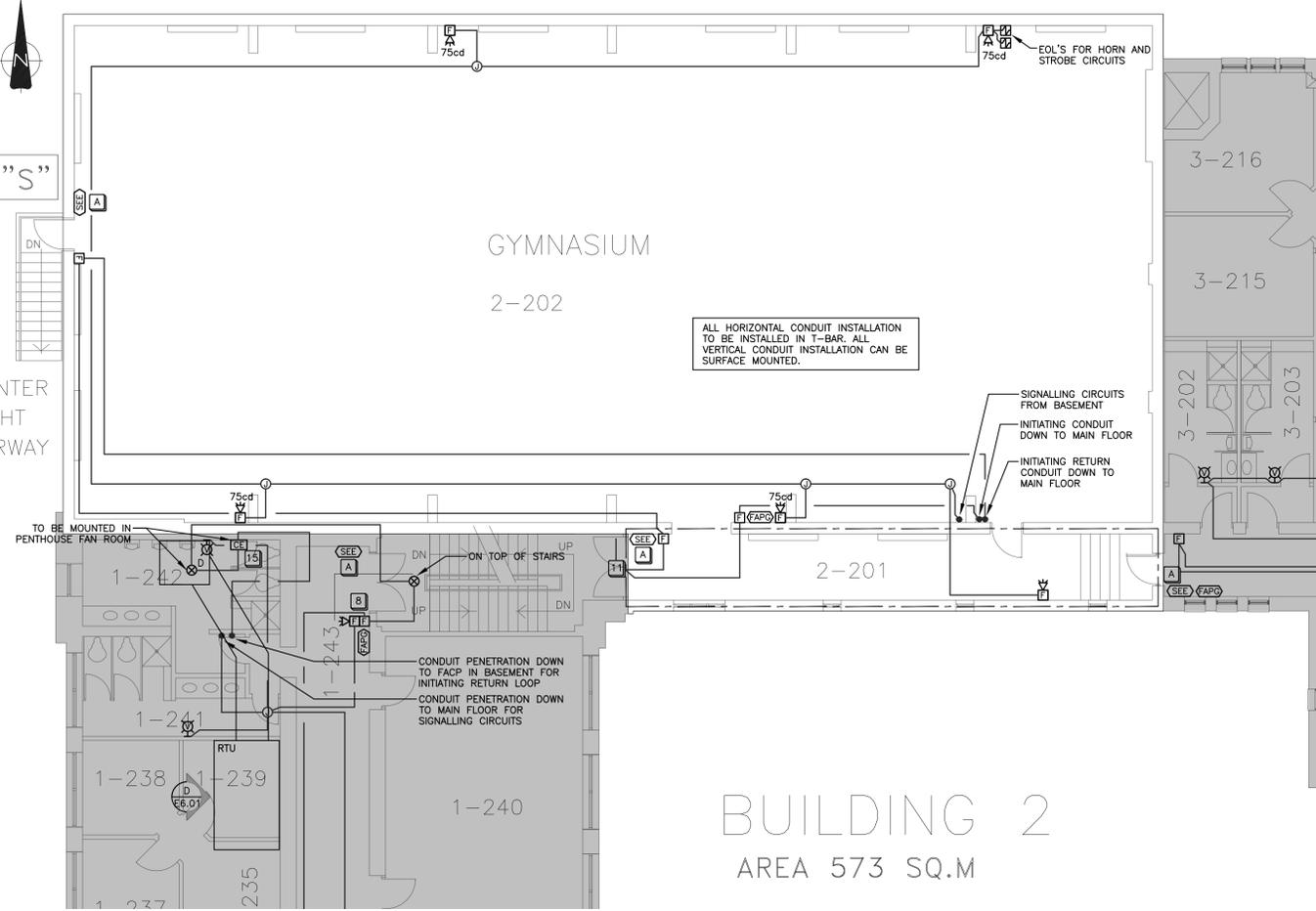
KEY PLAN:
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A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

**BUILDING 2 - GROUND FLOOR
FIRE ALARM CONSTRUCTION**

SHEET NUMBER: E2.12
SHEET #: 12 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A



1 BUILDING 2 SECOND FLOOR CONSTRUCTION
SCALE 1:100

ROOM LEGEND
BUILDING 2

- 2-201 CORRIDOR
- 2-202 GYMNASIUM

ALL HORIZONTAL CONDUIT INSTALLATION TO BE INSTALLED IN 1-BAR. ALL VERTICAL CONDUIT INSTALLATION CAN BE SURFACE MOUNTED.

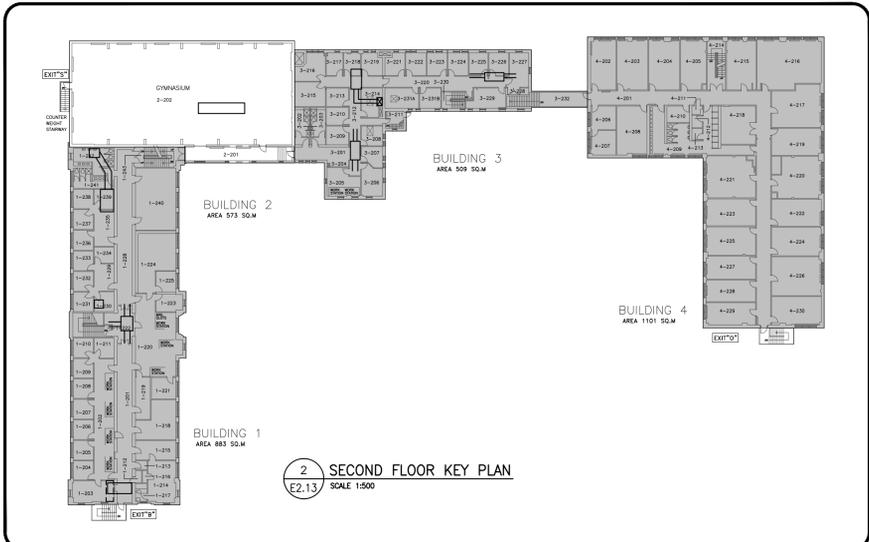
SIGNALLING CIRCUITS FROM BASEMENT
INITIATING CONDUIT DOWN TO MAIN FLOOR
INITIATING RETURN CONDUIT DOWN TO MAIN FLOOR

CONDUIT PENETRATION DOWN TO FACP IN BASEMENT FOR INITIATING RETURN LOOP
CONDUIT PENETRATION DOWN TO MAIN FLOOR FOR SIGNALLING CIRCUITS

BUILDING 2
AREA 573 SQ.M

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):
1. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
 2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
 3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
 4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
 5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
 6. ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
 7. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
 8. ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
 9. ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
 10. SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT C/W VOLTAGE WITH MANUFACTURER.
 11. CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
 12. CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 13. CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 14. CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
 15. CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
 16. CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
 17. REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
 18. CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
 19. PROVIDE CEILING MOUNTED LAMICOIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
 20. CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

- CONSTRUCTION KEYNOTES:
- 1 BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
 - 2 THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
 - 3 THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
 - 4 THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
 - 5 THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
 - 6 WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
 - 7 NOT USED.
 - 8 PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
 - 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
 - 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO THE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
 - 12 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
 - 13 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
 - 14 SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
 - 15 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
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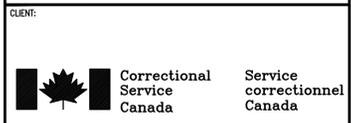


2 SECOND FLOOR KEY PLAN
SCALE 1:500



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CLIENT REF. # CLIENT_REFERENCE_#

PROJECT:
GREIRSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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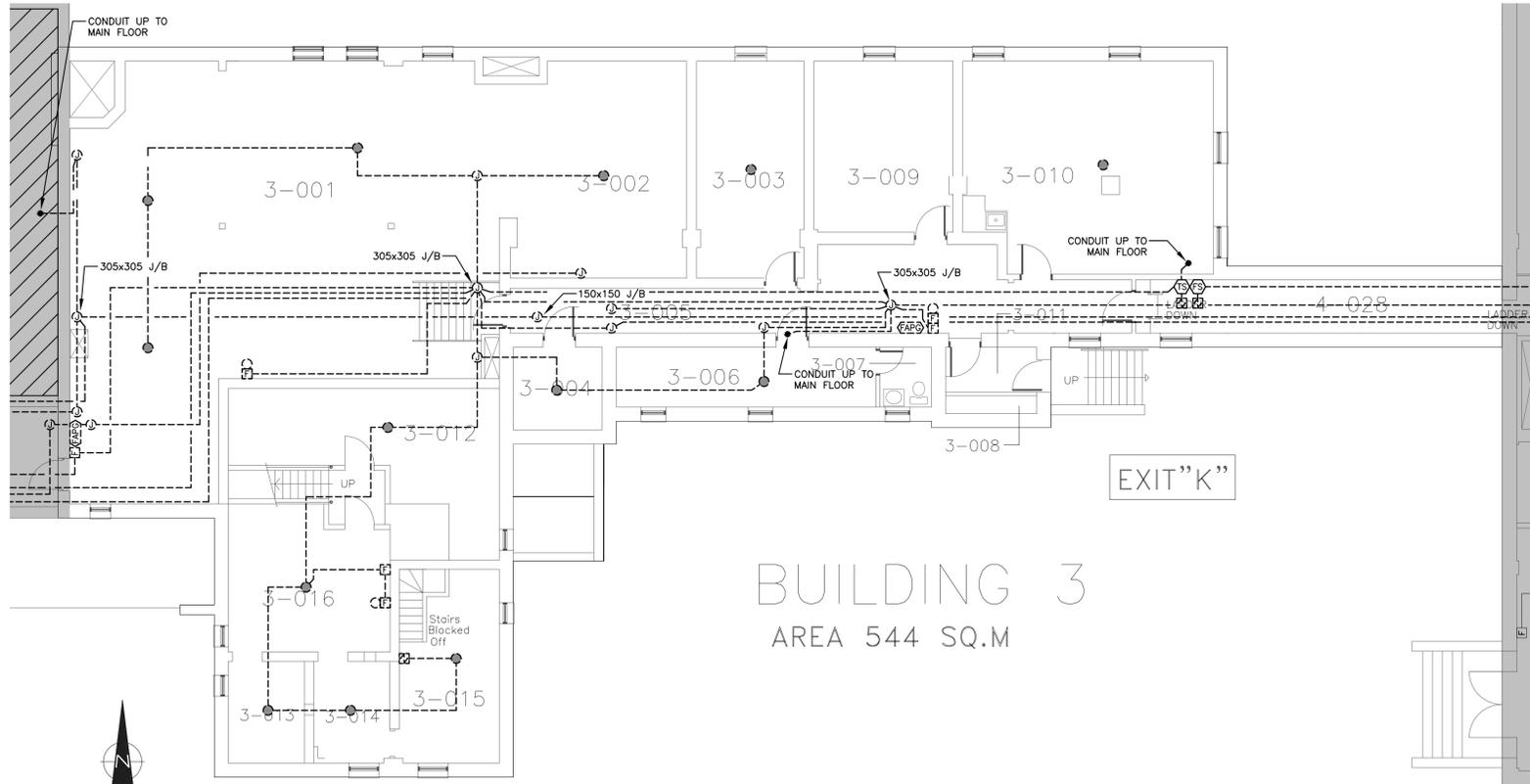
ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:
BUILDING 2 - SECOND FLOOR
FIRE ALARM CONSTRUCTION

SHEET NUMBER: E2.13
SHEET #: 13 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A



1 BUILDING 3 BASEMENT DEMOLITION
SCALE 1:100

ROOM LEGEND
BUILDING 3

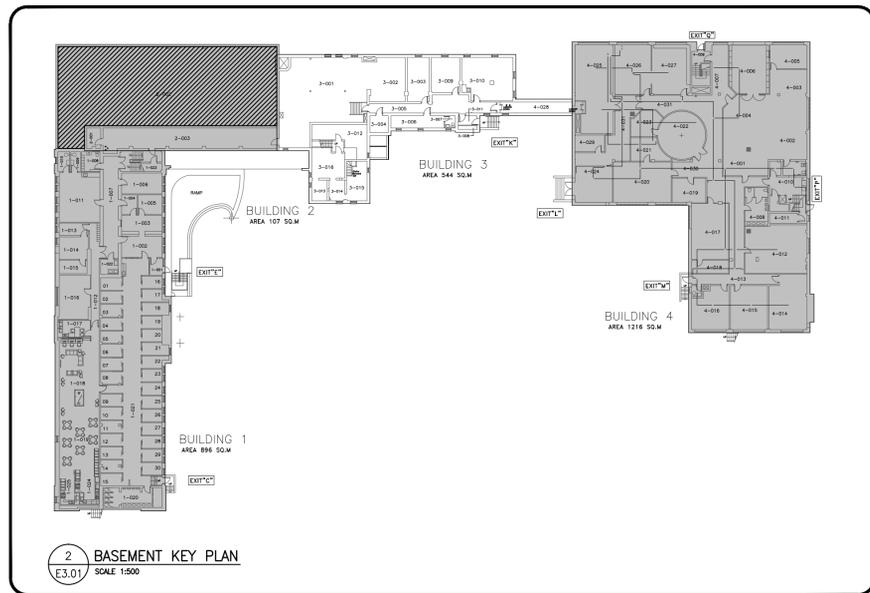
- 3-001 BOILER ROOM
- 3-002 ELECTRICAL ROOM
- 3-003 PLUMBING SHOP
- 3-004 STORAGE - CHEMICAL
- 3-005 CORRIDOR
- 3-006 PLUMBING SHOP
- 3-007 STAFF WASHROOM
- 3-008 STORAGE
- 3-009 STORAGE
- 3-010 CARPENTRY SHOP
- 3-011 VESTIBULE
- 3-012 STORAGE
- 3-013 STORAGE
- 3-014 STORAGE
- 3-015 STORAGE
- 3-016 STORAGE

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

- ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
- ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
- CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
- REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
- EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
- ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGNOSTIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- NOT USED.
- EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



2 BASEMENT KEY PLAN
SCALE 1:500



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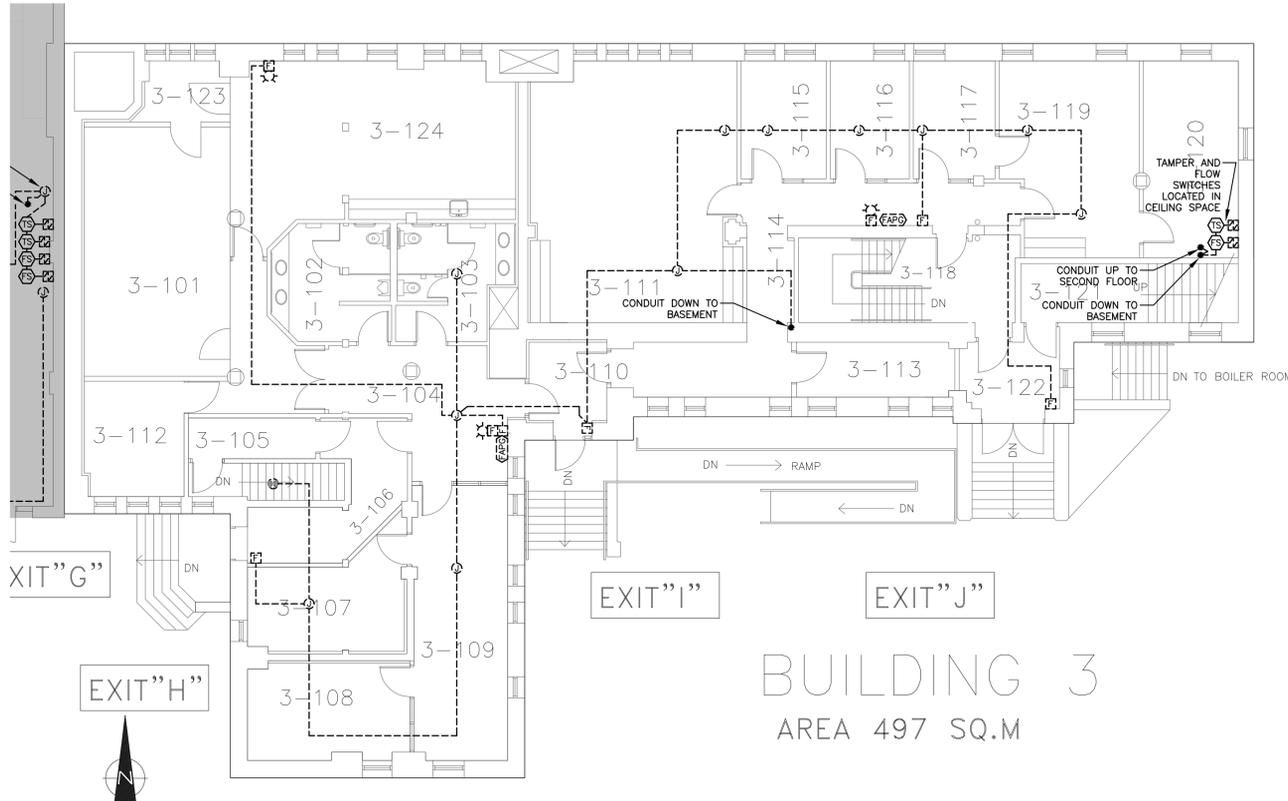
CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:
GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:
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ISSUED FOR - REVISION:	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:
BUILDING 3 - BASEMENT
FIRE ALARM DEMOLITION
SHEET NUMBER: E3.01
SHEET #: 14 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A



**ROOM LEGEND
BUILDING 3**

- 3-101 PROGRAM ROOM 2
- 3-102 WASHROOM
- 3-103 WASHROOM
- 3-104 CORRIDOR
- 3-104 STORAGE
- 3-105 CORRIDOR
- 3-106 CORRIDOR
- 3-107 OFFICE
- 3-108 OFFICE
- 3-109 OFFICE
- 3-110 CORRIDOR
- 3-111 PROGRAM ROOM 3
- 3-112 OFFICE
- 3-113 OFFICE
- 3-114 CORRIDOR
- 3-115 OFFICE
- 3-116 OFFICE
- 3-117 HEALTH CARE
- 3-118 STAIRWAY
- 3-119 OFFICE
- 3-120 OFFICE
- 3-121 PROGRAM ROOM 1
- 3-122 VESTIBULE
- 3-123 VESTIBULE
- 3-124 VESTIBULE

BUILDING 3
AREA 497 SQ.M

1 BUILDING 3 GROUND FLOOR DEMOLITION
SCALE 1:100

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

1. ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
2. ALL EXISTING FIRE ALARM DEVICES, PANELS, AND MISCELLANEOUS PARTS TO BE DISPOSED BY THE CONTRACTOR. PRIOR TO DISPOSAL, COORDINATE WITH CORRECTIONAL SERVICES CANADA IF THEY WOULD LIKE TO RETAIN.
3. CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALLING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
4. REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
5. EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
6. ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- 1 CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- 2 AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- 3 NOT USED.
- 4 EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta



CLIENT:



Correctional Service Canada

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CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

**GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE**

KEY PLAN:

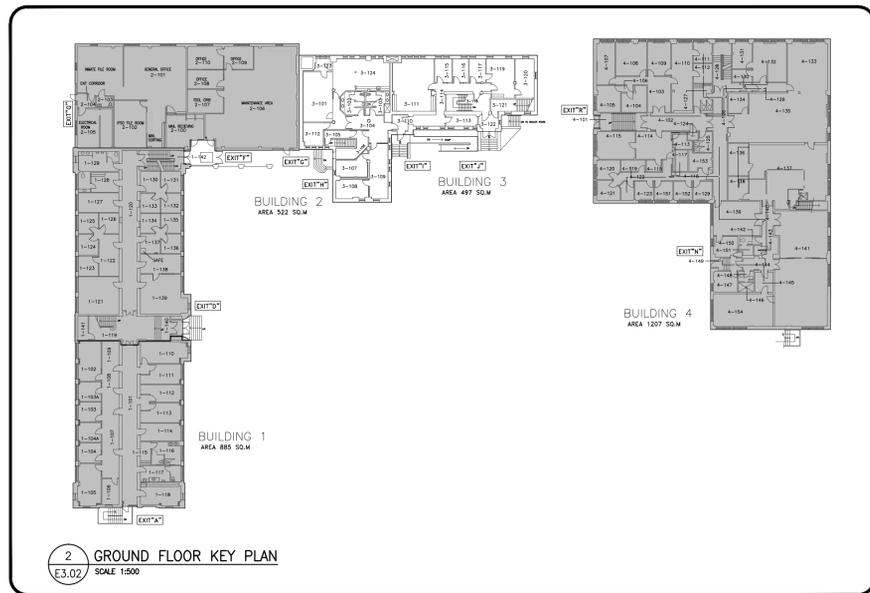
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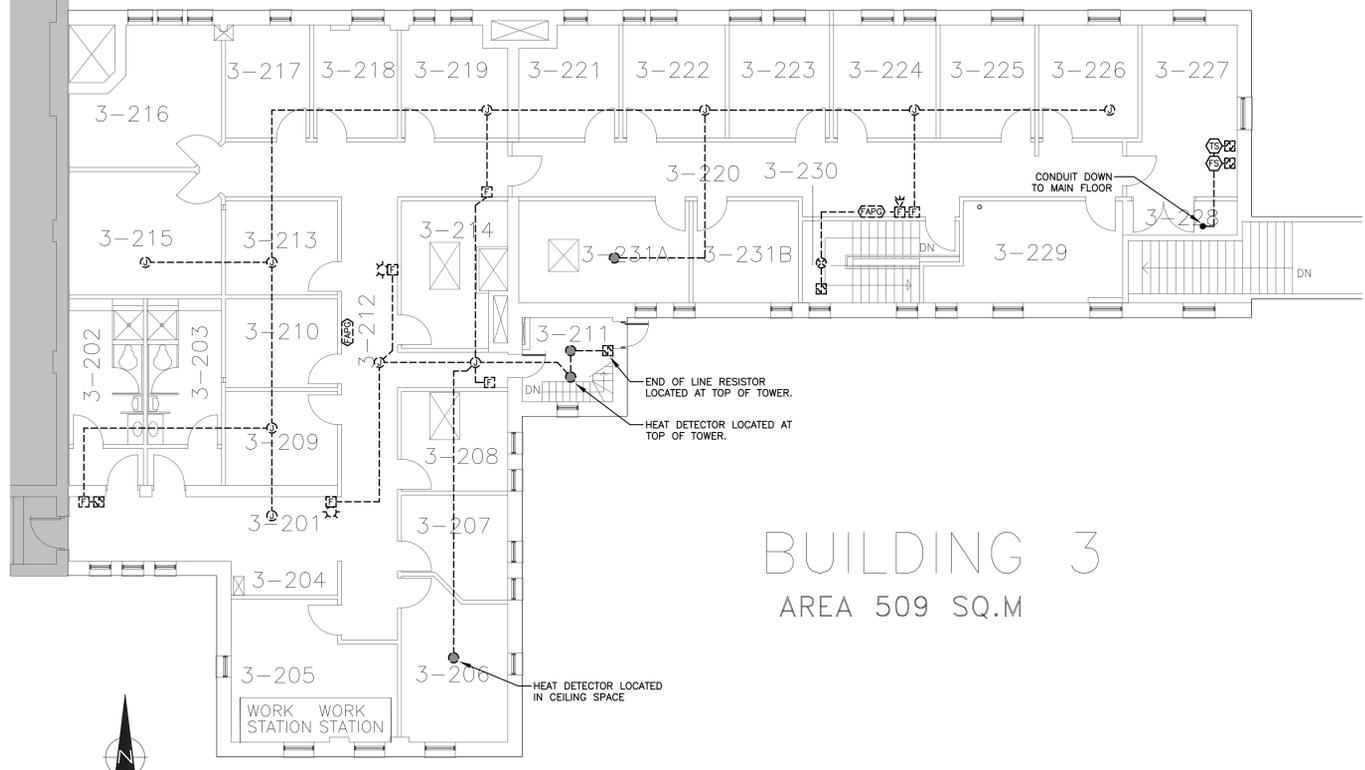
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NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	1"
DISCIPLINE: ELECTRICAL	
TITLE: BUILDING 3 - GROUND FLOOR FIRE ALARM DEMOLITION	
SHEET NUMBER: E3.02	
SHEET #: 15 OF 28	REV #: A
ISSUED FOR TENDER DATE OF: 2018/09/26	



2 GROUND FLOOR KEY PLAN
SCALE 1:500



BUILDING 3
AREA 509 SQ.M

ROOM LEGEND
BUILDING 3

- 3-201 CORRIDOR
- 3-202 WASHROOM
- 3-203 WASHROOM
- 3-204 CLOSET
- 3-205 OFFICE
- 3-206 OFFICE
- 3-207 OFFICE
- 3-208 OFFICE
- 3-209 OFFICE
- 3-210 OFFICE
- 3-211 STAIRWAY
- 3-212 CORRIDOR
- 3-213 OFFICE
- 3-214 OFFICE
- 3-215 OFFICE
- 3-216 OFFICE
- 3-217 OFFICE
- 3-218 OFFICE
- 3-219 OFFICE
- 3-220 CORRIDOR
- 3-221 OFFICE
- 3-222 OFFICE
- 3-223 OFFICE
- 3-224 OFFICE
- 3-225 OFFICE
- 3-226 OFFICE
- 3-227 LUNCHROOM
- 3-228 CLOSET
- 3-229 OFFICE
- 3-230 STAIRWAY
- 3-231A OFFICE
- 3-231B OFFICE
- 3-232 WALKWAY

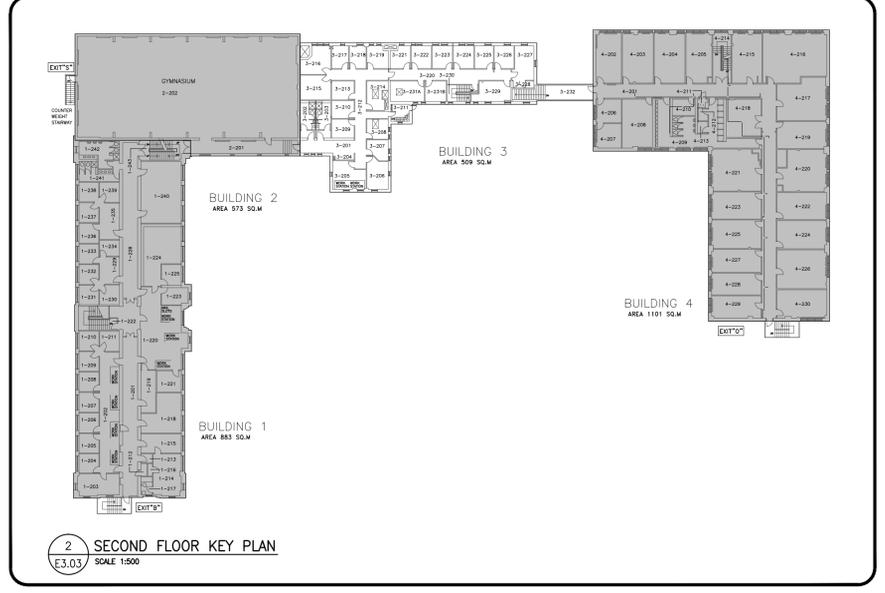
1 BUILDING 3 SECOND FLOOR DEMOLITION
E3.03 SCALE 1:100

DEMOLITION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):

1. ALL DEVICES ARE EXISTING TO BE REMOVED BACK TO THE SOURCE (INCLUDING, BUT NOT LIMITED TO, CONDUIT, CABLING, DEVICES, BOXES, FITTINGS, PANELS, ETC.) UNLESS OTHERWISE NOTED.
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3. CONTRACTOR IS TO PATCH, REPAIR, AND PAINT CEILINGS, WALLS, AND PENETRATIONS WHERE POSSIBLE. IN AREAS OF BRICK/TILE WALLS, CONTRACTOR IS TO SUPPLY AND INSTALL A STEEL COVER PLATE. THIS IS FOR INITIATING DEVICES, SIGNALING DEVICES, AND END OF LINE RESISTORS. LOCATIONS OF END OF LINE RESISTORS ARE NOT SHOWN ON DRAWINGS.
4. REPAIR IS TO INCLUDE REMOVED FIRE SPRAY, INSULATION, ETC. CONTRACTOR TO REPAIR AND PROVIDE FIRE SPRAY, INSULATION, ETC. TO MAINTAIN EXISTING RATING. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED.
5. EXISTING FIRE ALARM SYSTEM IS TO REMAIN OPERATIONAL UNTIL NEW SYSTEM IS FULLY FUNCTIONAL AND VERIFICATION IS COMPLETE. DOWNTIME OF THE FIRE ALARM SYSTEM SHALL BE LIMITED AND FIRE WATCH SHOULD BE ALLOWED FOR IN THE BID DURING DOWNTIME OF THE FIRE ALARM SYSTEM.
6. ALL EXISTING CONDUIT RUNS SHOWN ON DEMOLITION DRAWINGS ARE FOR DIAGRAMMATIC PURPOSES ONLY AND NOT ALL EXISTING CONDUIT RUNS MAY BE SHOWN. CONTRACTOR TO EXAMINE SITE PRIOR TO BID.

DEMOLITION KEYNOTES:

- 1 CONFIRM EXACT LOCATION OF DETECTORS IN MECHANICAL ROOMS, MAINTENANCE AREAS, ETC. ON SITE.
- 2 AREA DENOTED BY HATCH HAS BEEN ABANDONED AND DEMOLITION OF EXISTING DEVICES, CONDUIT, CABLING, ETC. IS NOT INCLUDED IN THE SCOPE OF THIS PROJECT. (APPLICABLE TO BUILDING 2 BASEMENT - REFER TO DWG E2.01).
- 3 NOT USED.
- 4 EXISTING DOOR TIED INTO FIRE ALARM SYSTEM TO BE DISCONNECTED AND RECONNECTED TO NEW FIRE ALARM SYSTEM. REFER TO CONSTRUCTION DRAWINGS.



2 SECOND FLOOR KEY PLAN
E3.03 SCALE 1:500



CONSULTANT:
SEAL:
PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:
Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:
GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

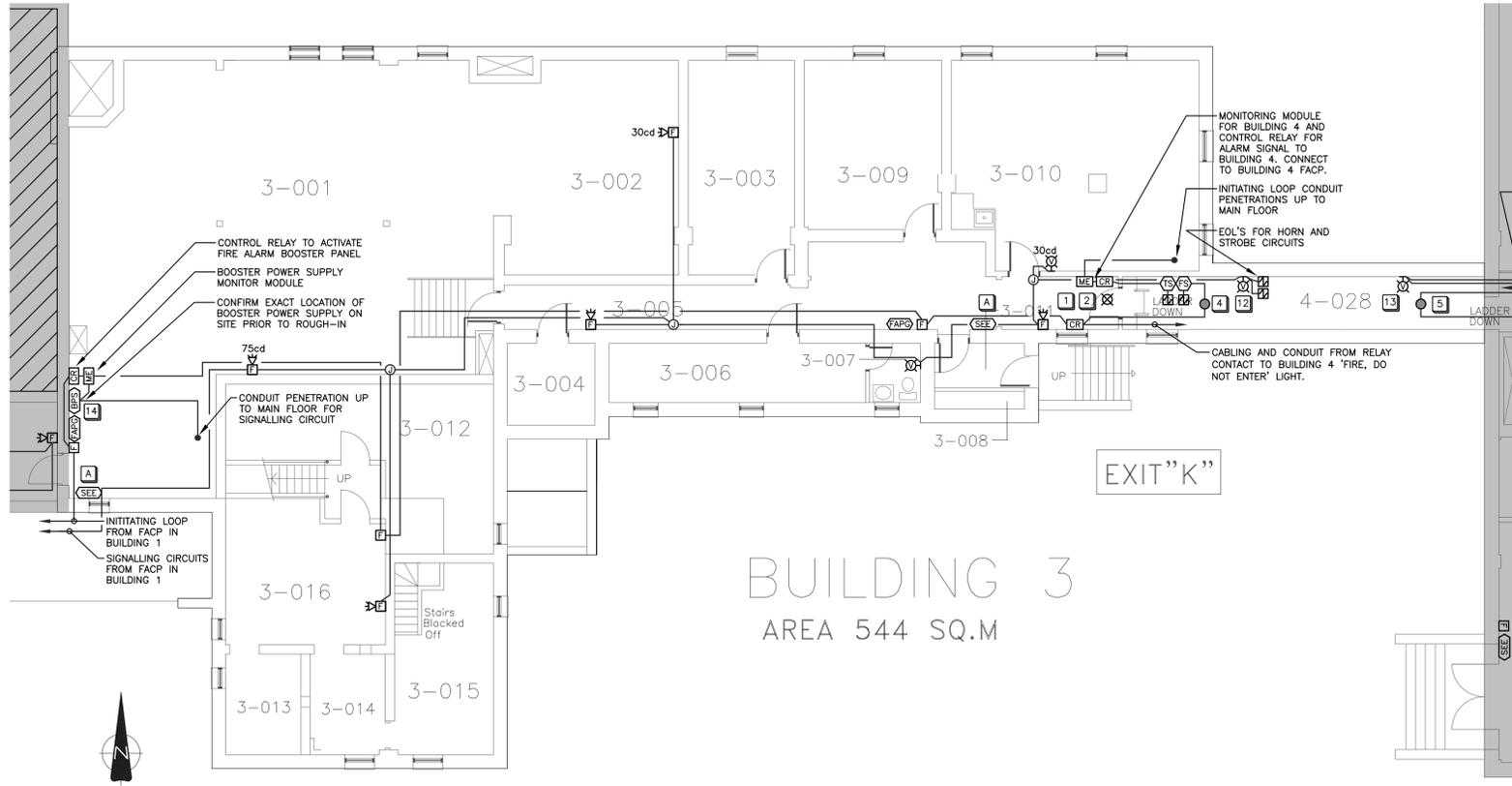
KEY PLAN:
DISCLAIMER:
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ISSUED FOR - REVISION:	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

TITLE:
BUILDING 3 - SECOND FLOOR
FIRE ALARM DEMOLITION

SHEET NUMBER: E3.03
SHEET #: 16 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV # A



BUILDING 3
AREA 544 SQ.M

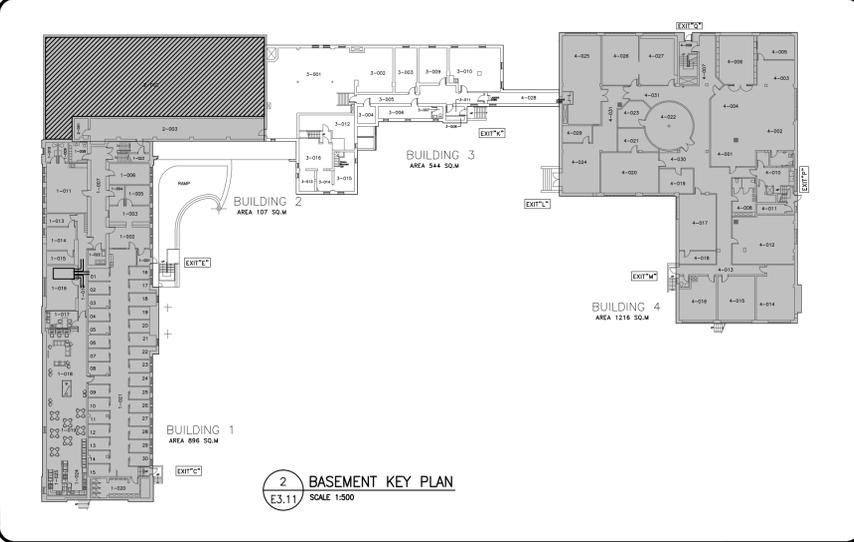
1 BUILDING 3 BASEMENT CONSTRUCTION
E3.11 SCALE 1:100

ROOM LEGEND
BUILDING 3

- 3-001 BOILER ROOM
- 3-002 ELECTRICAL ROOM
- 3-003 PLUMBING SHOP
- 3-004 STORAGE - CHEMICAL
- 3-005 CORRIDOR
- 3-006 PLUMBING SHOP
- 3-007 STAFF WASHROOM
- 3-008 STORAGE
- 3-009 STORAGE
- 3-010 CARPENTRY SHOP
- 3-011 VESTIBULE
- 3-012 STORAGE
- 3-013 STORAGE
- 3-014 STORAGE
- 3-015 STORAGE
- 3-016 STORAGE

- CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2, & 3):**
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
 - NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
 - NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
 - EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
 - CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
 - ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
 - EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
 - ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
 - ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
 - SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
 - CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
 - CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
 - CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
 - CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
 - CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
 - REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
 - CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
 - PROVIDE CEILING MOUNTED LAMICIDS FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
 - CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

- CONSTRUCTION KEYNOTES:**
- BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-11-WH-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
 - THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
 - THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
 - THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
 - THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
 - WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
 - NOT USED.
 - PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
 - CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THE WORK ABOVE IN THEIR BID.
 - PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
 - ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO THE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
 - LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
 - SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES ARE REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
 - 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS UL-C-SS61 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
 - REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
 - CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTED IN NATIONAL FIRE CODE SECTION 2.8.2.1.1.g WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS, GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 BASEMENT KEY PLAN
E3.11 SCALE 1:500



CONSULTANT:

SEAL:

PERMIT TO PRACTICE
WSP Canada Inc.
PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

CLIENT:

Correctional Service Canada
Service correctionnel Canada

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26

ORIGINAL SCALE: AS NOTED
IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.

DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO

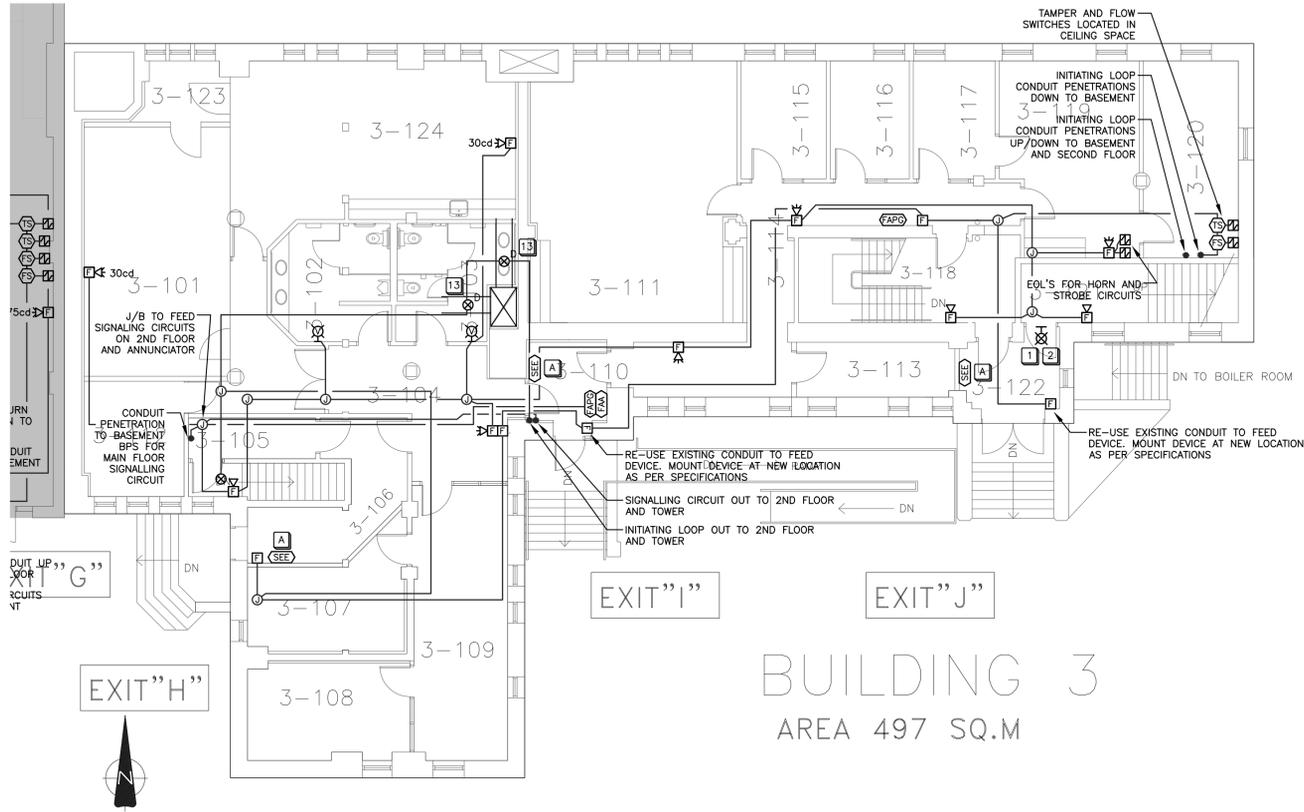
DISCIPLINE: ELECTRICAL

TITLE: BUILDING 3 - BASEMENT FIRE ALARM CONSTRUCTION

SHEET NUMBER: E3.11
SHEET # 17 OF 28

ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26

REV # A



**ROOM LEGEND
BUILDING 3**

- 3-101 PROGRAM ROOM 2
- 3-102 WASHROOM
- 3-103 WASHROOM
- 3-104 CORRIDOR
- 3-105 STORAGE
- 3-106 CORRIDOR
- 3-107 OFFICE
- 3-108 OFFICE
- 3-109 OFFICE
- 3-110 CORRIDOR
- 3-111 PROGRAM ROOM 3
- 3-112 OFFICE
- 3-113 OFFICE
- 3-114 CORRIDOR
- 3-115 OFFICE
- 3-116 OFFICE
- 3-117 HEALTH CARE
- 3-118 STAIRWAY
- 3-119 OFFICE
- 3-120 OFFICE
- 3-121 PROGRAM ROOM 1
- 3-122 VESTIBULE
- 3-123 VESTIBULE
- 3-124 VESTIBULE

BUILDING 3
AREA 497 SQ.M

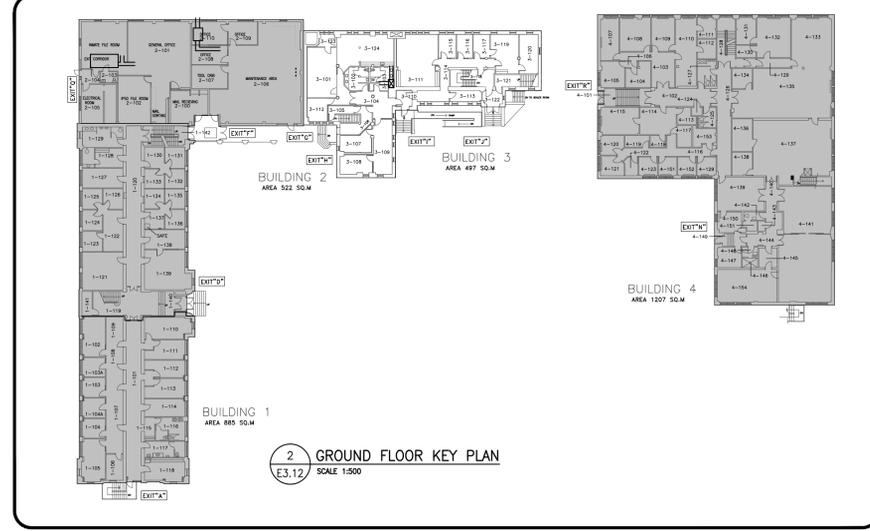
1 BUILDING 3 GROUND FLOOR CONSTRUCTION
E3.12 SCALE 1:100

CONSTRUCTION GENERAL NOTES (FOR BUILDINGS 1, 2 & 3):

1. DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED.
2. NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
3. NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
4. EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
5. CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM AS WELL AS CONSIDER ANY HAZARDOUS MATERIAL CONSIDERATIONS, TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
6. ALL CONDUITS, CABLES AND JUNCTION BOXES ARE TO BE NEW. NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM.
7. EXISTING FIRE SEPARATIONS ARE TO BE MAINTAINED. THIS IS TO INCLUDE, BUT IS NOT LIMITED TO, BETWEEN FLOORS AND BETWEEN BUILDINGS.
8. ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
9. ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
10. SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL. PROVIDE DC CIRCUIT TO ALL THE SOUNDER BASES IN BEDROOMS. CONFIRM EXACT DC VOLTAGE WITH MANUFACTURER.
11. CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
12. CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
13. CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHER LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
14. CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
15. CONTRACTOR TO INSTALL INITIATING AND SIGNALLING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
16. CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW FOR FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING NO ASBESTOS AND FIVE (5) ADDITIONAL ACCESS HATCHES IN DRYWALL CONTAINING MODERATE RISK ASBESTOS ABATEMENT LEVELS.
17. REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
18. CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
19. PROVIDE CEILING MOUNTED LAMICODS FOR CEILING MOUNTED DEVICES (ie. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
20. CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

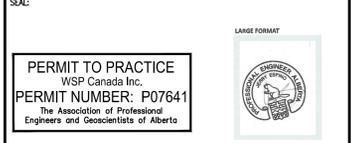
- 1 BILLINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- 2 THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- 3 THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2 AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- 4 THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- 5 THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- 6 WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- 7 NOT USED.
- 8 PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E3.12.
- 9 CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THIS ABOVE IN THEIR BID.
- 10 PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- 11 ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO TIE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- 12 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- 13 LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- 14 SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 15 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWCS. ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULCC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- 16 REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- A CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTE NATIONAL FIRE CODE SECTION 2.8.2.1.1.0 WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WORKS GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



2 GROUND FLOOR KEY PLAN
E3.12 SCALE 1:500



CONSULTANT:
SEAL:



CLIENT:
Correctional Service Canada / **Service correctionnel Canada**

CLIENT REF. #: CLIENT_REFERENCE_#
PROJECT:

**GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE**

KEY PLAN:

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ISSUED FOR - REVISION:

NO.	DATE	DESCRIPTION
A	2018/09/26	ISSUED FOR TENDER

PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL

**BUILDING 3 - GROUND FLOOR
FIRE ALARM CONSTRUCTION**

SHEET NUMBER: E3.12
SHEET #: 18 OF 28
ISSUE: ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A

**ROOM LEGEND
BUILDING 4**

- | | | | |
|-------|--------------|-------|--------------|
| 4-101 | CORRIDOR | 4-144 | LOUNGE |
| 4-102 | CORRIDOR | 4-145 | STORAGE |
| 4-103 | LOBBY | 4-146 | WASHROOM |
| 4-104 | OFFICE | 4-147 | BEDROOM |
| 4-105 | OFFICE | 4-148 | CORRIDOR |
| 4-106 | ENTRY | 4-149 | VESTIBULE |
| 4-107 | OFFICE | 4-150 | BEDROOM |
| 4-108 | OFFICE | 4-151 | OFFICE |
| 4-109 | OFFICE | 4-152 | OFFICE |
| 4-110 | OFFICE | 4-153 | WASHROOM |
| 4-111 | OFFICE | 4-154 | MEETING ROOM |
| 4-112 | OFFICE | | |
| 4-113 | STORAGE | | |
| 4-114 | OFFICE | | |
| 4-115 | OFFICE | | |
| 4-116 | CORRIDOR | | |
| 4-117 | HOLDING ROOM | | |
| 4-118 | STORAGE | | |
| 4-119 | STORAGE | | |
| 4-120 | OFFICE | | |
| 4-121 | OFFICE | | |
| 4-122 | OFFICE | | |
| 4-123 | OFFICE | | |
| 4-124 | MOP ROOM | | |
| 4-125 | WASHROOM | | |
| 4-126 | CORRIDOR | | |
| 4-127 | WASHROOM | | |
| 4-128 | CORRIDOR | | |
| 4-129 | CORRIDOR | | |
| 4-130 | STORAGE | | |
| 4-131 | STORAGE | | |
| 4-132 | BEDROOM | | |
| 4-133 | DINING | | |
| 4-134 | OFFICE | | |
| 4-135 | DINING | | |
| 4-136 | FREEZER | | |
| 4-137 | KITCHEN | | |
| 4-138 | STORAGE | | |
| 4-139 | LOUNGE | | |
| 4-140 | CORRIDOR | | |
| 4-141 | LOUNGE | | |
| 4-142 | WASHROOM | | |
| 4-143 | STORAGE | | |

CONSTRUCTION GENERAL NOTES (FOR BUILDING 4):

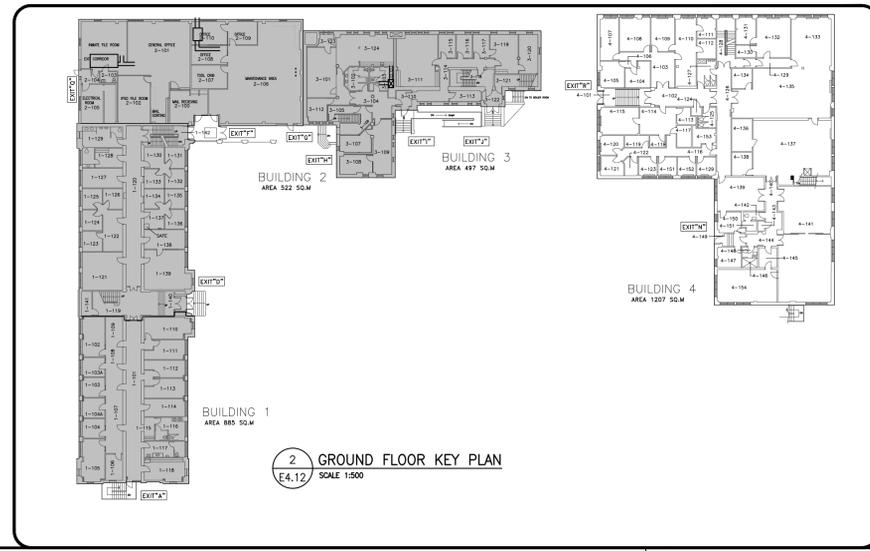
- CONTRACTOR TO ALLOW FOR ADDITIONAL CONDUIT AND CABLE AS REQUIRED.
- DEVICES SHOWN ARE TO BE NEW UNLESS OTHERWISE NOTED. DEVICES SHALL BE A ONE-TO-ONE REPLACEMENT OF EXISTING DEVICES. ALL SIGNALING BELLS AND BELL STROBES SHALL BE REPLACED WITH HORN STROBES.
- NEW DEVICES LOCATED IN BUILDINGS 1, 2, AND 3 ARE TO BE TIED INTO FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 1.
- NEW DEVICES LOCATED IN BUILDING 4 ARE TO BE TIED INTO NEW FIRE ALARM CONTROL PANEL LOCATED IN BUILDING 4.
- EACH FIRE ALARM CONTROL PANEL WILL SEND A SUPERVISORY SIGNAL TO THE OTHER PANEL WHEN THE SYSTEM IT MONITORS GOES INTO ALARM. CONNECTION BETWEEN THE FIRE ALARM PANELS SHALL BE ROUTED THROUGH THE TUNNELS CONNECTING BUILDING 3 AND BUILDING 4. CONDUIT SHALL NOT PENETRATE THE EXTERIOR OF THE BUILDING.
- CONTRACTOR TO CONFIRM EXACT CEILING AND WALL TYPES IN EACH ROOM TO DETERMINE MOUNTING REQUIREMENTS PRIOR TO INSTALLATION.
- NEW CONDUIT ROUTING AND JUNCTION BOXES ARE SHOWN FOR DIAGRAMMATIC PURPOSES ONLY. CONTRACTOR TO CONFIRM EXACT CONDUIT RUNS AND PENETRATIONS ON SITE. ENSURE EXISTING FIRE ALARM SYSTEM REMAINS OPERATIONAL DURING CONSTRUCTION OF THE NEW FIRE ALARM SYSTEM OR CONTRACTOR TO PROVIDE ADEQUATE FIRE WATCH.
- ALL DEVICES TO BE FED VIA IDENTIFIED FIRE ALARM CONDUIT C/W 4-WIRES.
- ALL FIRE ALARM STROBE CANDELA RATINGS ARE 15cd UNLESS OTHERWISE NOTED ADJACENT TO DEVICE. ALL STROBES TO BE SYNCHRONIZED.
- SMOKE DETECTORS C/W LOCALIZED ALARMS SHALL BE INSTALLED IN SLEEPING ROOMS. THESE DEVICES WILL SOUND LOCALLY WHEN SMOKE IS DETECTED AND CEASE WHEN THE SMOKE HAS CLEARED. A SUPERVISORY SIGNAL WILL BE SENT TO THE FIRE ALARM PANEL.
- CONDUIT SHALL BE RECESSED IN ALL AREAS WITH THE EXCEPTION OF AREAS CONSISTING OF BRICK OR TILE OR IN MECHANICAL OR ELECTRICAL ROOMS. SURFACE CONDUIT IN THESE AREAS SHALL BE PAINTED TO MATCH THE COLOUR OF THE WALL/CEILING.
- CONTRACTOR TO REPLACE ALL EXISTING PASSIVE GRAPHICS AND PROVIDE NEW IN THE LOCATIONS SHOWN ON THE CONSTRUCTION DRAWINGS. CONTRACTOR TO SUPPLY FOUR (4) ADDITIONAL PASSIVE GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO PROVIDE A BUILDING GRAPHIC SIMILAR TO PHOTO 3 ON DRAWING E2.11 AT THE SAME LOCATIONS AS ALL PASSIVE GRAPHICS. IT IS TO INCLUDE, BUT NOT LIMITED TO, THE EMERGENCY LIGHTING, FIRE EXTINGUISHERS LOCATIONS, AND ALL FIRE ALARM SYSTEM DEVICES. WSP TO PROVIDE CAD FILES TO CONTRACTOR TO UPDATE AND CONFIRM LOCATIONS. CONTRACTOR TO SUPPLY AN ADDITIONAL FOUR (4) BUILDING GRAPHICS TO DEPARTMENTAL REPRESENTATIVE.
- CONTRACTOR TO AVOID PLACING NEW DEVICES ON WALLS WITH SPECIALTY PAINTING. CONTRACTOR TO RELOCATE NEW DEVICE AS REQUIRED TO NEAREST CLEAR WALL SPACE. REFER TO DETAIL 3 ON DRAWING E1.11 FOR EXAMPLE OF WALL WITH SPECIALTY PAINTING.
- CONTRACTOR TO INSTALL INITIATING AND SIGNALING WIRING IN SEPARATE LOOPS FOR EACH BUILDING. REFER TO RISER DIAGRAM FOR REFERENCE.
- CONTRACTOR TO PROVIDE ADDITIONAL ACCESS HATCHES TO SUIT NEW FIRE ALARM SYSTEM INSTALLATION AS REQUIRED AND DETERMINE NEW LOCATIONS ON SITE. CONTRACTOR TO ALLOW ADDITION OF ACCESS HATCHES WITHIN BID PRICE.
- REFER TO TYPICAL FIRE ALARM ISOLATION INSTALLATION DIAGRAM ON DRAWING E5.02.
- CONTRACTOR IS TO COORDINATE WITH DEPARTMENTAL REPRESENTATIVE TO ENSURE PROPER DESCRIPTION FOR ALL MONITORED SPRINKLER DEVICES TO BE INCLUDED IN NEW FACP PROGRAM.
- PROVIDE CEILING MOUNTED LAMICOID FOR CEILING MOUNTED DEVICES (i.e. TAMPER SWITCHES, FLOW SWITCHES, ETC.)
- CONTRACTOR TO INCLUDE ALL COSTS FOR CONTROLS, START-UP, AND COMMISSIONING FROM CONTROLS MANUFACTURER AND MAINTENANCE CONTRACTOR.

CONSTRUCTION KEYNOTES:

- BILINGUAL "FIRE DO NOT ENTER" ILLUMINATED SIGN. ILLUMINATED SIGN TO BE STANPRO SLESS-SLSES-1-WM-WH-IB C/W CUSTOM LETTERING OR APPROVED EQUAL.
- THE SIGN LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDING 4. WHEN BUILDING 4 IS SENT INTO THE SIGN LOCATED IN BUILDING 3 SHALL ILLUMINATE.
- THE SIGN LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM IN BUILDINGS 1, 2, AND 3. WHEN BUILDINGS 1, 2, AND 3 ARE SENT INTO ALARM, THE SIGN LOCATED IN BUILDING 4 SHALL ILLUMINATE.
- THE DEVICE LOCATED IN BUILDING 3 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDINGS 1, 2, AND 3.
- THE DEVICE LOCATED IN BUILDING 4 SHALL BE TIED INTO THE FIRE ALARM SYSTEM FOR BUILDING 4.
- WEATHER-PROOF STROBE TO BE MOUNTED ON EXTERIOR WALL ABOVE EXISTING SIAMESE CONNECTION.
- NOT USED.
- PULL STATIONS SHALL BE MOUNTED ON DRYWALL PILLAR AS OPPOSED TO BRICK WHEN POSSIBLE. REFER TO DETAIL 4 ON DRAWING E1.11.
- CONTRACTOR TO PROVIDE AN ELECTRICAL SHUT OFF RELAY OPERATED BY THE FIRE ALARM SYSTEM FOR CUTTING ALL HEAT PRODUCING SOURCES OF FUEL AND ELECTRICAL POWER FOR THE COOKING EQUIPMENT. CONTRACTOR TO INCLUDE ALL COST ASSOCIATED TO THIS ABOVE IN THEIR BID.
- PROVIDE A HEAT DETECTOR IN ELEVATOR PIT.
- ELECTRICAL CONTRACTOR TO DISCONNECT AND RECONNECT EXISTING DOOR MAGNETIC HOLD OPEN DEVICES AT DOOR. CONTRACTOR TO SUPPLY AND INSTALL FIRE ALARM RELAYS TO THE DOOR INTO FIRE ALARM SYSTEM AS REQUIRED.
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 3 IS IN ALARM - DO NOT ENTER."
- LAMICOID STATING IN ENGLISH AND FRENCH "WHEN THIS STROBE IS ON, BUILDING 4 IS IN ALARM - DO NOT ENTER."
- SINGLE BOOSTER POWER SUPPLY SHOWN FOR BUILDING 3. CONTRACTOR TO DETERMINE IF ADDITIONAL BOOSTER POWER SUPPLIES REQUIRED FOR BUILDING 3 AND REMAINDER OF BUILDINGS. CONTRACTOR TO PROVIDE AND ALLOW FOR ADDITIONAL BOOSTER POWER SUPPLIES IN BID PRICE.
- 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH PWGSC. ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS ULCC-S561 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING P/ WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
- REMOTE LED INDICATOR IS TO BE PROVIDED FOR ALL NOT VISIBLE DUCT DETECTORS.
- CONTRACTOR TO PROVIDE FIRE EMERGENCY PROCEDURE SIGN AT DESIGNATED LOCATIONS. SIGN SHALL INCLUDE ALL ARTICLES NOTE "NATIONAL FIRE CODE SECTION 2.8.2.1.1.a" WRITTEN IN ENGLISH AND FRENCH. CONTRACTOR TO SUBMIT DRAFT COPY TO PUBLIC WC GRIERSON AND CONSULTANT FOR REVIEW PRIOR TO ORDERING SIGNS. CONTRACTOR TO PROVIDE FOUR (4) ADDITIONAL COPIES OF EMERGENCY PROCEDURE SIGNS TO BE INSTALLED AS DIRECTED BY DEPARTMENTAL REPRESENTATIVE.



BUILDING 4
AREA 1207 SQ.M
1 BUILDING 4 GROUND FLOOR CONSTRUCTION
SCALE 1:100
E4.12



CONSULTANT:
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PERMIT NUMBER: P07641
The Association of Professional Engineers and Geoscientists of Alberta

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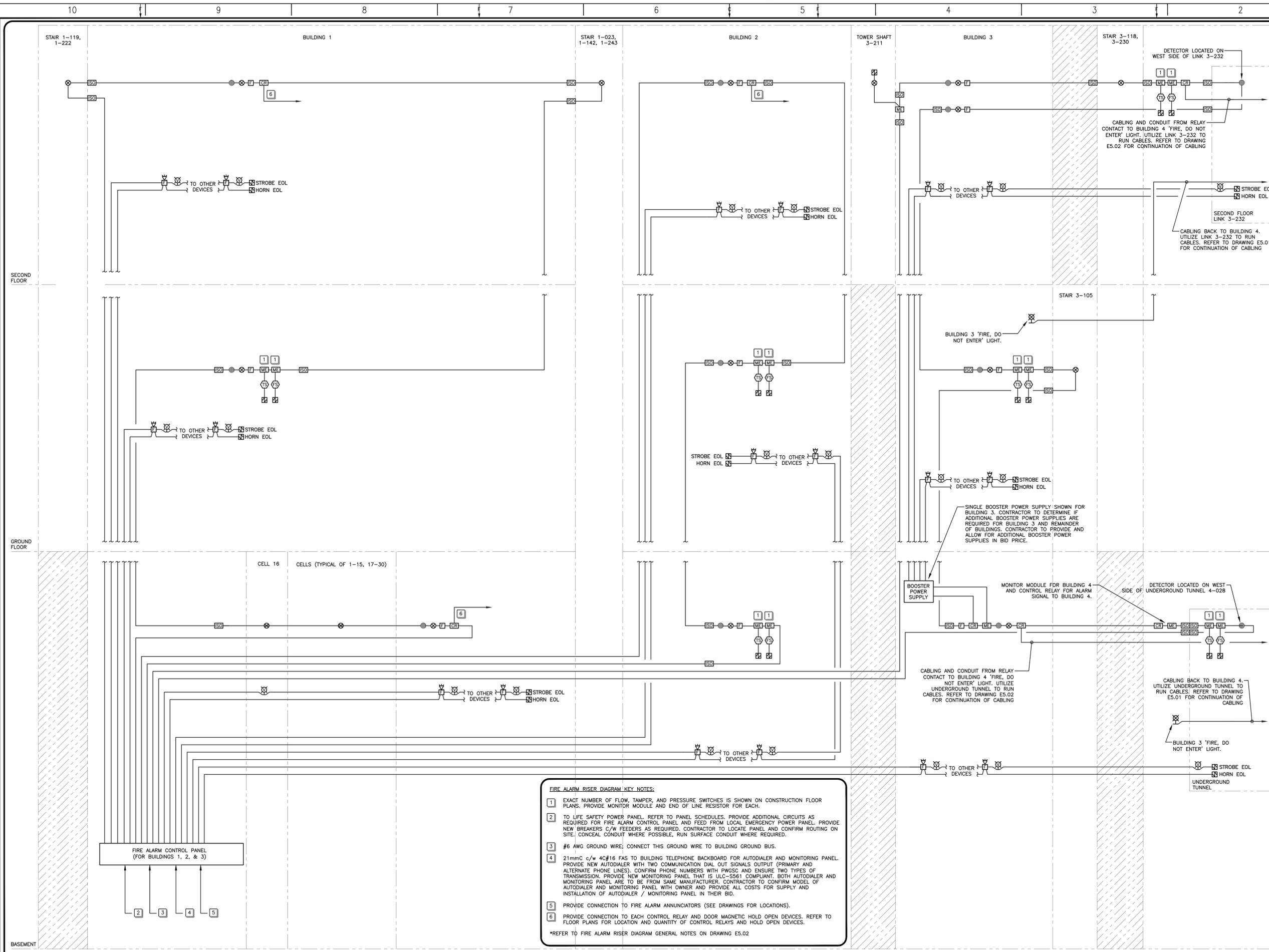
**GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE**

KEY PLAN:
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A	2018/09/26	ISSUED FOR TENDER

PROJECT NO:	171-04506-00	DATE:	2018/09/26
ORIGINAL SCALE:	AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.	
DESIGNED BY:	L. SHADE		
DRAWN BY:	L. SHADE		
CHECKED BY:	J. ESPINO		
DISCIPLINE:	ELECTRICAL		
TITLE:	BUILDING 4 - GROUND FLOOR FIRE ALARM CONSTRUCTION		

SHEET NUMBER:	E4.12	REV #	A
SHEET #:	24 OF 28		
ISSUE:	ISSUED FOR TENDER		
DATE OF:	2018/09/26		



- FIRE ALARM RISER DIAGRAM KEY NOTES:**
- EXACT NUMBER OF FLOW, TAMPER, AND PRESSURE SWITCHES IS SHOWN ON CONSTRUCTION FLOOR PLANS. PROVIDE MONITOR MODULE AND END OF LINE RESISTOR FOR EACH.
 - TO LIFE SAFETY POWER PANEL. REFER TO PANEL SCHEDULES. PROVIDE ADDITIONAL CIRCUITS AS REQUIRED FOR FIRE ALARM CONTROL PANEL AND FEED FROM LOCAL EMERGENCY POWER PANEL. PROVIDE NEW BREAKERS C/W FEEDERS AS REQUIRED. CONTRACTOR TO LOCATE PANEL AND CONFIRM ROUTING ON SITE. CONCEAL CONDUIT WHERE POSSIBLE, RUN SURFACE CONDUIT WHERE REQUIRED.
 - #6 AWG GROUND WIRE; CONNECT THIS GROUND WIRE TO BUILDING GROUND BUS.
 - 21mmC c/w 4C#16 FAS TO BUILDING TELEPHONE BACKBOARD FOR AUTODIALER AND MONITORING PANEL. PROVIDE NEW AUTODIALER WITH TWO COMMUNICATION DIAL OUT SIGNALS OUTPUT (PRIMARY AND ALTERNATE PHONE LINES). CONFIRM PHONE NUMBERS WITH FWSSC AND ENSURE TWO TYPES OF TRANSMISSION. PROVIDE NEW MONITORING PANEL THAT IS UL-C-581 COMPLIANT. BOTH AUTODIALER AND MONITORING PANEL ARE TO BE FROM SAME MANUFACTURER. CONTRACTOR TO CONFIRM MODEL OF AUTODIALER AND MONITORING PANEL WITH OWNER AND PROVIDE ALL COSTS FOR SUPPLY AND INSTALLATION OF AUTODIALER / MONITORING PANEL IN THEIR BID.
 - PROVIDE CONNECTION TO FIRE ALARM ANNUNCIATORS (SEE DRAWINGS FOR LOCATIONS).
 - PROVIDE CONNECTION TO EACH CONTROL RELAY AND DOOR MAGNETIC HOLD OPEN DEVICES. REFER TO FLOOR PLANS FOR LOCATION AND QUANTITY OF CONTROL RELAYS AND HOLD OPEN DEVICES.
- *REFER TO FIRE ALARM RISER DIAGRAM GENERAL NOTES ON DRAWING E5.02



CONSULTANT:

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CLIENT REF. #: CLIENT_REFERENCE_#

PROJECT:

GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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PROJECT NO: 171-04506-00	DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED	IF THIS BAR IS NOT 1" LONG, ADJUST YOUR PLOTTING SCALE.
DESIGNED BY: L. SHADE	
DRAWN BY: L. SHADE	
CHECKED BY: J. ESPINO	

DISCIPLINE: ELECTRICAL

TITLE: BUILDINGS 1, 2 & 3
FIRE ALARM RISER DIAGRAM

SHEET NUMBER: E5.01

SHEET # 26 OF 28

ISSUE: ISSUED FOR TENDER

DATE OF: 2018/09/26

REV # A

1 FIRE ALARM RISER BUILDINGS 1, 2, & 3
E5.01 SCALE: N.T.S.

CAUSE AND EFFECT MATRIX

EFFECT \ CAUSE	ACTUATE ALL FIRE ALARM SIGNALLING DEVICES IN BLDGS 1, 2, 3	ACTUATE ALL FIRE ALARM SIGNALLING DEVICES IN BLDG. 4	SHUTDOWN HVAC EQUIPMENT IN BLDGS 1, 2, 3	SHUTDOWN HVAC EQUIPMENT IN BLDG. 4	START-UP HVAC EQUIPMENT IN BLDGS 1, 2, 3	START-UP HVAC EQUIPMENT IN BLDG. 4	ILLUMINATE BILLINGUAL 'DO NOT ENTER' SIGNS LOCATED IN BLDG. 3 FOR ENTRANCE TO BLDG. 4	ILLUMINATE BILLINGUAL 'DO NOT ENTER' SIGNS LOCATED IN BLDG. 4 FOR ENTRANCE TO BLDG. 3	DISPLAY STATUS ON FACP LOCATED IN BLDG. 1	DISPLAY STATUS ON FACP LOCATED IN BLDG. 4	SEND SUPERVISORY SIGNAL TO FACP LOCATED IN BLDG. 1	SEND SUPERVISORY SIGNAL TO FACP LOCATED IN BLDG. 4
SYSTEM TROUBLE - BLDGS 1, 2, 3									X			
SYSTEM TROUBLE - BLDG.4										X		
HEAT DETECTOR ALARM - BLDGS 1, 2, 3	X		X					X	X			X
HEAT DETECTOR ALARM - BLDG. 4		X		X						X	X	
SMOKE DETECTOR ALARM - BLDGS 1, 2, 3	X		X				X	X	X			X
SMOKE DETECTOR ALARM - BLDG. 4		X		X			X			X	X	
PULL STATION ACTIVATION - BLDGS 1, 2, 3	X		X					X	X			X
PULL STATION ACTIVATION - BLDG. 4		X		X			X			X	X	
SPRINKLER ACTIVATION - ALL BLDGS	X	X	X	X			X	X	X	X		
FACP LOCATED IN BLDG 1 RETURNS TO SYSTEM NORMAL					X				X			
FACP LOCATED IN BLDG 4 RETURNS TO SYSTEM NORMAL						X				X		



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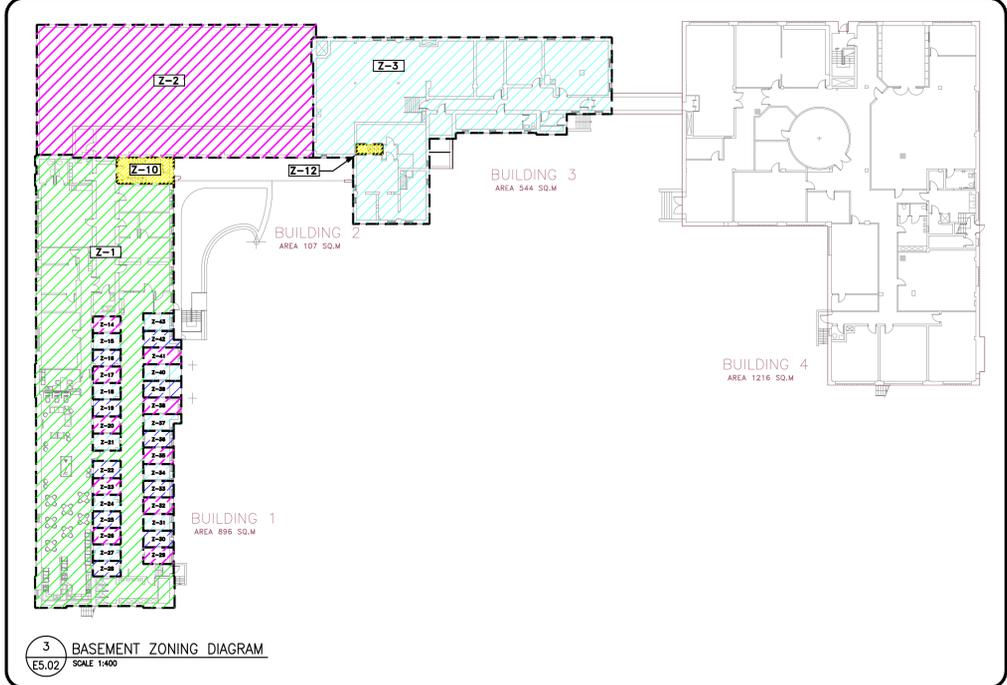
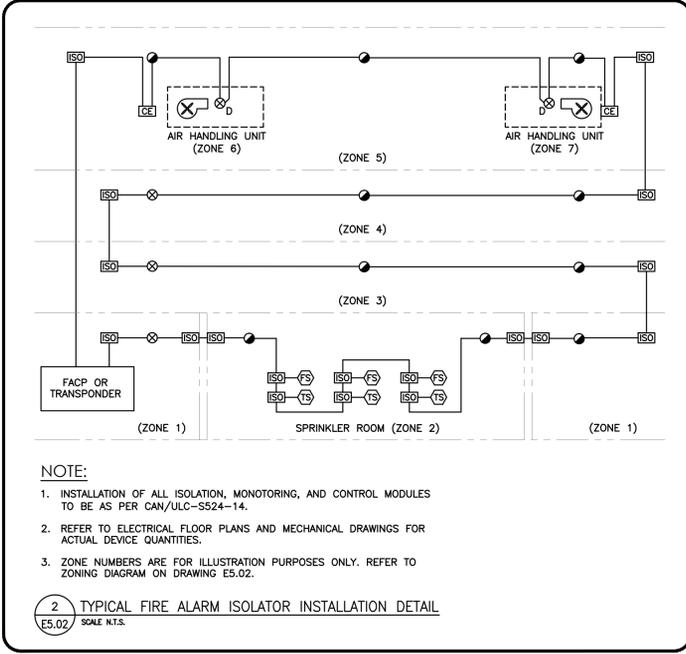
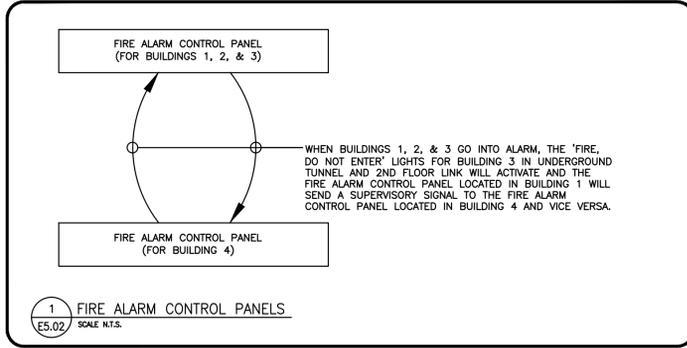
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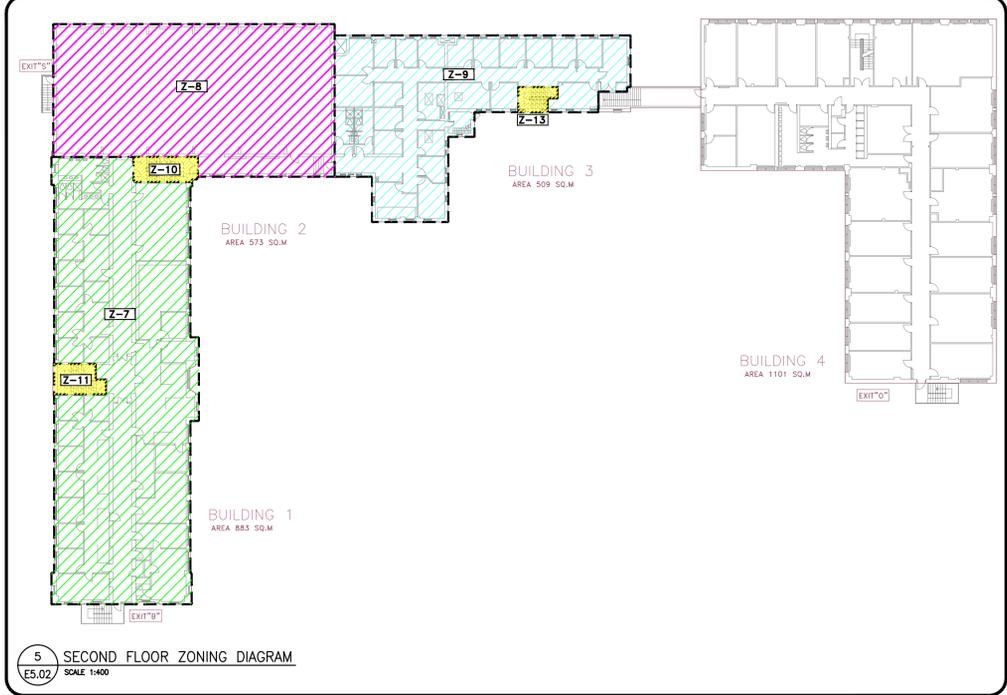
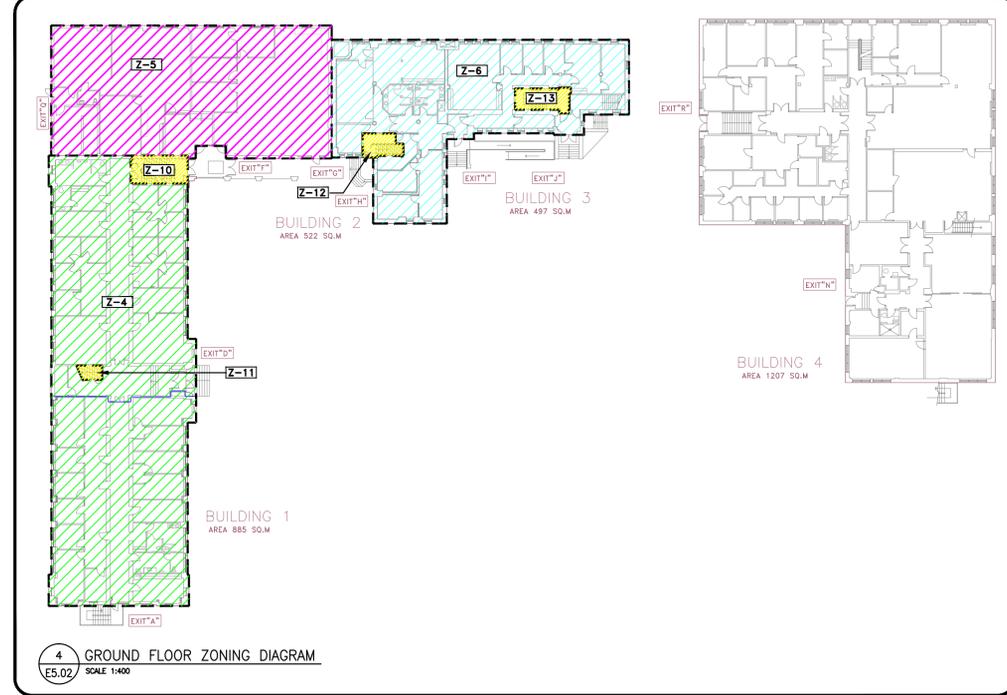
GRIERSON & STAN DANIELS CENTRE
FIRE ALARM UPGRADE

KEY PLAN:

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- FIRE ALARM RISER DIAGRAM GENERAL NOTES (FOR DRAWINGS E5.01 AND E5.02):
- FIRE ALARM RISER IS DIAGRAMMATIC AND FOR REFERENCE PURPOSES ONLY. REFER TO FLOOR PLANS FOR EXACT QUANTITY OF DEVICES ON EACH LEVEL. COORDINATE WITH FIRE ALARM MANUFACTURER FOR WIRING CONNECTION, ACCESSORIES, APPURTENANCES AND PROGRAMMING REQUIRED TO ENSURE THAT THE FIRE ALARM DEVICES AND THIS WHOLE NEW FIRE ALARM SYSTEM WILL FUNCTION PROPERLY UPON PROJECT COMPLETION.
 - REFER TO ELECTRICAL CONSTRUCTION DRAWINGS FOR EXACT LOCATION AND QUANTITY OF FIRE ALARM DEVICES.
 - FIRE ALARM ISOLATORS AND END OF LINE RESISTORS ARE SHOWN ON FLOOR PLANS FOR REFERENCE ONLY. FURNISH AND INSTALL FIRE ALARM ISOLATORS AS PER CAN/ULC-SS24 AT 2 HOUR FIRE RATED WALLS OR CEILINGS AND INSTALL ONE ISOLATOR ON BOTH SIDES OF WALL OR CEILING STAGGERED. INSTALL FIRE ALARM END OF LINE RESISTORS WHERE NEEDED.
 - PROVIDE CONTROL RELAYS AND CONTROL WIRES IN CONDUIT TO THE BMS SYSTEM TIED INTO THE FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM VENDOR AND CONTROLS CONTRACTOR FOR WIRING REQUIREMENTS.
 - INSTALL ALL ADDRESSABLE MODULES FOR SPRINKLER FLOW, TAMPER, AND PRESSURE SWITCHES IN ACCESSIBLE CEILING SPACE.
 - FIRE ALARM VERIFICATION PROCEDURES, TESTING REQUIREMENTS AND DOCUMENTATION SHALL BE IN ACCORDANCE WITH CAN-ULC/5537.
 - CONTRACTOR TO PROVIDE ADDITIONAL SIX (6) SPRINKLER FLOW, TAMPER, AND PRESSURE INPUT MODULES. UNUSED MODULES TO BE TURNED OVER TO OWNER AS ADDITIONAL SPARE PARTS.
 - PROVIDE AMPLIFIERS AS REQUIRED. ALLOW FOR 30% SPARE CAPACITY.
 - MAXIMUM OF 12 ISOLATORS PER INITIATING LOOP OR BASED ON MANUFACTURER RECOMMENDATIONS FOR MAXIMUM ISOLATORS PER LOOP.
 - PROVIDE FIRE ALARM BOOSTERS/NAC PANELS AS REQUIRED.
 - DASHED LINES DENOTE SEPARATE ZONES.



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PROJECT NO: 171-04506-00
DATE: 2018/09/26
ORIGINAL SCALE: AS NOTED
DESIGNED BY: L. SHADE
DRAWN BY: L. SHADE
CHECKED BY: J. ESPINO
DISCIPLINE: ELECTRICAL
TITLE: FIRE ALARM ZONING DIAGRAMS
SHEET NUMBER: E5.02
SHEET #: 27 OF 28
ISSUED FOR TENDER
DATE OF: 2018/09/26
REV: A

