

## **PART 1        GENERAL**

### **1.1            ALTERATION PROJECT PROCEDURES**

- .1        Materials: As specified in Product sections; match existing Products and work for patching and extending work.
- .2        Employ skilled and experienced installer to perform alteration work.
- .3        Close openings in exterior surfaces to protect existing work from weather and extremes of temperature and humidity.
- .4        Remove, cut and patch Work in a manner to minimize damage and to provide means of restoring Products and finishes to original condition.
- .5        Refinish existing visible surfaces to remain in renovated rooms and spaces, to renewed condition for each material, with a neat transition to adjacent finishes.
- .6        Where new Work abuts or aligns with existing provide a smooth and even transition.
- .7        Patch Work to match existing adjacent Work in texture and appearance.
- .8        When finished surfaces are cut so that a smooth transition with new Work is not possible, terminate exiting surface along a straight line at a natural line of division and submit recommendation to Departmental Representative for review.
- .9        Where a change of plane of 6 mm or more occurs, request instructions from Departmental Representative.
- .10       Patch or replace portions of existing surfaces which are damaged, lifted, discoloured, or showing other imperfections.
- .11       Finish surfaces as specified in individual Product sections.

### **1.2            SUBMITTALS FOR REVIEW**

- .1        Section 01 33 00 - Submittal Procedures.
- .2        Shop Drawings:
  - .1        Indicate demolition and removal sequence and location of salvageable items; location and construction of temporary work.
  - .2        Indicate temporary shoring details. Shoring drawings to be stamped by a Registered Professional Structural Engineer licensed at the Place of Work.

### **1.3            SUBMITTALS FOR CLOSEOUT**

- .1        Section 01 78 00 - Submittal Closeout.
- .2        Project Record Documents: Accurately record actual locations of capped utilities and subsurface obstructions.



## **1.4 REGULATORY REQUIREMENTS**

- .1 Conform to applicable code for demolition work, dust control, products requiring mechanical and electrical disconnection and re-connection.
- .2 Obtain required permits from authorities.
- .3 Do not close or obstruct egress width to any building or site exit.
- .4 Do not disable or disrupt building fire or life safety systems without three (3) days prior written notice to Department Representative.
- .5 Conform to procedures applicable when hazardous or contaminated materials are discovered.
- .6 There may be locations where existing walls or slabs may have reinforcement. Allow for X-ray scan of the suspected existing construction.

## **1.5 SCHEDULING**

- .1 Schedule work to coincide with new construction.
- .2 Cease operation immediately if structure appears to be danger and notify Departmental Representative. Do not resume operations until directed.
- .3 Hazardous Materials:
  - .1 The Department Representative has retained an independent inspection agency to review the site for hazardous materials.
  - .2 Refer to the specifications sections provided under this contract.

## **PART 2 PRODUCTS**

- .1 Not used.

## **PART 3 EXECUTION**

### **3.1 PREPARATION**

- .1 Provide, erect, and maintain temporary barriers and insulated partitions as required to protect occupants and maintain environmental conditions conducive to Work being performed.
- .2 Erect and maintain weatherproof closures for exterior openings.
- .3 Erect and maintain temporary partitions to prevent spread of dust, odours, and noise to permit continued occupancy.
- .4 Protect existing materials and assemblies which are not to be demolished.



- .5 Prevent movement of structure; provide bracing and shoring and temporary structural members required to support wall, floor and roof assemblies scheduled to remain.
- .6 Temporary structural installations to be removed when new structural members have been installed and reviewed by Departmental Representative.
- .7 Notify affected utility companies before starting work and comply with their requirements.
- .8 Mark location and termination of utilities.
- .9 Provide appropriate temporary signage including signage for exit or building egress.

### **3.2 DEMOLITION**

- .1 Disconnect remove, cap and identify designated utilities within demolition areas.
- .2 Demolish in an orderly and careful manner. Protect existing supporting structural members and non-loadbearing assemblies.
- .3 Demolition of Masonry units – Insert structural angle door lintel prior to demolition of exterior wall to accommodate new rough opening for double door.
- .4 Also refer to architectural drawings for brick masonry demolition requirements. Retain brick masonry for reuse.
- .5 Remove demolished materials from site except where specifically noted otherwise. Do not burn or bury materials on site. Retain existing brick veneer for reuse.
- .6 Remove materials as Work progresses. Upon completion of Work, leave areas in clean condition.
- .7 Remove temporary Work.

### **3.3 SALVAGED CONTACT DEPARTMENTAL REPRESENTATIVE FOR DIRECTION**

- .1 Store and protect salvaged items until re-installation at location designated by Departmental Representative.
- .2 Turn over salvaged items to applicable specification sections for re-installation.
- .3 Contractor must protect existing equipment in operation from dust/debris or other incidental damage resulting from construction activities, including newly commissioned units in operation and equipment/material on site but not yet installed.

**END OF SECTION**







**Part 1 General**

**1.1 SUMMARY**

- .1 This specification covers the disturbance, removal and disposal of asbestos-containing and asbestos-contaminated materials indicated on the drawings. Work will include the removal of all settled dust, over spray and debris materials.
- .2 Furnish all labour, materials, services, insurance and equipment, in accordance with requirements of Workplace Health & Safety, Alberta Environment and other regulatory agencies to complete the work of this section.
- .3 Work will be subject to frequent inspection and air monitoring by the Department Representative.
- .4 Refer to attached drawings for locations of asbestos materials to be impacted.
- .5 Site conditions to be confirmed by the Contractor and any discrepancies are to be reported to the Department Representative.

**1.2 SCOPE OF WORK**

- .1 Following Low Risk procedures, remove and dispose of all fasteners and associated materials mounted to asbestos-containing drywall, plaster, or mortar, including but not limited to those used for surface-mounted conduit, mounts for fire alarm pull stations, smoke and heat detectors, fire alarm bells, horns, switches, etc. Control measures to include: Designated work area (banner tape) and polyethylene drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .2 Following Low Risk procedures, install fasteners into asbestos-containing drywall, plaster, or mortar including but not limited to those used for surface-mounted conduit, mounts for fire alarm pull stations, smoke and heat detectors, fire alarm bells, horn, switches, etc. Control measures to include: Designated work area (banner tape) and polyethylene drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .3 Following Low Risk procedures, remove and dispose of ceiling tiles affixed with asbestos-containing mastic required for the installation or removal of smoke and heat detectors and associated conduit. Control measures to include: Designated work area (banner tape) and polyethylene drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .4 Following Low Risk procedures, remove and dispose of asbestos-containing mastic required for installation of conduit and modifications for the HVAC units. Control measures to include: Designated work area (banner tape) and polyethylene drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .5 Following Low Risk procedures, remove and dispose of asbestos-containing construction adhesive from concrete wall, required to thread conduit through the block wall cavity. Control measures to include: Designated work area (banner tape) and polyethylene drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.



- .6 Following Moderate Risk (glove-bag) procedures, remove and dispose of asbestos-containing mortar and associated materials to create penetrations less than one square foot required to thread conduit through the exterior wall, or to install or remove fire alarm fixtures. Control measures to include: Designated work area (banner tape), glove-bags, and poly drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .5 Following Moderate Risk (glove-bag) procedures, remove and dispose of asbestos-containing drywall and plaster and associated materials to create penetrations less than one square foot required to thread conduit through the wall or ceiling cavity, or to install or remove fire alarm fixtures. Control measures to include: Designated work area (banner tape), glove-bags, and poly drop sheets. PPE to include half-face respirators with P100 filters and full-body tyvek coveralls.
- .6 Following Moderate Risk procedures, remove and dispose of all asbestos-containing drywall taping compounds and associated materials, including gypsum board, metal bead, fasteners and associated asbestos-contaminated materials required for the installation or removal of fire alarm panels, to create penetrations greater than one square foot to thread conduit through the wall or ceiling cavity, or to install or remove fire alarm fixtures. Control measures to include: Full containment enclosure, with above ceiling seals, two stage decontamination facility and negative air. PPE to include full-face, PAPR with P100 and full-body tyvek coveralls.
- .7 Following High Risk procedures, remove and dispose of all asbestos-containing plaster and associated asbestos-contaminated materials required to create penetrations greater than one square foot to thread conduit through the wall or ceiling cavity, or to install or remove fire alarm fixtures. Control measures to include: Full containment enclosure, with above ceiling seals, two stage decontamination facility and negative air. PPE to include full-face, PAPR with P100 and full-body tyvek coveralls.

### **1.3 RELATED WORK**

- .1 Section 02 83 00 Lead Paint Removal

### **1.4 REGULATIONS, CODES AND STANDARDS**

- .1 The current issue of the following regulations and guidelines shall govern. Where conflict among these requirements or with these specifications exist, the more stringent requirements shall apply.
  - .1 Occupational Health and Safety Act, Regulation and Code.
  - .2 Guidelines for the Disposal of Asbestos Waste.
  - .3 Transportation of Dangerous Goods Regulations.
  - .4 Alberta Asbestos Abatement Manual.
- .2 The current issue of the following codes and standards shall govern. Where conflict among these requirements or with these specifications exist, the more stringent requirements shall apply.
  - .1 ANSI/ASME N510-1980 Testing of Nuclear Air-Cleaning Systems and/or NSF Standard Number 49.



- .2 CGSB 1-GP-205M Standard for: Sealer for Application to Asbestos-Fibre Releasing Materials.
- .3 CSA Standard Z94.4-M2003, Selection, Care, and Use of Respirators
- .4 CSA Standard S269.2-M1980, Scaffolding Construction

## **1.5 QUALITY ASSURANCE**

- .1 The removal and handling of asbestos-containing or contaminated materials shall be performed by persons experienced in the methods, procedures, and industry practices of asbestos abatement.
- .2 The Contractor is responsible to ensure that work proceeds to schedule, meeting all requirements of this section. The Contractor shall complete this work so that at no time shall airborne asbestos, waste or asbestos waste-water runoff contaminate areas adjacent to work areas.
- .3 The Department Representative is empowered by the Owner to inspect adherence to specified work procedures and materials and to inspect for final cleanliness and completion. Additional labour or materials expended by the Contractor to provide satisfactory performance to the level specified shall be at no additional cost.
- .4 The Department Representative is empowered by the Owner to order a shutdown of work when a leakage of asbestos-containing or contaminated materials has occurred or is likely to occur. These conditions include, but are not limited to, failure of negative pressure systems, inadequate wetting, failure of critical barriers or decontamination enclosure systems, water leaks, excessive airborne fibre levels in areas adjacent to the work area or in clean room or holding room areas and the contamination of clean room or holding room areas by asbestos-containing or asbestos-contaminated materials. Additional labour or materials to rectify these or other unsatisfactory conditions shall be at no cost to the Owner.
- .5 Inspection and air monitoring services performed as a result of the Contractor's failure to conform to specified procedures or level of cleanliness, as determined by the Department Representative at the time of a milestone inspection, may be charged to the Contractor at the Owner's discretion.
- .6 All work of this section involving electrical, mechanical, plumbing, glazing, and other trade work, where applicable, shall be performed by skilled tradesmen regularly engaged in the work in question and under the direct supervision of a currently qualified journeyman.
- .7 Provide on-site a project supervisor, who has authority to oversee all aspects of the work of this section including the estimation and negotiation of changes to the contract, submission requirements, scheduling, man power requirements, equipment requirements and production.
- .8 Provide on-site, for each shift, a shift supervisor who is outside of the containment, who has authority to oversee all aspects of the work of this section related to manpower requirements, equipment requirements and production.
- .9 Replacement of supervisory personnel cannot be undertaken without the written approval of the Department Representative.



## **1.6 SUBMITTALS**

- .1 Before commencing work Contractor shall:
  - .1 Submit proof satisfactory to the Department Representative that the site location, required permits and arrangements for transport and disposal of asbestos-containing or contaminated materials have been obtained. Ensure required manifest documentation regarding disposal is submitted in accordance with these specifications.
  - .2 Submit letter(s) of electrical and mechanical system lock-out as specified.
  - .3 Submit documentation verifying Workplace Health & Safety asbestos worker training certification. Submit to the Department Representative, documentation of respirator fit tests conducted for all personnel entering the removal site.
  - .4 Submit written "Asbestos Project Notification" to Workplace, Health & Safety 72 hours prior to the start of the work of this section. Provide verbal notification 24 hours prior to the start of the work of this section. Provide the Department Representative with a copy of the Notification. Submit site specific work procedures to the Department Representative.
  - .5 Submit to the Department Representative, manufacturer's information, including test results, material safety data sheets and product specifications, of all materials and equipment proposed for use on this project.
  - .6 Submit certification or other documentation, acceptable to the Department Representative, certifying all air movement and vacuum equipment, intended for use on this project have had a filter integrity test. Negative air units used for Moderate Risk and High Risk work must have the filter integrity test conducted on a per project basis and tested every month. Vacuums must be tested with the last 12 months.
  - .7 Prepare and submit work procedures and asbestos control plan.

## **1.7 SITE SUPERVISION**

- .1 During time of hazardous material handling (work at risk of dislodging asbestos-containing material) supervisory personnel shall co-ordinate work and take full responsibility for the health and safety of all personnel working within contaminated areas.
- .2 The Contractor shall employ at least one supervisory person within the enclosure and one outside at all times.
- .3 Submit, for all supervisory personnel, Workplace Health & Safety asbestos worker training certification and documentation substantiating supervisory function on at least two comparable projects in occupied buildings.

## **1.8 SCHEDULING OF WORK**

- .1 The Contractor shall prepare and submit the construction schedule for review by the Department Representative a minimum of five days prior to the start of work. The schedule shall include milestone inspections and all other critical events relating to the work of this section and the work



- of others. The construction schedule shall incorporate Substantial Performance dates, turnover dates respecting related work elsewhere and time constraints as outlined by the building Owner.
- .2 The work of this section shall be conducted in the most efficient manner, and may include phasing the work to meet the Owner's schedule.
  - .3 The work of this section must comply with the General Contract and Owner's requirements with regard to working hours, phasing, access restrictions and operational requirements.
  - .4 The Contractor shall allow sufficient time for fibre settling and final air monitoring (minimum of 8 hours) following removal.
  - .5 The Contractor shall ensure the Department Representatives approval of work area preparation and clean-up is obtained as specified.
  - .6 The Contractor shall allow sufficient time for inspection of site by the Department Representative following site preparations and prior to the execution of the work of this section.

## **1.9 DEFINITIONS**

- .1 Abatement: procedures to control fibre release from asbestos-containing materials. Includes encapsulation, repair and removal.
- .2 Removal: all herein specified procedures necessary to strip all asbestos-containing materials from the designated areas and to dispose of these materials at an acceptable site.
- .3 Encapsulation: all herein specified procedures necessary to coat all asbestos-containing materials with an encapsulant to control the possible release of asbestos fibres into the ambient air.
- .4 Enclosure: all herein specified procedures necessary to complete the enclosure of all asbestos-containing materials within airtight, impermeable barriers.
- .5 Repair: all herein specified procedures necessary to complete containment of all asbestos-containing material using materials impermeable to the release of asbestos fibre.
- .6 Authorised Visitor: Owner and/or his appointed representative, Department Representative and persons representing regulatory agencies.
- .7 Work Area: Areas where work at risk of increasing airborne fibre is to take place.
- .8 Negative Pressure: Air pressure within the work area resulting from air movement equipment established in the area to maintain a minimum pressure differential of 0.50 mm (0.02 inches) of water column relative to adjacent unsealed areas.
- .9 Airlock: System for permitting ingress and egress without permitting air movement between contaminated area and uncontaminated area, typically consisting of two curtain doorways at least 1800 mm (6 feet) apart.
- .10 Curtain Doorway: Device to allow ingress and egress from one room to another while permitting minimal air movement between rooms, typically constructed by placing two overlapping sheets of plastic over existing or temporarily framed doorway, securing each along top of doorway, securing



- vertical edge of one sheet along one vertical side of doorway, and securing vertical edge of other sheet along opposite vertical side of doorway. Free edges of polyethylene shall be reinforced with duct tape and bottom edge shall be weighted to ensure automatic closing.
- .11 Filter Integrity Test: leak testing using liquid polyalphaolefin (PAO) generated into an aerosol used for challenging HEPA filter assemblies.
  - .12 Critical Barrier: A barrier constructed of a 38 mm by 89 mm timber framework, covered on both sides with 6 mil plastic sheeting, taped along all free edges and interfaces to prevent the movement of airborne asbestos fibre from the contaminated work area to adjacent uncontaminated areas. Exposed surfaces in public service areas shall be sheathed with plywood. Plywood to be finished with white, eggshell latex paint.
  - .13 Contaminated: defines the state of materials, surfaces or areas which by virtue of physical contact with asbestos-containing materials or with airborne asbestos fibre shall require cleaning, removal and/or disposal, as specified in this section.
  - .14 Air Monitoring: the process of measuring the fibre content of a specific volume of air in a stated period of time.
  - .15 Surfactant: a chemical wetting agent added to water to improve penetration, thus reducing the quantity of water required for a given operation or area.
  - .16 Amended Water: a water to which a surfactant has been added.
  - .17 Decontamination Enclosure: a series of connected rooms, with curtained doorways between any two adjacent rooms, for the decontamination of workers or of materials and equipment. A decontamination enclosure system always contains at least one airlock.
  - .18 Worker Decontamination Area: a decontamination area for workers, typically consisting of a clean area, bucket of clean tepid water, soap and towels.
  - .19 Equipment Decontamination Area: a decontamination area for materials and equipment, typically consisting of a designated area of the work area, a wash area, a holding area, and an uncontaminated area.
  - .20 Clean Area: an uncontaminated area or room which is part of the worker decontaminated area, with provisions for storage of workers' street clothes and protective equipment.
  - .21 Equipment Room: a contaminated area or room which is part of the worker decontamination area, with provisions for storage of contaminated clothing and equipment.
  - .22 Wash Area: an area between the work area and the holding area in the equipment decontamination area. The wash area may comprise an airlock.
  - .23 Holding Area: a chamber between the wash area and an uncontaminated area in the equipment decontamination area. The holding area may comprise an airlock.
  - .24 Fixed Object: a unit of equipment or furniture in the work area which cannot be removed from the work area.



- .25 Moveable Object: a unit of equipment or furniture in the work area which can be removed from the work area.
- .26 HEPA Filter: a throwaway extended-pleated-medium dry-type filter with (1) a rigid casing enclosing the full depth of the pleats, (2) a minimum removal efficiency of 99.97% for thermally generated monodisperse DOP smoke particles with a diameter of 0.3 micrometers and (3) a maximum pressure drop of 1.0 in w.g. when clean and operating at its rated airflow capacity.
- .27 Encapsulant (Sealant): a liquid material which can be applied to asbestos-containing material and which controls the possible release of asbestos fibres from the material either by creating a membrane over the surface (bridging encapsulant) or by penetrating into the material and binding its components together (penetrating encapsulant).
- .28 Wet Cleaning: the process of eliminating asbestos contamination from building surfaces and objects by using cloths, mops, or other cleaning tools which have been dampened with water, and by afterwards disposing of these cleaning tools as asbestos-contaminated waste.
- .29 Crated: solid self-supporting structure built over equipment or materials of sufficient strength to protect same from damage or contamination for the duration of the work of this section. A 38 mm x 89 mm (2"x 4") timber frame covered with plastic sheeting and hoarded with 10 mm (3/8") plywood shall be standard of acceptance.
- .30 Milestone Inspection: inspection of the work area by the Department Representative at a defined point in the abatement procedure.
- .31 Immediate Vicinity: a four (4) foot area surrounding an asbestos application or either side of a line application or such an area as defined by the Department Representative.
- .32 Occupational Exposure Limit (OEL): the airborne fibre level in fibres per cubic centimetre of air (f/cc) to which workers may be repeatedly exposed day after day without adverse effect as specified by Workplace Health & Safety.
- .33 Maximum Use Concentration: the airborne fibre level in fibres per cubic centimetre of air (f/cc) which limits respiratory use in asbestos work environments as outlined in the "Alberta Asbestos Abatement Manual".
- .34 Investigative Criteria: the airborne fibre level in fibres per cubic centimetre of air (f/cc) which corresponds with one half of the Occupational Exposure Limit.

#### **1.10 PERSONAL PROTECTION**

- .1 For Low Risk or Moderate Risk Glove Bag work, half-face piece, negative pressure, dual-cartridge, P100 filter respirators shall be used by all workers.
- .2 For Moderate Risk or High Risk work, Full-Face piece, Powered Air Purifying Respirators with P100 filters shall be used by all workers.
- .3 Respirators shall be personally issued and approved by the National Institute of Occupational Health and Safety (NIOSH). A review of respiratory protection requirements may be necessary, as dictated by air monitoring results obtained by the Department Representative.



- .4 Provide workers, including other sub-trades, with full-body disposable coveralls. Once coveralls are worn in work area, they shall be treated as asbestos contaminated waste and disposed of accordingly. Provide other body protection, including CSA approved safety footwear, required under applicable safety regulations.
- .5 Provide two complete sets of protective clothing and respirators must be present at all times outside the entrance to the work area for use by Owner and/or his appointed representative, Department Representative and persons representing regulatory agencies who have authority over the project.
- .6 Workers shall be clean-shaven to ensure an adequate respirator face piece seal. Unshaven workers shall not be allowed in the work area.
- .7 Workers shall be fully protected with respirators and protective clothing at all times when the possibility of disturbance of asbestos exists, and when handling bags of asbestos waste.

#### **1.11 BUILDING PROTECTION**

- .1 Provide lockable doors sufficient to ensure work area security in the Clean Room and in the Holding Area of Decontamination Enclosure Systems. Ensure building security at all other points of entry to the building including windows and doors demounted to accommodate the installation and exhaust of air movement equipment used through the work of this section.
- .2 Ensure building security, prior to leaving the facilities, by contacting appropriate security agencies.
- .3 The Contractor shall be responsible to make good all building systems damaged through the work of this section.

#### **1.12 AIR MONITORING**

- .1 Air monitoring shall be performed by the Department Representative in accordance with NIOSH 7400.
- .2 The Contractor shall assist the Department Representative in the collection of air samples including the provision of workers to wear sampling pumps for up to a full work shift period and the provision of adequate, uninterrupted power for low amperage vacuum/pressure type pumps.
- .3 Allow sufficient time for fibre settling and final air monitoring (minimum 8 hours) following each phase of removal.
- .4 Airborne fibre levels found, in excess of “investigative criteria”, in areas adjacent to the work area or in clean room or holding room areas, shall initiate an investigation by the Contractor and the Department Representative into the source of excess airborne fibre levels.
- .5 Where airborne fibre levels in the work area exceed the Maximum Use Concentration for the respiratory protective equipment observed in use, the Department Representative shall take measures outlined in Quality Assurance.
- .6 Air monitoring within the work area to establish acceptable clearance and tear down conditions shall be conducted following Milestone Inspection B (Visual Clearance Inspection), approval of work area clean-up procedures and the application of a lock-down encapsulant to all surfaces within



the work area. Acceptable air clearance criteria have been established by Workplace Health & Safety at less than 0.01 f/cc using aggressive sampling methods.

### **1.13 INSPECTION**

- .1 The Department Representative has been retained by the Owner to periodically inspect site conditions and work procedures inside and outside of the work area.
- .2 The Department Representative has been retained by the Owner to perform the following milestone inspections:
  - .1 Milestone Inspection A - Pre-contamination inspection of work area preparation and set-up prior to disturbance and removal of asbestos-containing or asbestos-contaminated materials.
  - .2 Milestone Inspection B - Visual clearance inspection of work area following clean-up work procedures but prior to final tear-down procedures.
  - .3 Milestone Inspection C - Air clearance inspection and air monitoring of work area following Milestone Inspection B and the application of a slow drying sealer in the work area but prior to final tear-down procedures.
  - .4 Milestone Inspection D - Dismantling inspection following final tear-down procedures.

## **Part 2 Products and Facilities**

### **2.1 MATERIALS**

- .1 Deliver all materials and disposable equipment in the original packages, containers, or bundles bearing the name of the manufacturer and the brand name. Material that becomes contaminated with asbestos shall be disposed of in accordance with the applicable regulations.
- .2 Plastic sheet: of 0.25 mm (10 mil) and 0.15 mm (6 mil) thick polyethylene, unless otherwise specified, sized to minimise the frequency of joints.
- .3 Reinforced polyethylene: polyethylene or polyolefin materials, coated on each side, with a unit weight equivalent to or exceeding 107 g/sq. m (4.6oz/sq. yd) and 12 mil thick.
- .4 Duct Tape: Suitable for sealing polyethylene to surfaces encountered and to itself under both wet and dry conditions including use of amended water.
- .5 Wetting agent: 50% polyoxyethylene ester and 50% polyoxyethylene ether or other product approved by the Department Representative mixed with water in concentration to provide total penetration and wetting of asbestos fibre.
- .6 Amended water: Water with non-ionic water surfactant added for purpose of reducing surface tension to allow thorough wetting of asbestos fibre.
- .7 Asbestos waste receptors: 0.25 mm minimum thickness labelled polyethylene. Container must be acceptable to disposal site selected and provincial Ministry of Environment.



- .8 Disposable coveralls: Standard of acceptance - Full body coveralls with attached hood, manufactured by Dupont Tyvek, Kimberley Clarke or approved equal.
- .9 Warning labels and signs: delineating entry and protective equipment requirements and providing warning of the potential health effects of exposure to airborne asbestos fibre.
- .10 Encapsulant: a lock down encapsulant used to seal surfaces post removal meeting the requirements of CAN/CGSB 1.205-94. Standard of acceptance is Foster Chil-Lock CP240.
- .11 Plywood sheeting: good one side 10 mm (3/8") plywood.
- .12 Glove Bag: a clear, prefabricated, purpose-made, co-extruded poly-vinyl-chloride or polyethylene bag with integral gloves of suitable material. Continuous use bags shall be equipped with reversible double-pull, double-throw zippers with protective flaps to facilitate installation and progressive movement along pipe. Collars should be well defined to facilitate sealing the bag around the pipe. Bags with bottom seam or heat seam construction may be rejected at the discretion of the Department Representative.
- .13 Mastic Remover: Blue Bear, BEAN-e-doo mastic remover, or equivalent Franmar Chemical.
- .14 Degreaser: Blue Bear Cleaner and Degreaser, or equivalent, Franmar Chemical.

## **2.2 TOOLS AND EQUIPMENT**

- .1 Spray equipment for application of amended water or slow drying sealer: Standard of Acceptance- Grayco Hydraspray Airless spray unit.
- .2 HEPA vacuum equipment: appropriate vacuum equipment equipped with High Efficiency Particulate Absolute air filters capable of capturing and retaining 99.97% of all fibrous material 0.3 microns or larger.
- .3 Removal tools: suitable tools for asbestos removal including pliable nylon brushes for the removal of base and finish application.
- .4 Air Movement Equipment: low velocity, high volume centrifugal fan units enclosed in a sealed cabinet incorporating HEPA filter assemblies in their design and manufacture and conforming to specified testing and certification requirements. No air movement equipment shall discharge asbestos fibres outside the work area.
- .5 Temporary Lighting: Grounded halogen light fixtures.
- .6 Temporary Power: 4#8 TECK Feeder Cable and 40 A three (3) pole breaker where required.
- .7 Ground fault electrical panel: temporary service panel NBLP type 100 amp, 120/208 volt, 3 phase wire equipped exclusively with ground fault interrupter circuit.

## **Part 3 Execution**

### **3.1 PREPARATION OF WORK AREA**

- .1 In Low Risk and Moderate Risk Glove Bag work areas:



- .1 Isolate the work area from adjacent building areas, using barricades, hazard warning tape or other means as appropriate.
  - .2 Turn-off all HVAC (supply, return, exhaust) serving the work area and seal with polyethylene and tape.
  - .3 Provide a worker decontamination area at the entrance to the work area consisting of a bucket of clean tepid water, soap and towels.
- .2 In Moderate Risk and High Risk work areas:
- .1 Establish critical barriers at all points of entry to the work area.
  - .2 Provide a layer of reinforced polyethylene on the floor of the containment covered by a second layer of at least 6 mil polyethylene sheeting. Lay the floor linings in continuous sheets extending 300 mm (12 inches) up the walls and seal in place along all free edges. Bond floor linings with two-sided adhesive tape to prevent lifting.
  - .3 Line finished walls and critical barriers with 0.15 mm (6 mil) plastic sheet and seal with duct tape. Overlap floor linings with wall linings and seal in place along all free edges.
  - .4 Ensure that the plastic linings provide a continuous barrier and that a seal is maintained around penetrating objects, tears and elsewhere as required by the Owner.
  - .5 Remove perimeter ceiling tiles outside of the work area perimeter and install above ceiling critical barriers.
  - .6 Crate over and protect from damage all fixed objects in the removal area.
  - .7 Using HEPA filtered negative air cabinets, establish and maintain 0.02 inches negative pressure. One air change every 15 minutes shall be required. Ensure negative pressure requirements are maintained relative to pressures maintained in existing mechanical systems. Exhaust ducting from all air movement equipment installed in the work area shall extend outside of the building to areas meeting the approval of the Department Representative. Air movement equipment shall operate continuously from the time of initial asbestos disturbance until approval of clean-up procedures by the Department Representative or as directed by the Department Representative.
  - .8 Remove windows, using qualified trades, to allow exhaust of air movement equipment. Install plywood panels to maintain building security.
- .3 General Preparation Requirements:
- .1 Low risk personnel protection procedures shall apply during work area preparation if risk of dislodging asbestos exists.
  - .2 De-energize building electrical systems in the work area. Establish a lockout or tag-out procedure, as required by the Department Representative, for de-energization and re-energization of such systems and provide the Department Representative with specified submittal requirements. Identify live electrical lines remaining in the work area. Electrical trades to follow low risk work procedures.



- .3 Isolate building mechanical systems. Shut off all exhaust, supply and return fan units serving work area and implement required lock-out procedures. Install plastic seals reinforced with tape over all duct openings.
- .4 Discharge, drain and cap fire suppression systems where approved by the Owner and authorities having jurisdiction. Where sprinkler systems cannot be drained, cage all sprinkler heads to protect from inadvertent damage. Obtain and follow Owner's instructions with regard to foam, carbon dioxide, halogen agent or dry chemical extinguishing systems.
- .5 Provide and install temporary lighting to provide one lamp for every 20 square meters of work area.
- .6 Ensure that all holes or openings in existing wall, ceiling and floor structures are adequately sealed.
- .7 Remove ceiling, floor and wall mounted objects and other moveable objects which interfere with asbestos abatement. Clean and store movable objects in areas designated by the Owner or others and protect from re-contamination.
- .8 Maintain emergency and fire exits from the work areas, or establish alternative exits satisfactory to fire officials.
- .9 Where boilers or hot water tanks or other gas fired appliances must remain in operation, provide a ducted source of combustion air to each unit. Ensure that the exhaust is effectively sealed in order to prevent back drafting.
- .10 Seal all elevator and other shafts to prevent air leakage from or into these spaces.

### **3.2 DECONTAMINATION ENCLOSURES**

- .1 Three-Stage Worker Decontamination Unit
  - .1 Worker Decontamination Enclosures shall be constructed in locations approved by the Owner or the Department Representative.
  - .2 Locate switch for temporary lighting inside the clean room.
  - .3 Locate work area water supply shutoff inside the clean room.
  - .4 Build equipment and access room between shower room and contiguous with the work area, with two curtain doorways, one to shower room and to work area.
  - .5 Build shower room between clean room and equipment and access room, with two curtain doorways, one to clean room and one to equipment and access room. Shower rooms shall be walk through type, ensure entry and exit through actual showers by opposing doors, such that access to clean room from shower room must be through actual showers. Contractor shall provide hot and cold water supply in each work area and must provide a minimum of two shower heads, self-activating pump for disposal of waste water and leak proof connections to water supply.



- .6 Build clean room between shower room and clean areas outside of enclosures, with one curtain doorway leading to shower room and second lockable door to outside of enclosures. Provide lockers or hangers for workers' street clothes and personal belongings. Provide storage for clean protective clothing and respiratory equipment. Install mirror to permit workers to fit respiratory equipment properly. Provide one clean towel per worker per decontamination for all workers on site.
- .2 Waste Transfer Enclosure
  - .1 Build container cleaning room between staging area and holding room with two doorways, one to staging area and one to holding room. Room shall be built of sufficient size to allow proper washing of equipment and drums and/or double bagging of asbestos waste. Wash water shall be treated as asbestos contaminated waste.
  - .2 Build holding room between washroom and un-contaminated area, with two curtain doorways, one to washroom and one to un-contaminated area, and a lockable door to outside of enclosures. Holding room shall be of sufficient size to accommodate largest item of equipment used and all waste containers.
- .3 General Requirements for Decontamination Enclosures
  - .1 Construction shall be of quality and design to assure against leakage of asbestos fibres and/or water to areas outside scope of work.
  - .2 Build curtain doorways designed so when workers or drums and equipment move through doorway, one of two barriers comprising doorways always remains closed.
  - .3 Provide lockable doors at entrances to clean room and holding room of the decontamination enclosure systems.
  - .4 Enclosures shall be maintained in clean and tidy condition.
  - .5 Visually inspect enclosures regularly and at the beginning of each working period. Repair damaged barriers and remedy defects immediately upon discovery.

### **3.3 ASBESTOS DISTURBANCE AND REMOVAL**

- .1 Wetting and removal of asbestos materials shall not proceed until Milestone Inspection A (pre-contamination inspection) is undertaken by the Department Representative.
- .2 Fastener Removal from Drywall/Plaster/Exterior Mortar (Low Risk)
  - .1 Mist drywall, plaster, or mortar with water to reduce fibre levels.
  - .2 Place the nozzle of the HEPA vacuum immediately below the fastener to be removed.
  - .3 Using a screwdriver or other appropriate hand tool, remove the fastener from the drywall, plaster, or mortar, and place directly into disposal bags.
  - .4 Remove all debris materials in the work area and dispose as asbestos-contaminated waste.



- .3 Application of Fasteners to Drywall/Plaster/Exterior Mortar (Low Risk)
  - .1 Apply a bead of silicone to the location of the fastener.
  - .2 Place the nozzle of the HEPA vacuum immediately below the fastener to be applied.
  - .3 Using a screwdriver or other appropriate hand tool, apply the fastener into the drywall, plaster, or mortar.
  - .4 Remove all debris materials in the work area and dispose as asbestos-contaminated waste.
- .4 Ceiling Tile Mastic/Construction Adhesive (Low Risk)
  - .1 Remove ceiling tiles and place directly into disposal bags.
  - .2 Using a handheld scraper and mastic remover (if required), remove the mastic from the concrete surface, and place into disposal bags.
  - .3 Remove all debris materials in the work area and dispose as asbestos-contaminated waste.
- .5 Exterior Mastic on HVAC Units (Low Risk)
  - .1 Using a handheld scraper and mastic remover (if required), remove the mastic from the surface, and place into disposal bags.
  - .2 Remove all debris materials in the work area and dispose as asbestos-contaminated waste.
- .6 Drywall/Plaster/Exterior Mortar Penetration <1ft<sup>2</sup> (Glove Bag Method)
  - .1 Place removal tools in bag (tool pouch) and seal bag to wall or ceiling using tape. Cut entry sleeves and insert HEPA vacuum attachments and spray wands into the bag.
  - .2 Place hands in arm entries, and thoroughly wet plaster and spray applied plaster materials to reduce fibre levels.
  - .3 Using a power tool affixed with a HEPA filter and a core blade, cut through drywall/plaster at the penetration point. Carefully remove drywall/plaster section and place into disposal bags.
  - .4 Remove all debris materials in the work area and dispose as asbestos-contaminated waste.
  - .5 Place removal tools in bag (tool pouch) and seal bag to pipe using tape to seal bag collars to taped areas on the pipe insulation. Cut entry sleeves and insert HEPA vacuum attachments and spray wands into the bag.
  - .6 Wash down exposed portion of wall or ceiling and the top section of bag and thoroughly saturate waste materials in the bottom section of the bag. Clean all surfaces in the work area by HEPA vacuuming and wet wiping.
  - .7 Notify Department Representative of Visual Inspection B.



- .8 Apply sealer encapsulant to the wall or ceiling cavity and cut points.
- .7 Drywall Removal >1ft<sup>2</sup> (Moderate Risk Removal)
  - .1 Mist drywall to reduce fibre levels.
  - .2 Remove drywall panels and place directly into disposal bags. Remove all debris materials in the work area and dispose as asbestos-contaminated waste.
- .8 Plaster and Spray-applied Textured Materials >1ft<sup>2</sup> (High Risk Removal)
  - .1 Thoroughly wet spray-applied materials to saturation using amended water.
  - .2 Cut and remove ceiling system in sized sections as directed by the Department Representative. Remove all applicable portions, including all finish and base coat materials, expanded metal lathe, gypsum board, furring, metal channel, hangers, wires and clips.
  - .3 Remove, using specified tools all finish coat and base coat materials to the underlying substrate. Provide a continual mist of amended water, using approved spray equipment, to reduce airborne fibre levels.

### **3.4 CLEAN-UP**

- .1 Place asbestos waste and associated debris in sealed asbestos waste receptors. Inner bag shall be cleaned of gross contamination and placed in clean 0.25 mm suitably labelled plastic bag or drum in washroom area of the decontamination enclosure system.
- .2 Wet clean or HEPA vacuum, as appropriate, all surfaces including but not limited to ceiling suspension systems, wooded ceiling joists, mechanical ducting and vents, domestic piping, electrical conduit and wiring and all horizontal and vertical surfaces within the work area.
- .3 Prior to the Department Representatives visual inspection supervisory personnel must perform a visual inspection to ensure the work has been performed as specified.
- .4 Notify Department Representative at suitable stage of final clean-up of requirement for Milestone Inspection B (Visual Clearance Inspection) of work area. Following inspection and acceptance by the Department Representative apply a coat of slow drying sealer to all surfaces in work site including plastic sheeting.
- .5 All HEPA filtered negative air pressure systems, air filtration, and decontamination enclosure systems shall remain in service at this time.
- .6 Allow a minimum of 8 hours for fibre settling after Moderate Risk or High Risk work with no disturbance of work site before air clearance monitoring. Notify Department Representative of requirement for Milestone Inspection C (Air Clearance Inspection).

### **3.5 TEAR-DOWN**

- .1 Proceed with final tear-down operations when airborne fibre levels in the work area do not exceed acceptable air clearance levels.



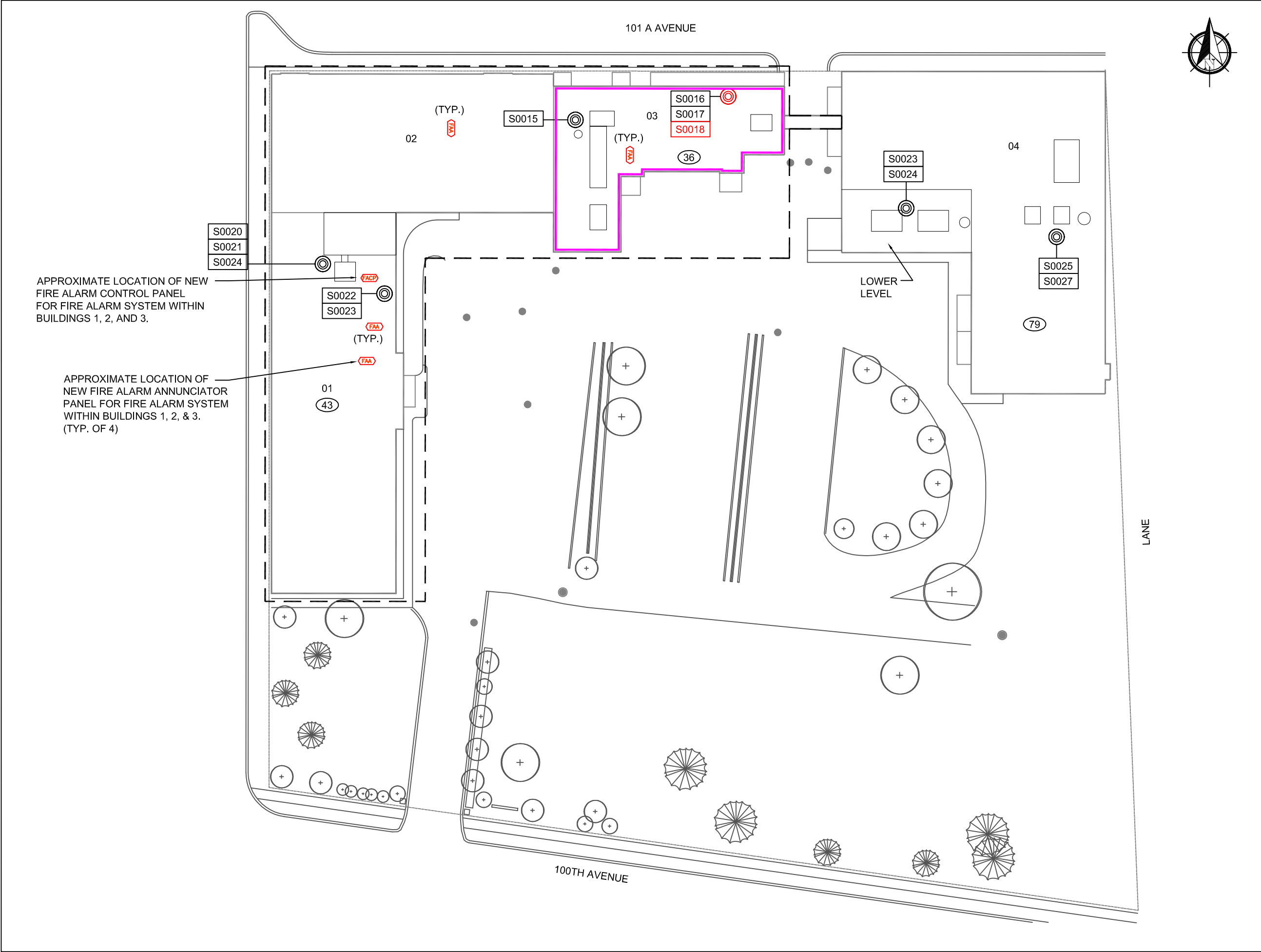
- .2 Wet clean or HEPA vacuum entire work area including floor, wall and curtain doorway surfaces to a high standard of cleanliness.
- .3 Tear-down critical barriers, plastic linings, curtain doorways and air-locks and dispose of as contaminated waste. Remove and dispose all asbestos-contaminated materials.
- .4 Dispose of all cloths, mops, sponges, rags, nylon brushes, brooms and any bristled tools as asbestos waste.
- .5 Wet clean and bag all boots, tools before removal from site.
- .6 Clean and seal wood planks and ladders prior to removal from site.
- .7 Final clean-up and dismantling procedures shall be undertaken by workers suitably protected with half face respirators equipped with HEPA filters and disposable coveralls.
- .8 Notify Department Representative at suitable stage of final tear-down requirement for 'Milestone Inspection D' (Final Tear-Down Inspection) of work area.

### **3.6 DISPOSAL**

- .1 As work progresses, and to prevent exceeding available storage capacity on site, remove sealed and labelled asbestos waste and dispose of in an authorised disposal area in accordance with the requirements of the disposal authority.
- .2 Comply with Federal, Provincial and Municipal authorities regarding the transport and disposal of asbestos waste materials.
- .3 Dumpsters, lockable bins or covered vans only shall be used for the disposal of asbestos. Bins or dumpsters shall be firmly and securely covered with tarpaulins and provided with hazardous waste identification placards at all times and prior to transportation.
- .4 Ensure each shipment of containers to landfill is accompanied by Contractor's representative who shall supervise dumping of containers, supply equipment operators with appropriate personal protective equipment and ensure guidelines and regulations are followed. Each load shall require completion and signing of shipping documents.
- .5 Ensure landfill operator is fully aware of hazardous material being disposed of and equipment operators have been fully briefed in management of asbestos containers after delivery to the landfill.

**END OF SECTION**





- LEGEND:
- (X) LOCATION NUMBER
  - ⊙ ASBESTOS BULK SAMPLE LOCATION
  - ⊙ POSITIVE ASBESTOS BULK SAMPLE LOCATION
  - FAA FIRE ALARM ANNUNCIATOR
  - FAPG FIRE ALARM PASSIVE GRAPHIC
  - POSITIVE ASBESTOS-CONTAINING MORTAR

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

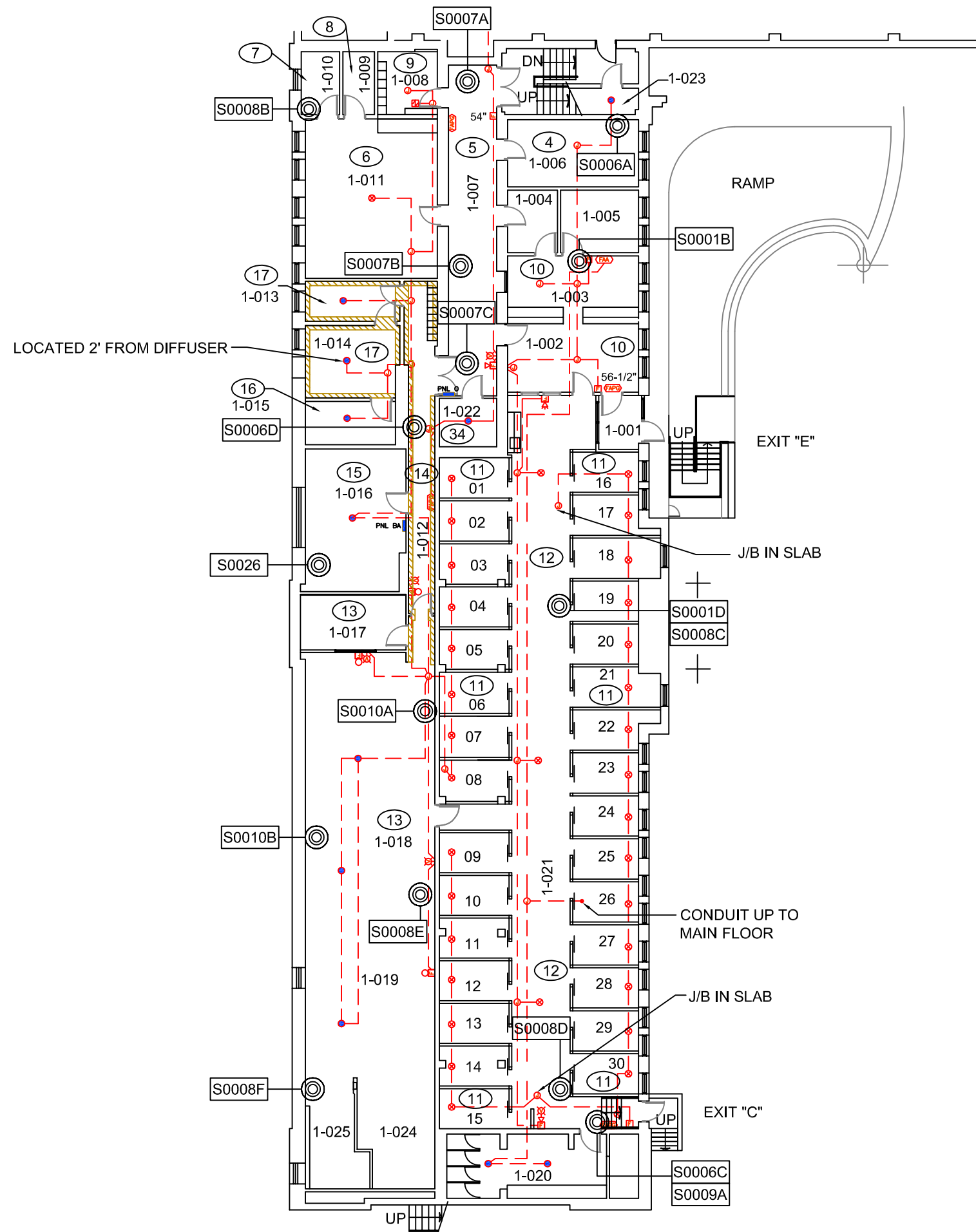
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

















SECTION 02 83 00 ASBESTOS REMOVAL  
EXTERIOR  
CONSTRUCTION & DEMOLITION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM     | DRAWING:<br><br>1 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |





LEGEND:

- |   |  |
|---|--|
|  | LOCATION NUMBER                        |
|  | ASBESTOS BULK SAMPLE LOCATION          |
|  | ASBESTOS-CONTAINING<br>TEXTURE PLASTER |
|  | MANUAL FIRE ALARM PULL STATION         |
|  | SMOKE DETECTOR                         |
|  | HEAT DETECTOR - FIXED TEMPERATURE      |
|  | FIRE ALARM BELL                        |
|  | FIRE ALARM BELL WITH VISUAL ALARM      |
|  | FIRE ALARM HORN                        |
|  | FIRE ALARM HORN WITH VISUAL ALARM      |
|  | VISUAL ALARM - WALL MOUNTED            |
|  | VISUAL ALARM - CEILING MOUNTED         |
|  | END OF LINE RESISTOR                   |
|  | FIRE ALARM ANNUNCIATOR                 |
|  | FIRE ALARM PASSIVE GRAPHIC             |
|  | JUNCTION BOX                           |

## NOTES:

1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

## LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 1  
BASEMENT DEMOLITION

DATE:

2018/09/13

|            |
|------------|
| PROJECT #: |
|------------|

212257

DRAWN BY:

VM

CHECKED BY:

SM

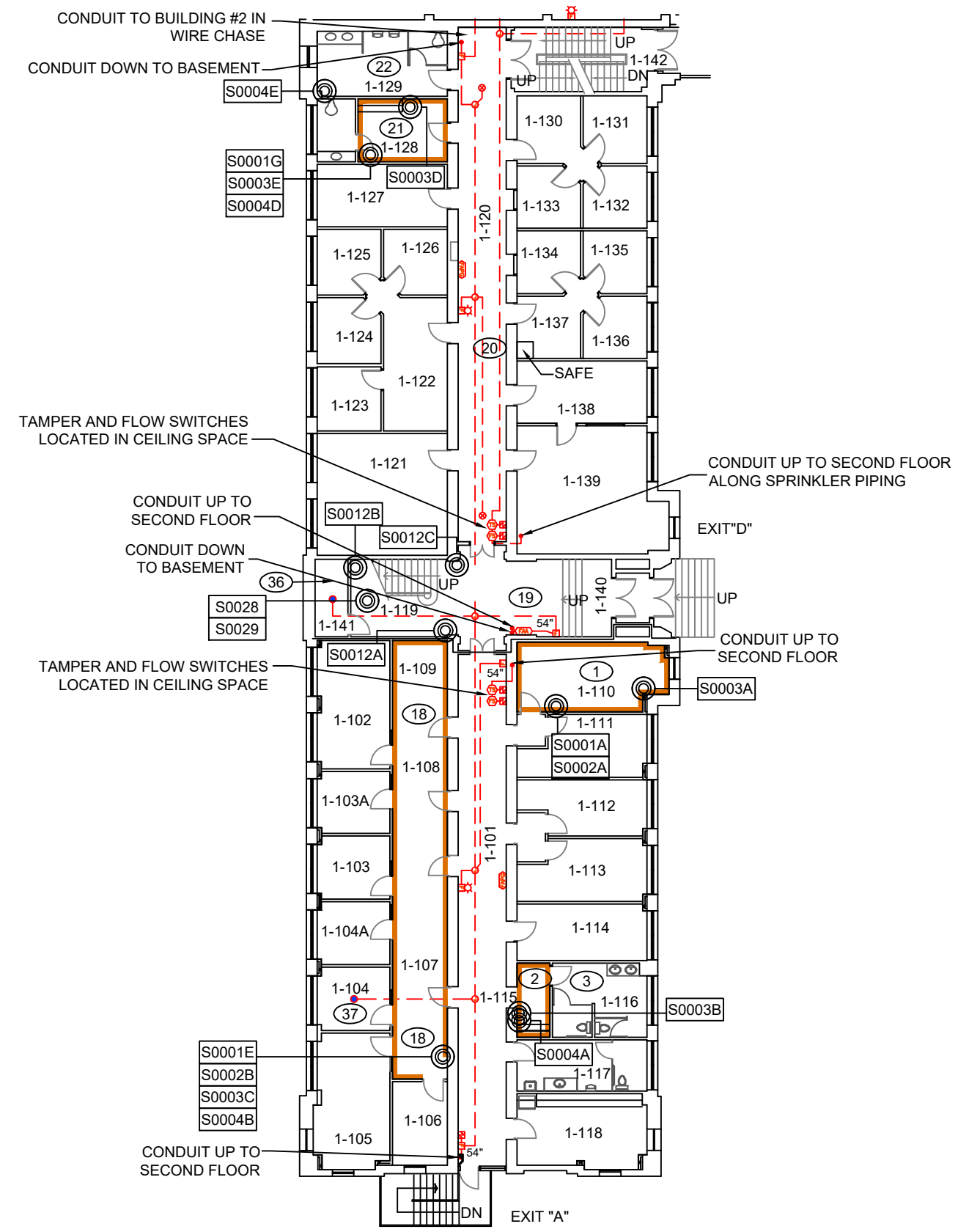
SCALE:

NTS

ROOM LEGEND:

- |       |                      |
|-------|----------------------|
| 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              |





ROOM LEGEND

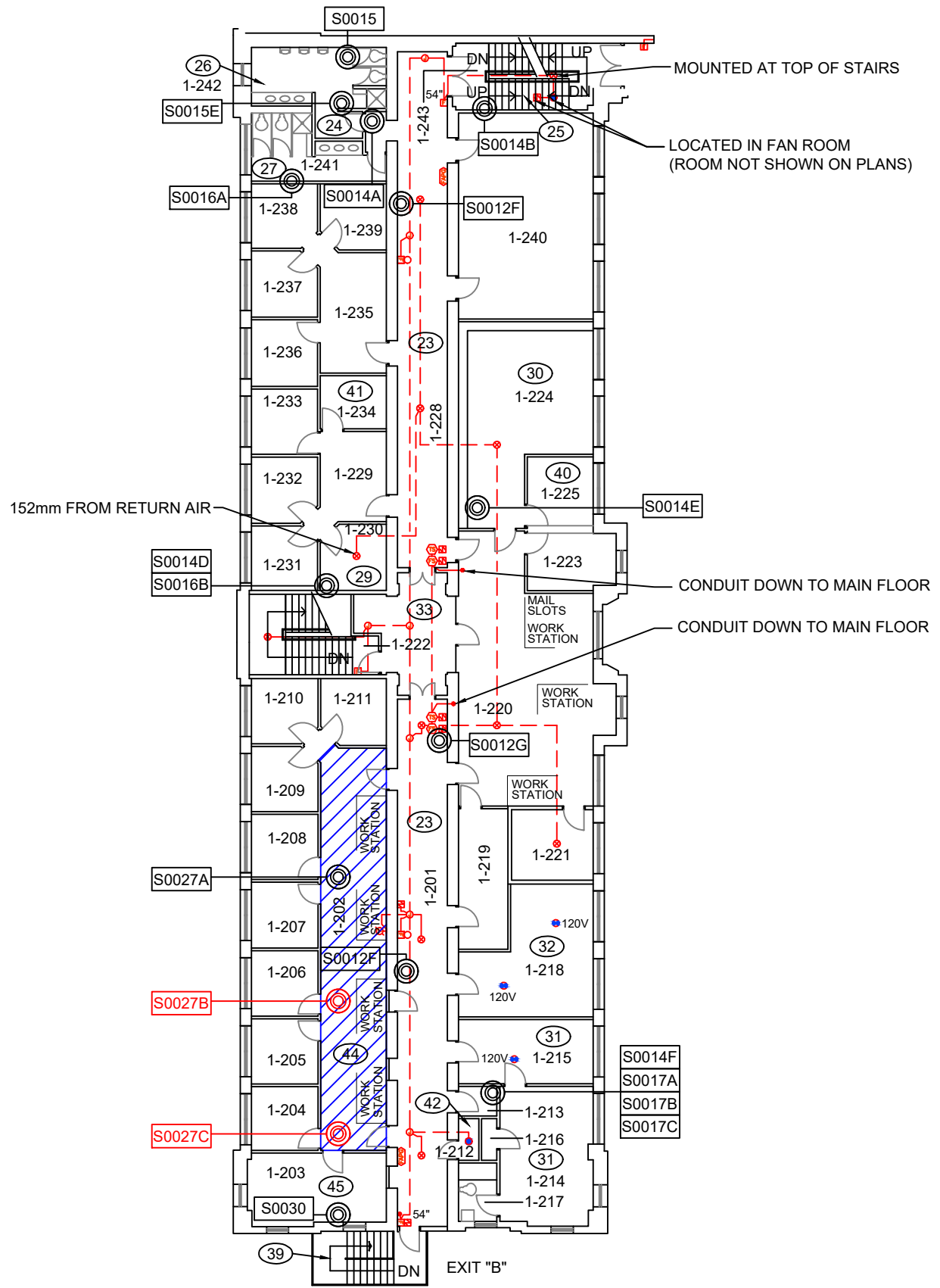
- 1-101 CORRIDOR
- 1-102 OFFICE
- 1-103 OFFICE
- 1-104 OFFICE
- 1-105 OFFICE
- 1-106 STORAGE
- 1-107 FILING
- 1-108 WAITING
- 1-109 SECRETARY
- 1-110 BOARDROOM
- 1-111 OFFICE
- 1-112 OFFICE
- 1-113 OFFICE
- 1-114 OFFICE
- 1-115 ENTRY
- 1-116 WOMEN
- 1-117 MEN
- 1-118 LUNCHROOM
- 1-119 HALL
- 1-120 CORRIDOR
- 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

- LEGEND:
- (X) LOCATION NUMBER
  - (C) ASBESTOS BULK SAMPLE LOCATION
  - ASBESTOS-CONTAINING DRYWALL JOINT COMPOUND
  - MANUAL FIRE ALARM PULL STATION
  - SMOKE DETECTOR
  - HEAT DETECTOR - FIXED TEMPERATURE
  - FIRE ALARM BELL WITH VISUAL ALARM
  - END OF LINE RESISTOR
  - TAMPER SWITCH
  - FLOW SWITCH
  - FIRE ALARM PASSIVE GRAPHIC
  - FIRE ALARM ANNUNCIATOR
  - JUNCTION BOX

- NOTES:
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  - BASE PLAN PROVIDED BY CLIENT.

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|--|-------------------------|
| CLIENT:<br>CORRECTIONAL SERVICE CANADA   |                         |
| LOCATION:<br>GRIERSON INSTITUTION<br>9530 - 101 AVENUE NW<br>EDMONTON, ALBERTA       |                         |
| TITLE:<br>SECTION 02 83 00 ASBESTOS REMOVAL<br>BUILDING 1<br>GROUND FLOOR DEMOLITION |                         |
| DATE:<br>2018/09/13  | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM  | DRAWING:<br><br>3 OF 25 |
| CHECKED BY:<br>SM  |                         |
| SCALE:<br>NTS  |                         |





ROOM LEGEND

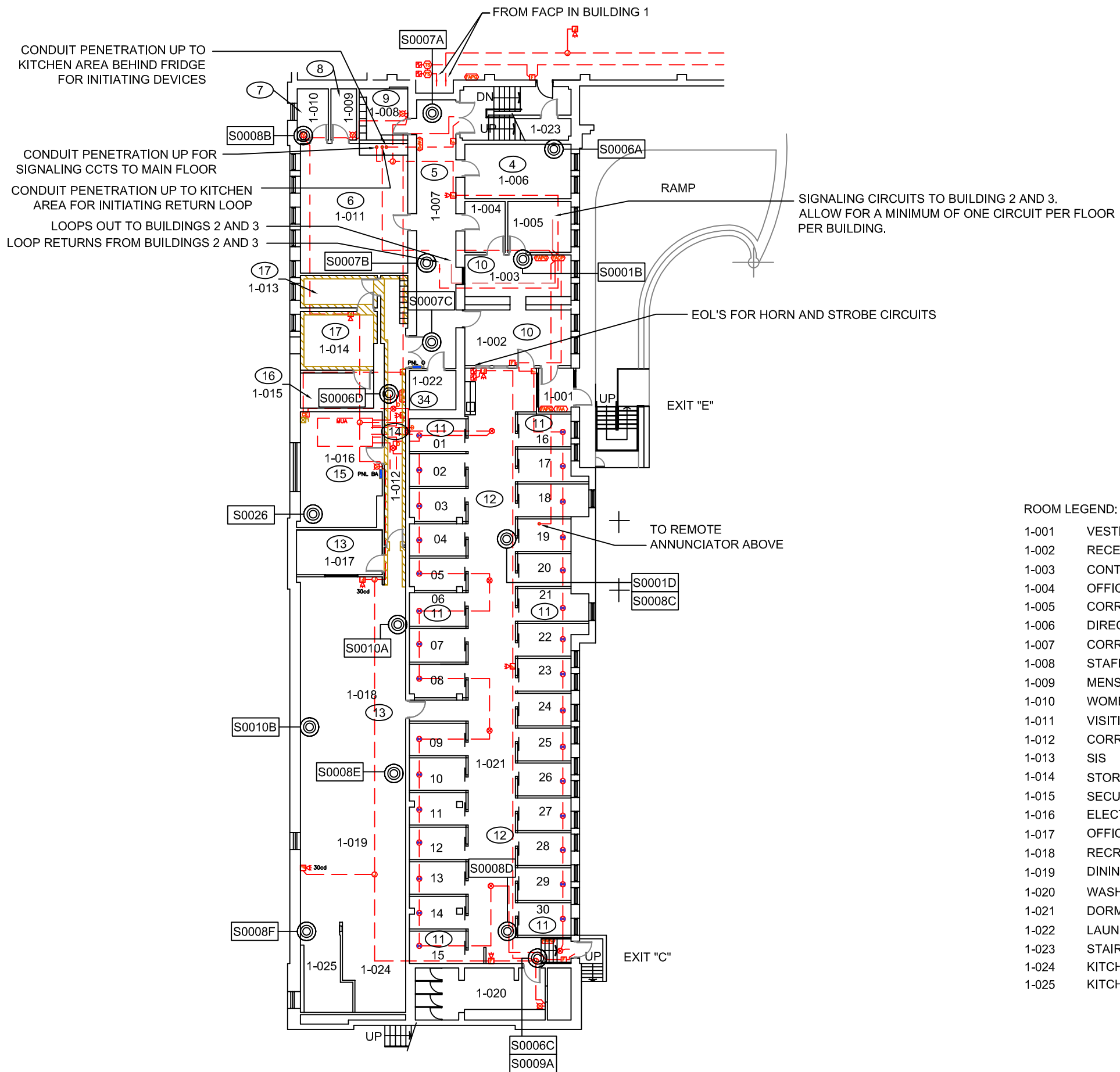
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| 1-201 | CORRIDOR          |
| 1-202 | GENERAL AREA      |
| 1-203 | AREA SUPERVISOR   |
| 1-204 | PAROLE OFFICE     |
| 1-205 | PAROLE OFFICE     |
| 1-206 | PAROLE OFFICE     |
| 1-207 | PAROLE OFFICE     |
| 1-208 | PAROLE OFFICE     |
| 1-209 | 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          |

|         |  |
|---------|--|
| LEGEND: |  |
| (X)     | LOCATION NUMBER                              |
| ⊙       | ASBESTOS BULK SAMPLE LOCATION                |
| ⊙       | POSITIVE ASBESTOS BULK SAMPLE LOCATION       |
| ▨       | POSITIVE ASBESTOS-CONTAINING PLASTER CEILING |
| ⌂       | MANUAL FIRE ALARM PULL STATION               |
| ⊗       | SMOKE DETECTOR                               |
| ●       | HEAT DETECTOR - FIXED TEMPERATURE            |
| ⌂       | FIRE ALARM BELL                              |
| ⌂       | FIRE ALARM BELL WITH VISUAL ALARM            |
| ⌂       | VISUAL ALARM - WALL MOUNTED                  |
| ⌂       | END OF LINE RESISTOR                         |
| FAA     | FIRE ALARM ANNUNCIATOR                       |
| FAPG    | FIRE ALARM PASSIVE GRAPHIC                   |
| ⌂       | JUNCTION BOX                                 |
| ⌂       | FLOW SWITCH                                  |

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|--|-------------------------|
| CLIENT:<br>CORRECTIONAL SERVICE CANADA   |                         |
| LOCATION:<br>GRIERSON INSTITUTION<br>9530 - 101 AVENUE NW<br>EDMONTON, ALBERTA       |                         |
| TITLE:<br>SECTION 02 83 00 ASBESTOS REMOVAL<br>BUILDING 1<br>SECOND FLOOR DEMOLITION |                         |
| DATE:<br>2018/09/13  | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM  | DRAWING:<br><br>4 OF 25 |
| CHECKED BY:<br>SM  |                         |
| SCALE:<br>NTS  |                         |





- LEGEND:
- (X) LOCATION NUMBER
  - ASBESTOS BULK SAMPLE LOCATION
  - ASBESTOS-CONTAINING TEXTURE PLASTER
  - MANUAL FIRE ALARM PULL STATION
  - SMOKE DETECTOR
  - SMOKE DETECTOR C/W LOCAL ALARM
  - HEAT DETECTOR - FIXED TEMPERATURE
  - FIRE ALARM BELL
  - FIRE ALARM BELL WITH VISUAL ALARM
  - FIRE ALARM HORN
  - VISUAL ALARM - WALL MOUNTED
  - VISUAL ALARM - CEILING MOUNTED
  - END OF LINE RESISTOR
  - FIRE ALARM PASSIVE GRAPHIC
  - FIRE ALARM CONTROL PANEL
  - FIRE ALARM ANNUNCIATOR
  - JUNCTION BOX

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CLIENT:  
CORRECTIONAL SERVICE CANADA

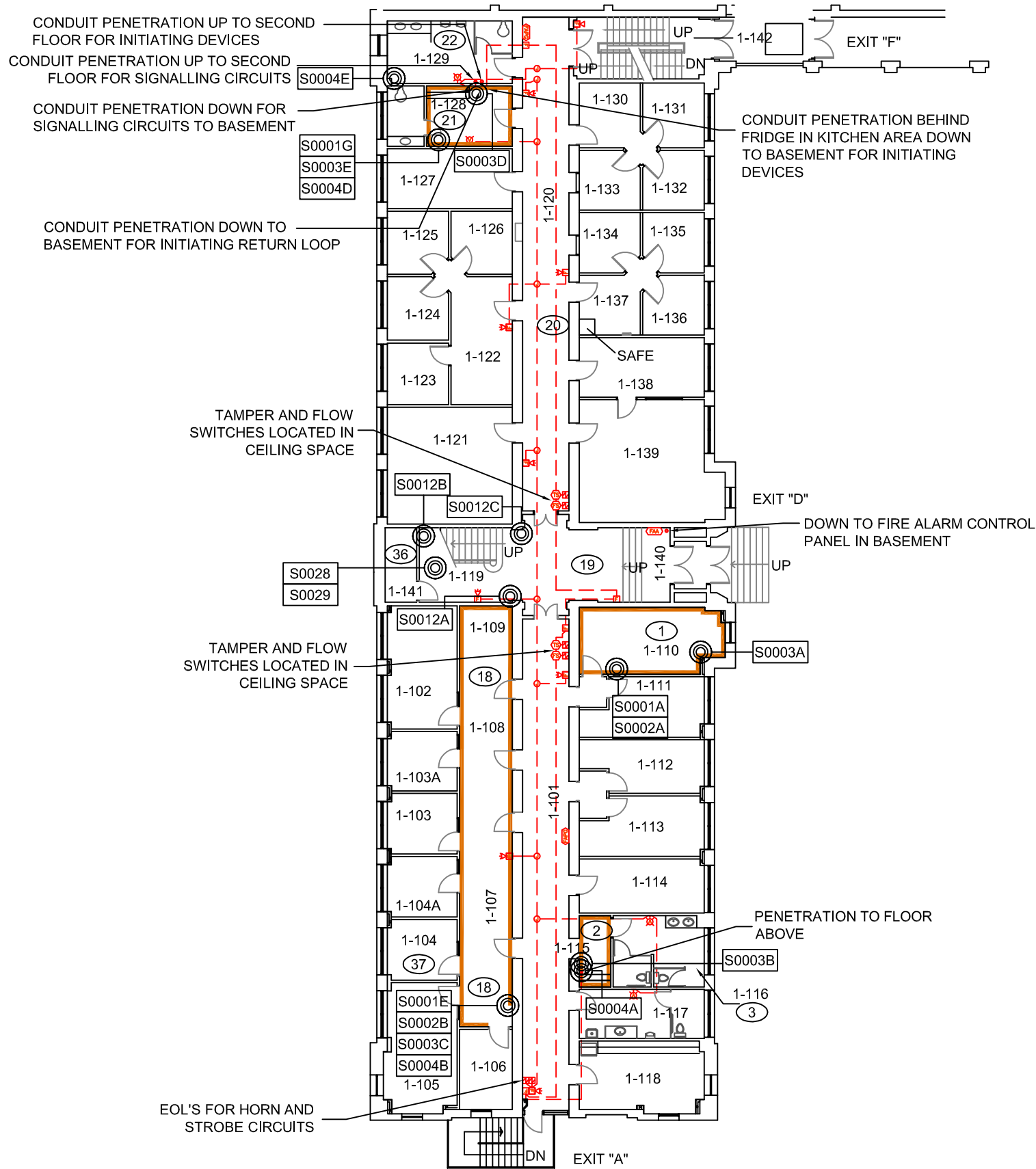
LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 1  
BASEMENT CONSTRUCTION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM     | DRAWING:<br><br>5 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |

- ROOM LEGEND:
- 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





ROOM LEGEND

|       |                     |
|-------|---------------------|
| 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              |
| 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       |
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| 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            |

|              |  |
|--------------|--|
| LEGEND:      |  |
| (X)          | LOCATION NUMBER                            |
| (B)          | ASBESTOS BULK SAMPLE LOCATION              |
| (Orange box) | ASBESTOS-CONTAINING DRYWALL JOINT COMPOUND |
| (F)          | MANUAL FIRE ALARM PULL STATION             |
| (B)          | FIRE ALARM BELL                            |
| (H)          | FIRE ALARM BELL WITH VISUAL ALARM          |
| (H)          | FIRE ALARM HORN                            |
| (H)          | FIRE ALARM HORN WITH VISUAL ALARM          |
| (H)          | VISUAL ALARM - WALL MOUNTED                |
| (H)          | VISUAL ALARM - CEILING MOUNTED             |
| (R)          | END OF LINE RESISTOR                       |
| (T)          | TAMPER SWITCH                              |
| (F)          | FLOW SWITCH                                |
| (FAPG)       | FIRE ALARM PASSIVE GRAPHIC                 |
| (FAM)        | FIRE ALARM ANNUNCIATOR                     |
| (J)          | JUNCTION BOX                               |

- NOTES:
1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  3. BASE PLAN PROVIDED BY CLIENT.

|  |                         |
|--|-------------------------|
| CLIENT:<br>CORRECTIONAL SERVICE CANADA   |                         |
| LOCATION:<br>GRIERSON INSTITUTION<br>9530 - 101 AVENUE NW<br>EDMONTON, ALBERTA         |                         |
| TITLE:<br>SECTION 02 83 00 ASBESTOS REMOVAL<br>BUILDING 1<br>GROUND FLOOR CONSTRUCTION |                         |
| DATE:<br>2018/09/13  | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM  | DRAWING:<br><br>6 OF 25 |
| CHECKED BY:<br>SM  |                         |
| SCALE:<br>NTS  |                         |









- LEGEND:
- (X) LOCATION NUMBER
  - ⊙ ASBESTOS BULK SAMPLE LOCATION
  - ⌘ MANUAL FIRE ALARM PULL STATION
  - 🔔 FIRE ALARM BELL
  - ⊗ SMOKE DETECTOR
  - HEAT DETECTOR - FIXED TEMPERATURE TEMPERATURE
  - ⊞ END OF LINE RESISTOR
  - Ⓢ FLOW SWITCH
  - Ⓣ TAMPER SWITCH
  - Ⓢ FAPD FIRE ALARM PASSIVE GRAPHIC
  - Ⓢ FAA FIRE ALARM ANNUNCIATOR
  - Ⓢ JUNCTION BOX

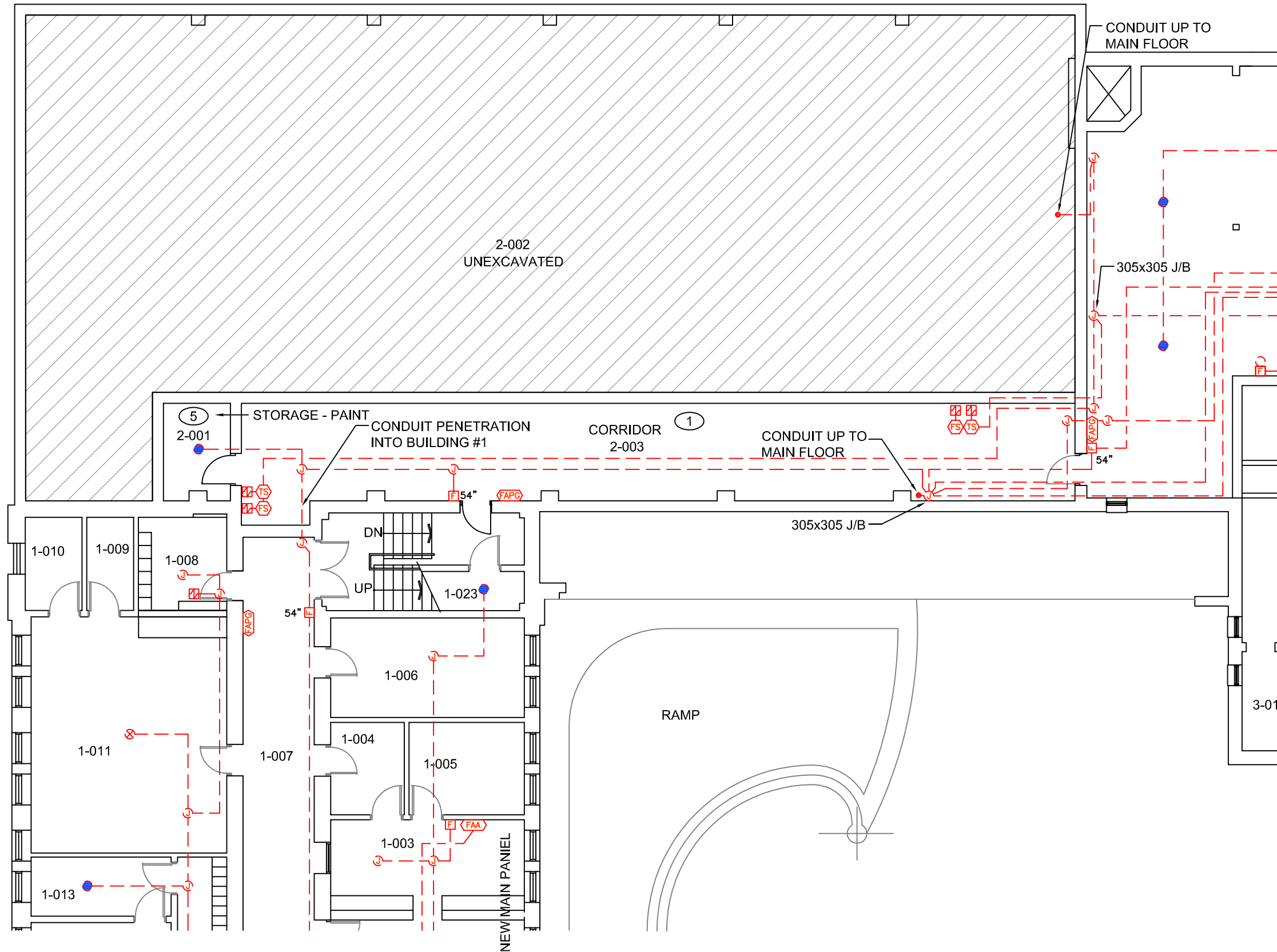
- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

CLIENT:  
CORRECTIONAL SERVICE CANADA

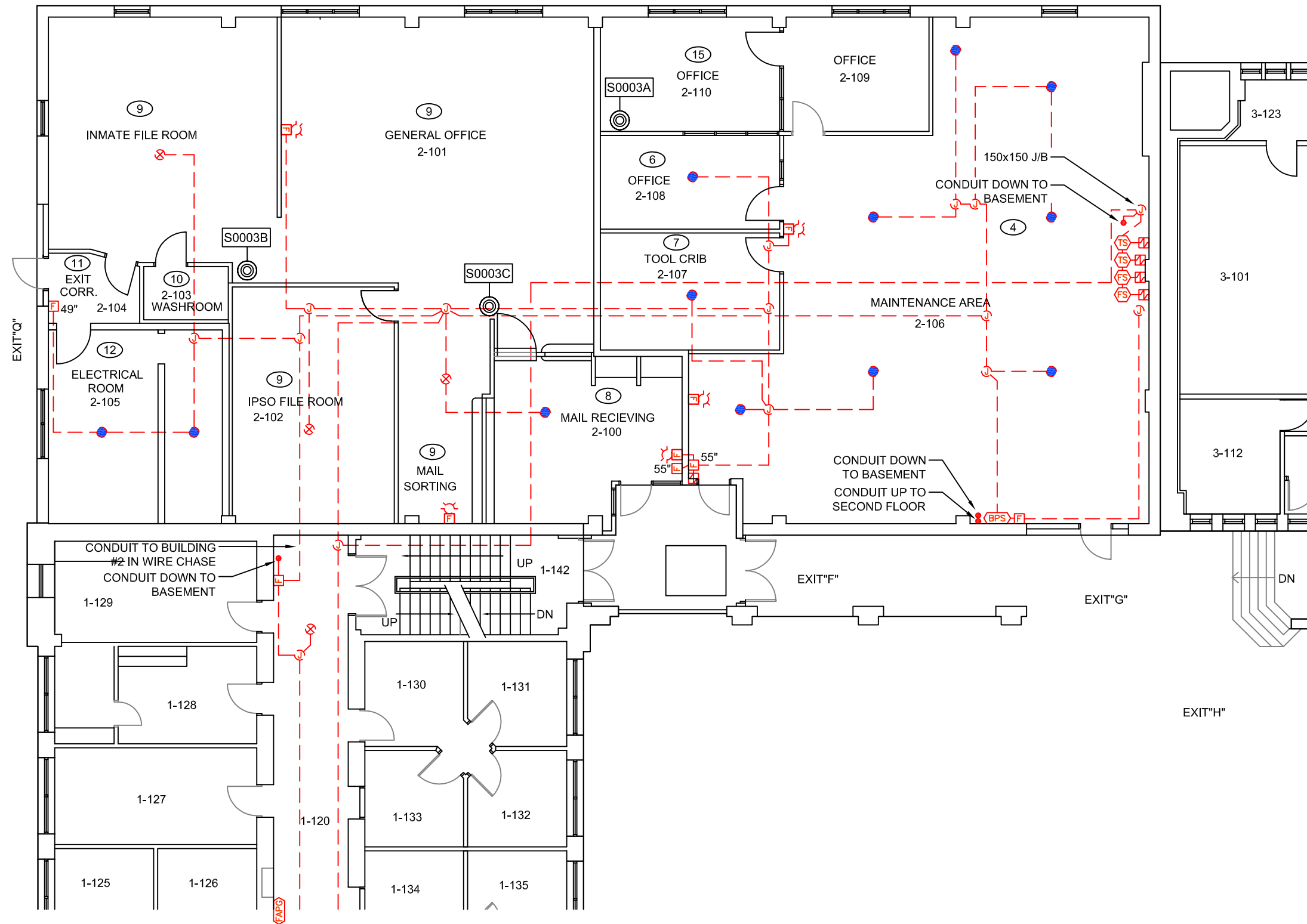
LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
BASEMENT DEMOLITION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>VM     | DRAWING:<br><br>8 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |







LEGEND:

- (X) LOCATION NUMBER
- (C) ASBESTOS BULK SAMPLE LOCATION
- [M] MANUAL FIRE ALARM PULL STATION
- [S] SMOKE DETECTOR
- [H] HEAT DETECTOR - FIXED TEMPERATURE
- [B] FIRE ALARM BELL WITH VISUAL ALARM
- [R] END OF LINE RESISTOR
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [FPG] FIRE ALARM PASSIVE GRAPHIC
- [J] JUNCTION BOX

NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
- LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
GROUND FLOOR DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

SM

SCALE:

NTS

DRAWING:

9 OF 25





LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- 🔔 FIRE ALARM BELL
- ⊗ SMOKE DETECTOR
- HEAT DETECTOR - FIXED TEMPERATURE
- 🔔 FIRE ALARM BELL
- ⊞ END OF LINE RESISTOR
- 🖼️ FIRE ALARM PASSIVE GRAPHIC
- Ⓜ JUNCTION BOX

NOTES:

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- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
SECOND FLOOR DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

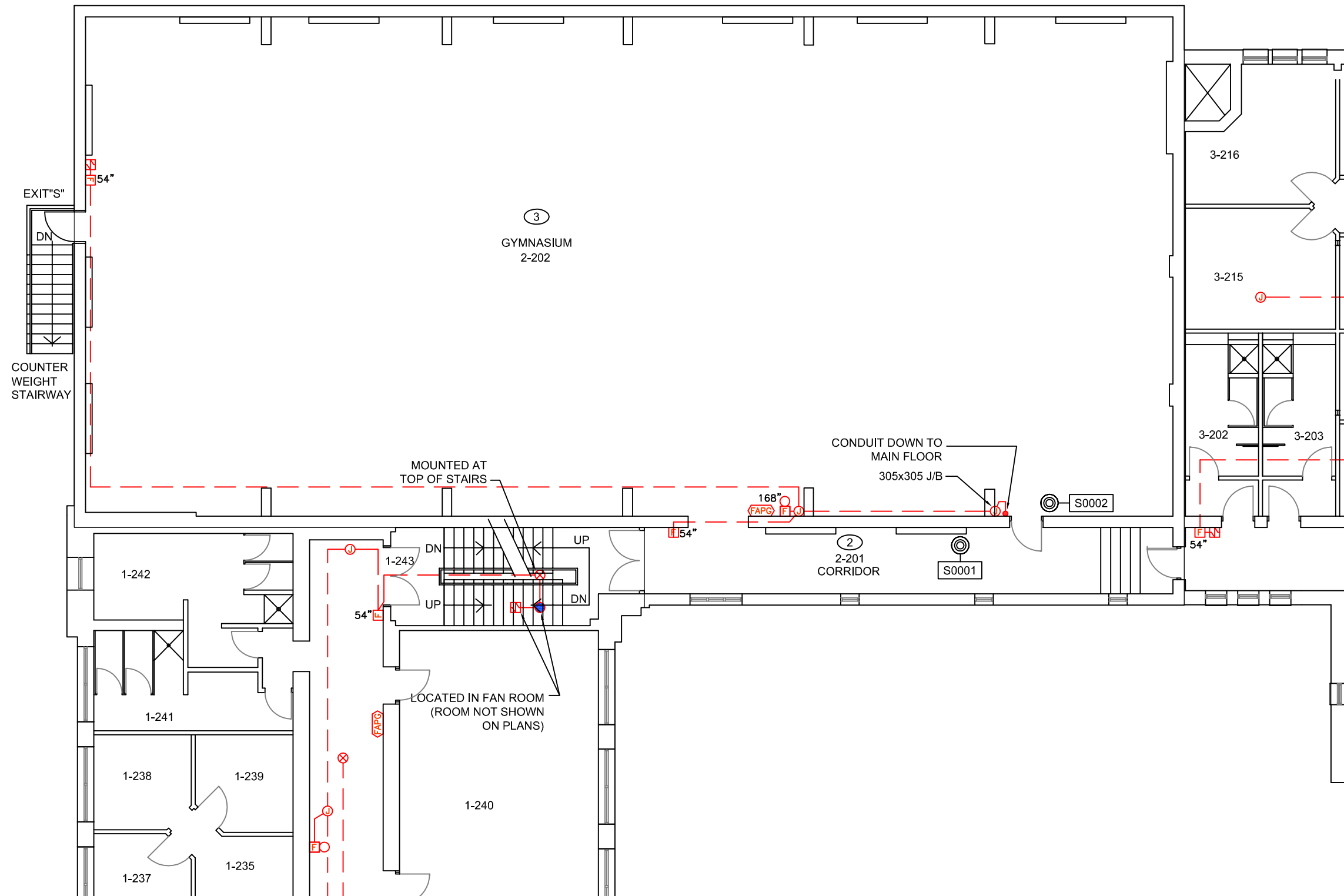
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SCALE:

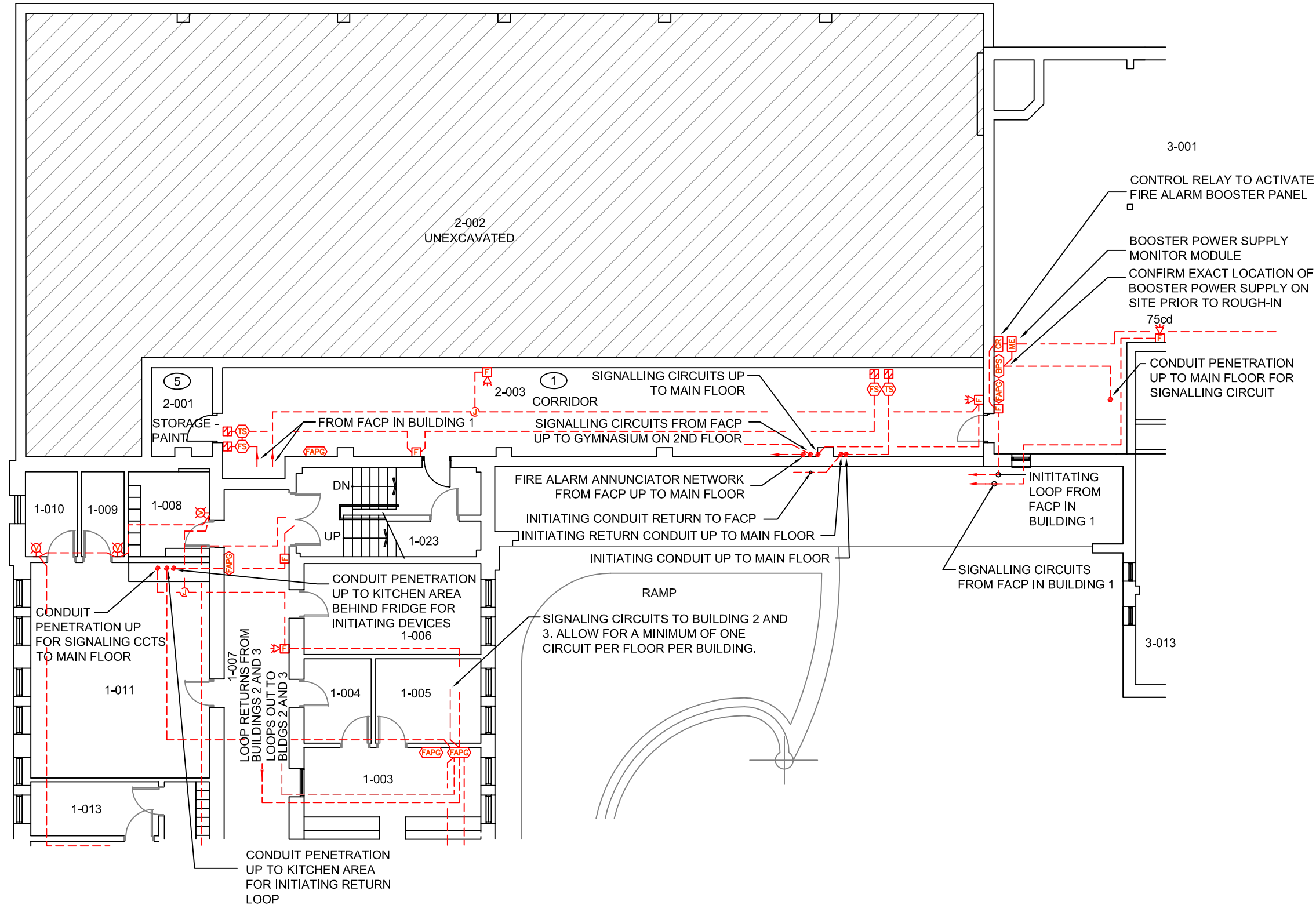
NTS

10 OF 25

PA2018090201







LEGEND:

- (X) LOCATION NUMBER
- ASBESTOS BULK SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- FIRE ALARM HORN WITH VISUAL ALARM
- VISUAL ALARM - WALL MOUNTED
- END OF LINE RESISTOR
- FIRE ALARM MONITORING ELEMENT
- FIRE ALARM CONTROL RELAY
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM PASSIVE GRAPHIC
- JUNCTION BOX

NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
- LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
BASEMENT CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

SM

SCALE:

NTS

DRAWING:

11 OF 25

PA2018090202





LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- ☐ MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- ☒ FIRE ALARM HORN WITH VISUAL ALARM
- ☒ VISUAL ALARM - WALL MOUNTED
- ☒ END OF LINE RESISTOR
- ⊗ FLOW SWITCH
- ⊗ TAMPER SWITCH
- ☒ FIRE ALARM PASSIVE GRAPHIC
- ☒ FIRE ALARM ANNUNCIATOR
- ⊙ JUNCTION BOX

NOTES:

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2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
GROUND FLOOR CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

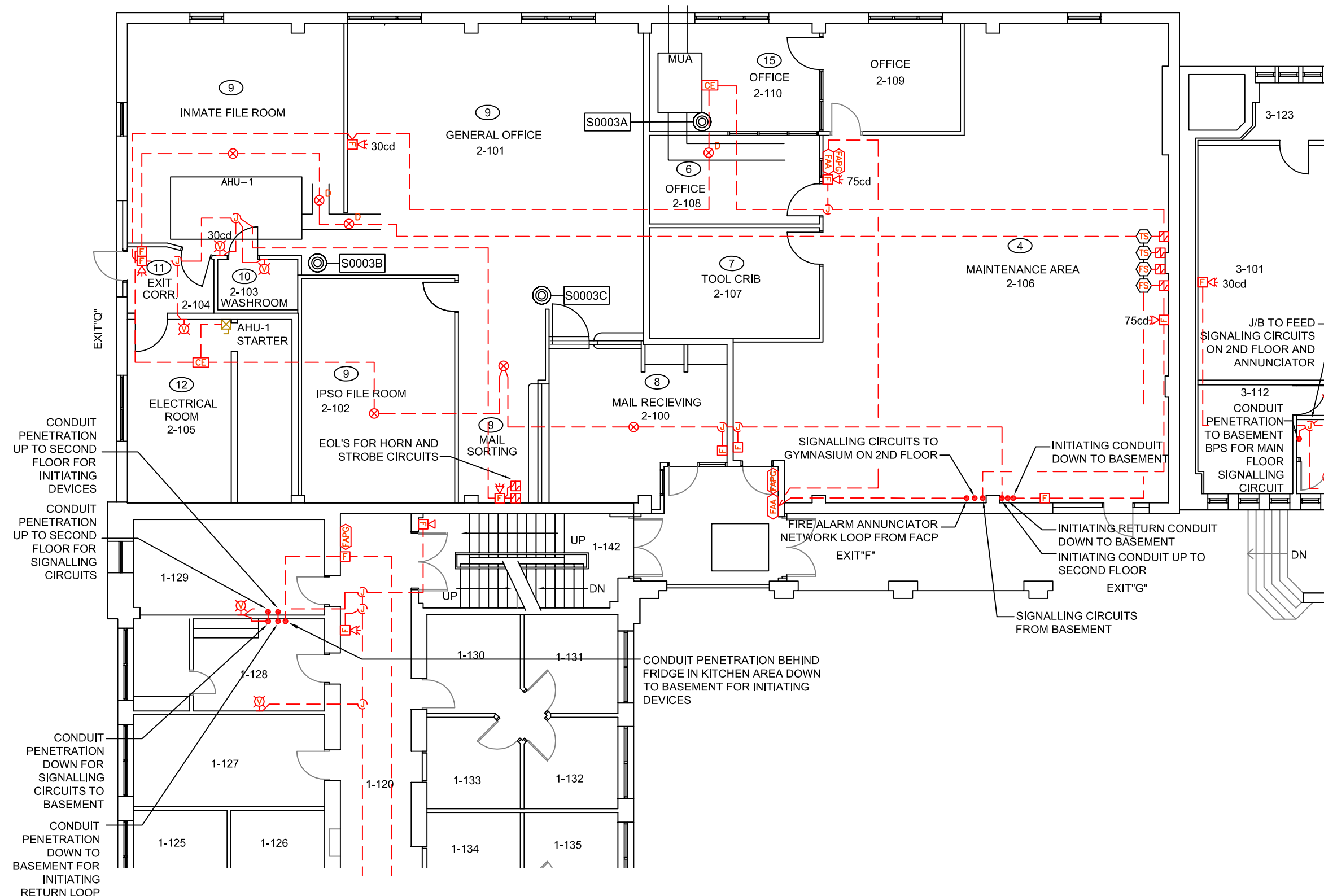
SM

SCALE:

NTS

12 OF 25

PA2018090203







LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- ⌂ MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- ⌂ FIRE ALARM HORN WITH VISUAL ALARM
- ⌂ VISUAL ALARM - WALL MOUNTED
- ⌂ END OF LINE RESISTOR
- ⌂ FIRE ALARM PASSIVE GRAPHIC
- Ⓜ JUNCTION BOX

NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
- LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 2  
SECOND FLOOR CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

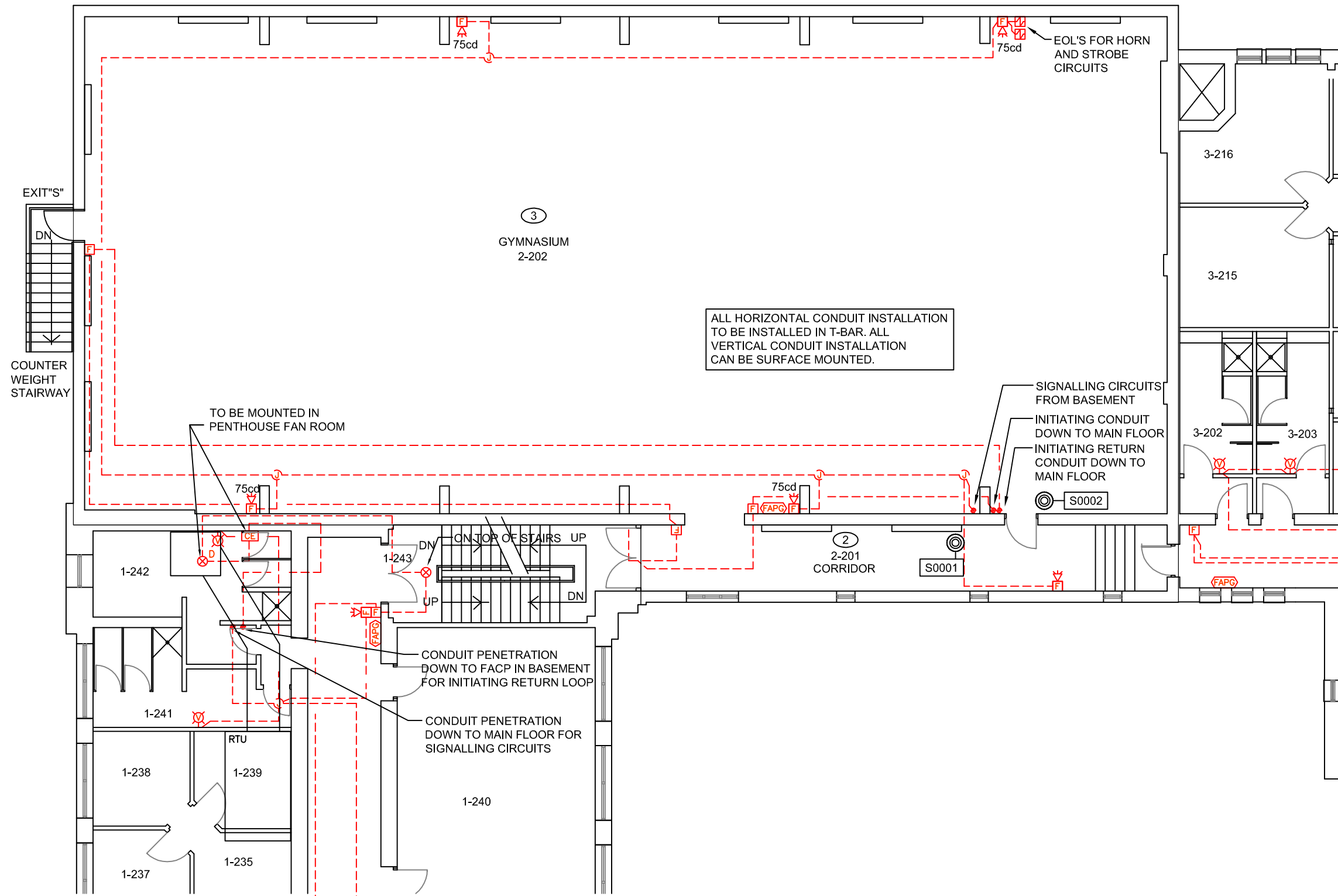
SM

SCALE:

NTS

13 OF 25

PA2018090204







LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- POSITIVE ASBESTOS DRYWALL COMPOUND
- MANUAL FIRE ALARM PULL STATION
- 🔔 FIRE ALARM BELL
- HEAT DETECTOR - FIXED TEMPERATURE
- ⊞ END OF LINE RESISTOR
- ⚡ FLOW SWITCH
- ⚡ TAMPER SWITCH
- 🔥 FIRE ALARM PASSIVE GRAPHIC
- ⦿ JUNCTION BOX

NOTES:

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2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
BASEMENT DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

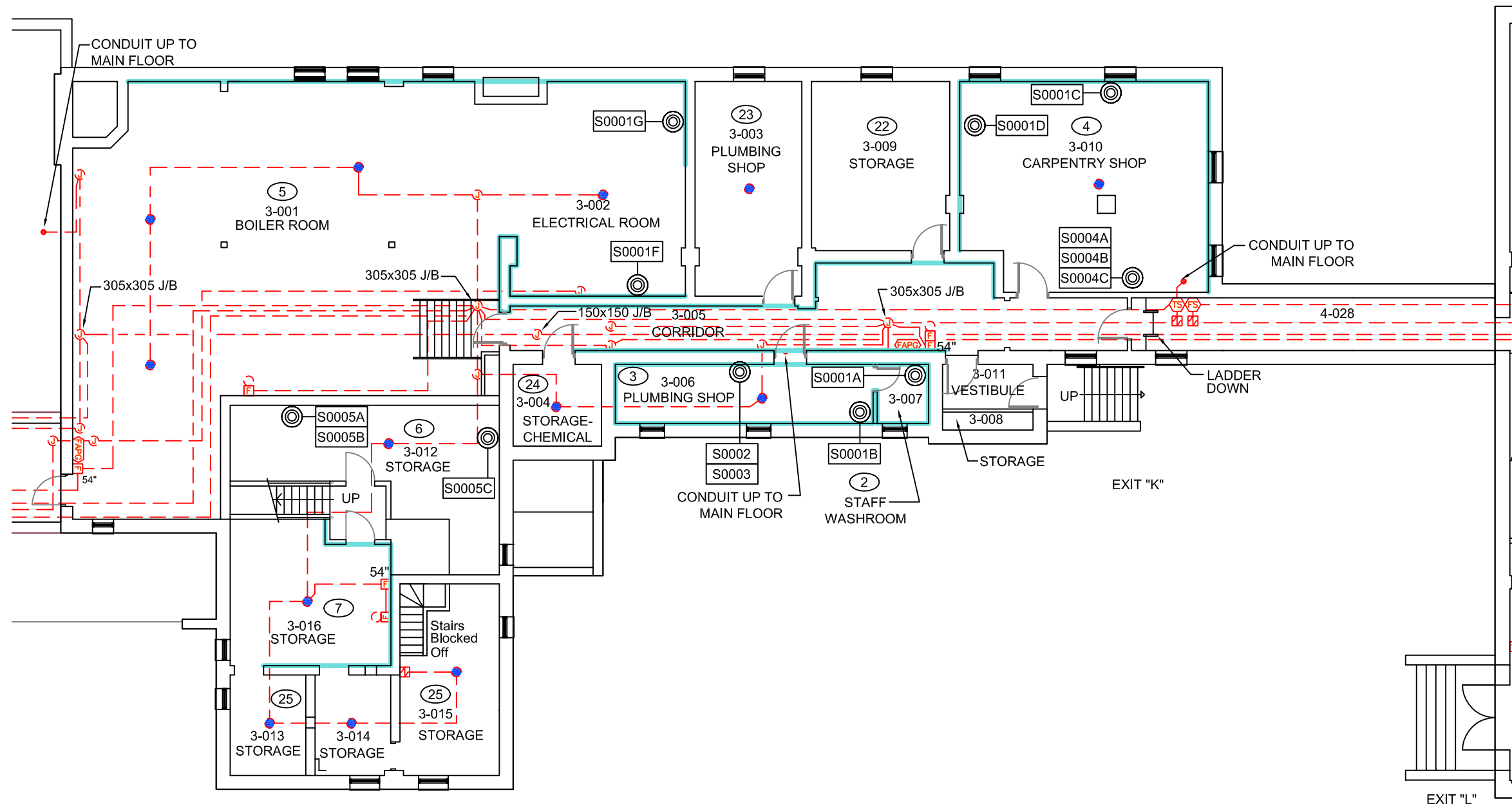
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SCALE:

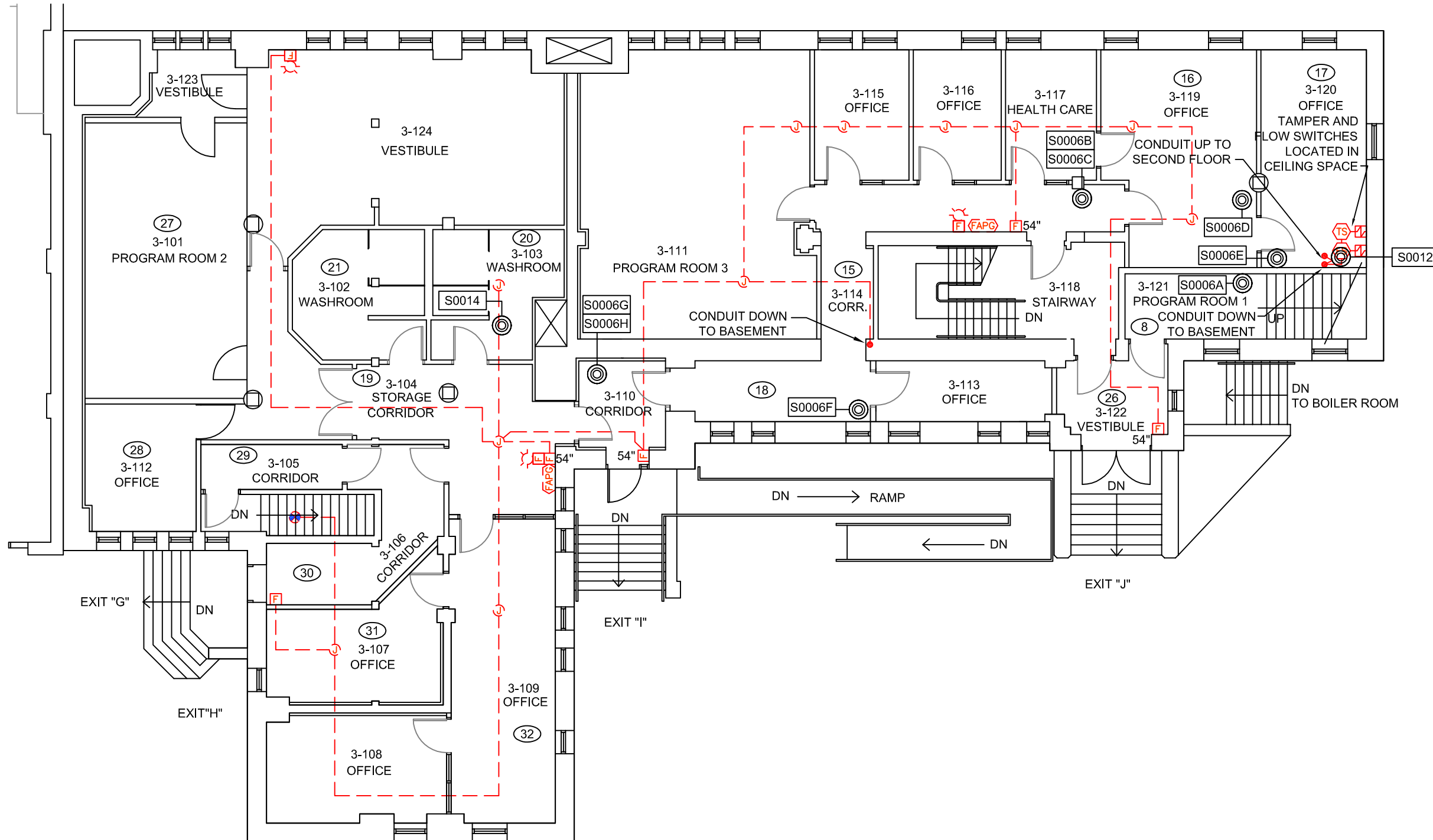
NTS

14 OF 25

PA2018090205







LEGEND:

- (X) LOCATION NUMBER
- (•) ASBESTOS BULK SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- (S) SMOKE DETECTOR C/W LOCAL ALARM
- [B] FIRE ALARM BELL WITH VISUAL ALARM
- [R] END OF LINE RESISTOR
- (F) FLOW SWITCH
- (T) TAMPER SWITCH
- [FAPG] FIRE ALARM PASSIVE GRAPHIC
- (J) JUNCTION BOX

NOTES:

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3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
GROUND FLOOR DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

SM

SCALE:

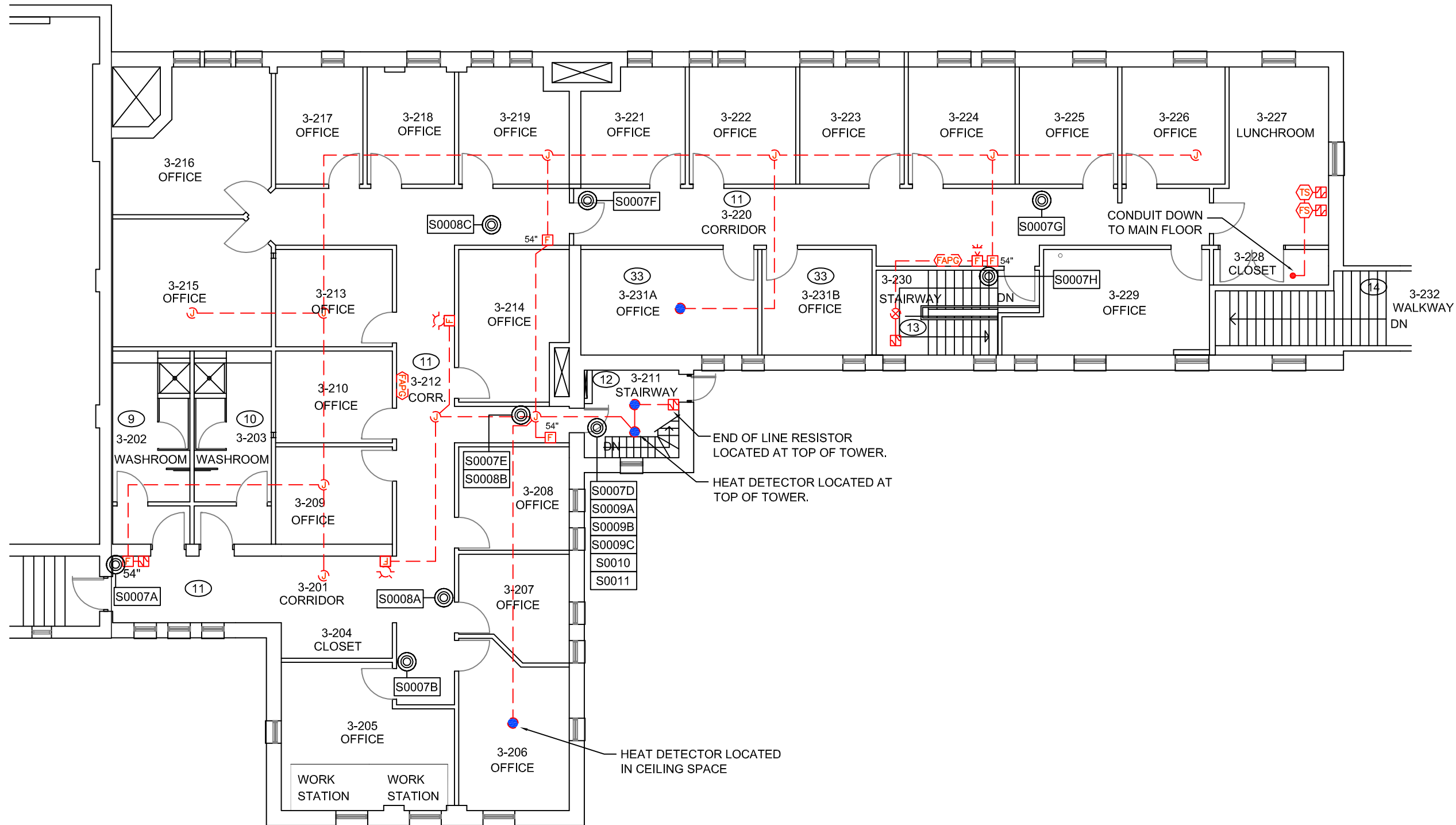
NTS

DRAWING:

15 OF 25

PA2018090206





LEGEND:

- (X) LOCATION NUMBER
- (C) ASBESTOS BULK SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- HEAT DETECTOR - FIXED TEMPERATURE
- ⊗ SMOKE DETECTOR
- [R] END OF LINE RESISTOR
- [B] FIRE ALARM BELL WITH VISUAL ALARM
- [H] FIRE ALARM HORN WITH VISUAL ALARM
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [FPG] FIRE ALARM PASSIVE GRAPHIC
- Ⓜ JUNCTION BOX

NOTES:

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CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
SECOND FLOOR DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

SM

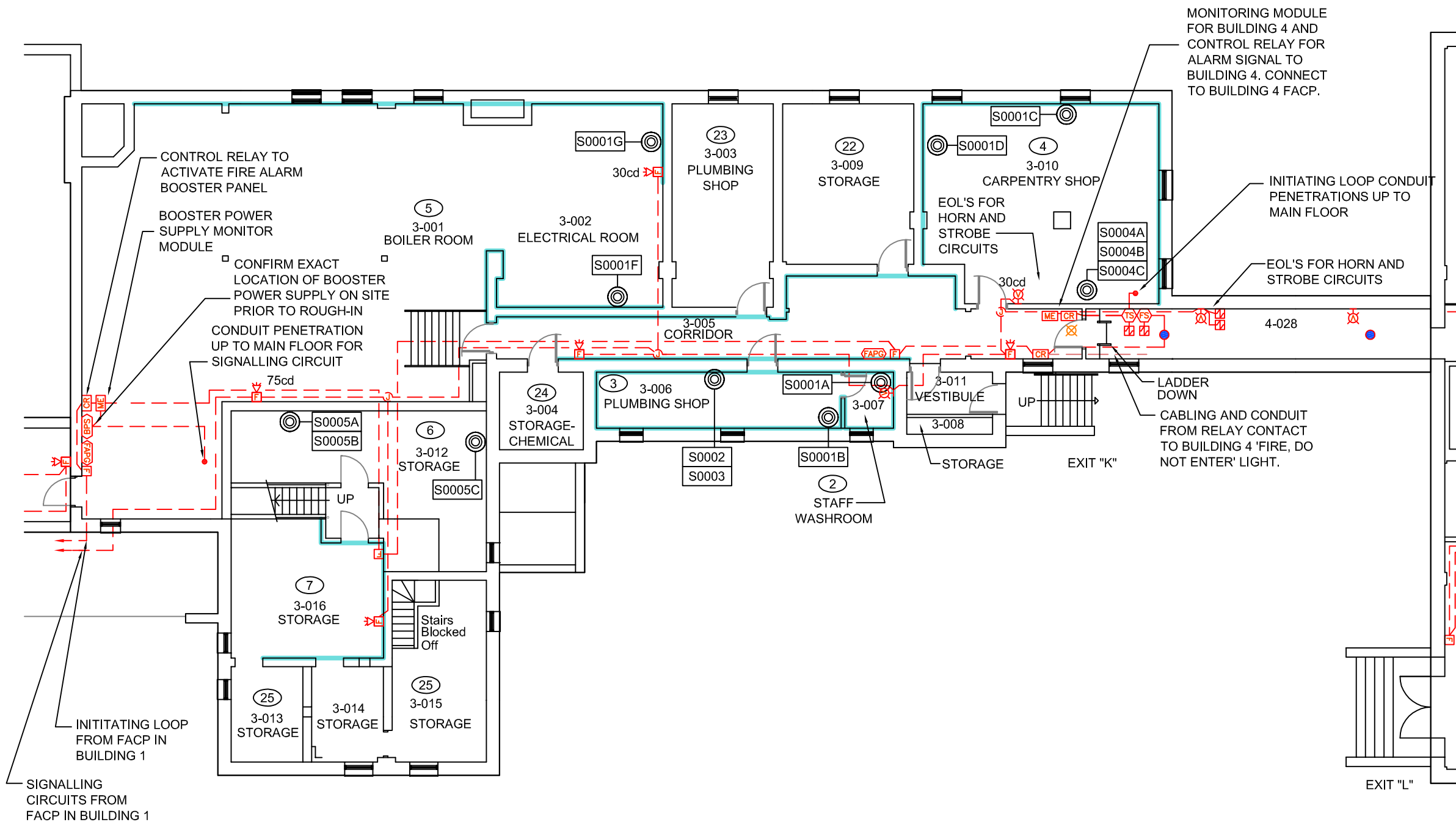
SCALE:

NTS

16 OF 25

PA2018090207





LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- POSITIVE ASBESTOS DRYWALL COMPOUND
- MANUAL FIRE ALARM PULL STATION
- HEAT DETECTOR - FIXED TEMPERATURE
- END OF LINE RESISTOR
- FIRE ALARM HORN WITH VISUAL ALARM
- VISUAL ALARM - WALL MOUNTED
- FIRE ALARM MONITORING ELEMENT
- FIRE ALARM CONTROL RELAY
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM BOOSTER POWER SUPPLY
- FIRE ALARM PASSIVE GRAPHIC
- CEILING MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
- ⊙ JUNCTION BOX

NOTES:

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3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
BASEMENT CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

SM

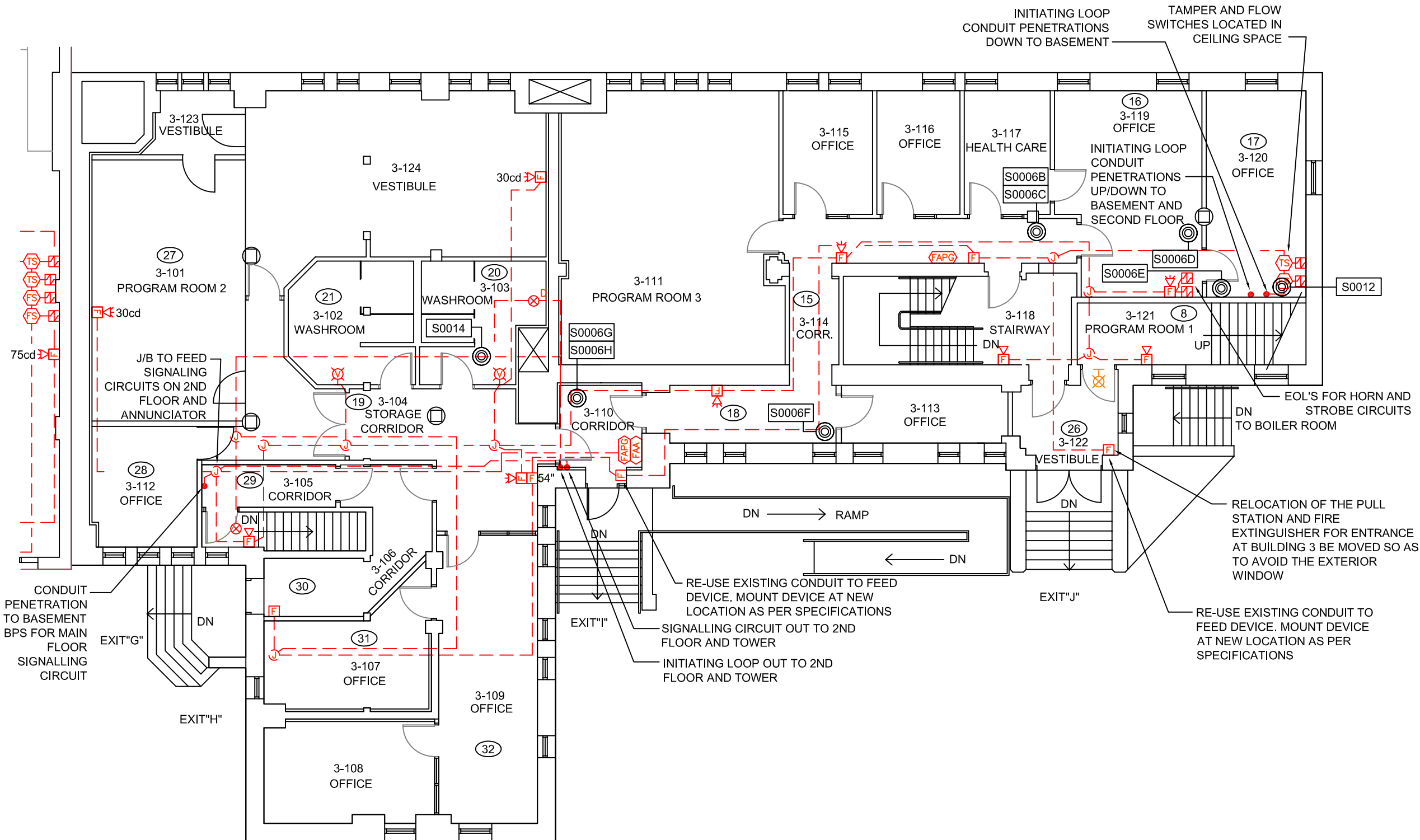
SCALE:

NTS

17 OF 25

PA2018090208





LEGEND:

- (X) LOCATION NUMBER
- ⊙ ASBESTOS BULK SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- 🔊 FIRE ALARM HORN
- 🔊👁 FIRE ALARM HORN WITH VISUAL ALARM
- ⏏ END OF LINE RESISTOR
- 🔍 FLOW SWITCH
- 🔒 TAMPER SWITCH
- 🖼 FIRE ALARM PASSIVE GRAPHIC
- 🚫 WALL MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
- ⬛ JUNCTION BOX

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3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
GROUND FLOOR CONSTRUCTION

DATE:

2018/09/13

PROJECT #:

212257

DRAWN BY:

VM

CHECKED BY:

SM

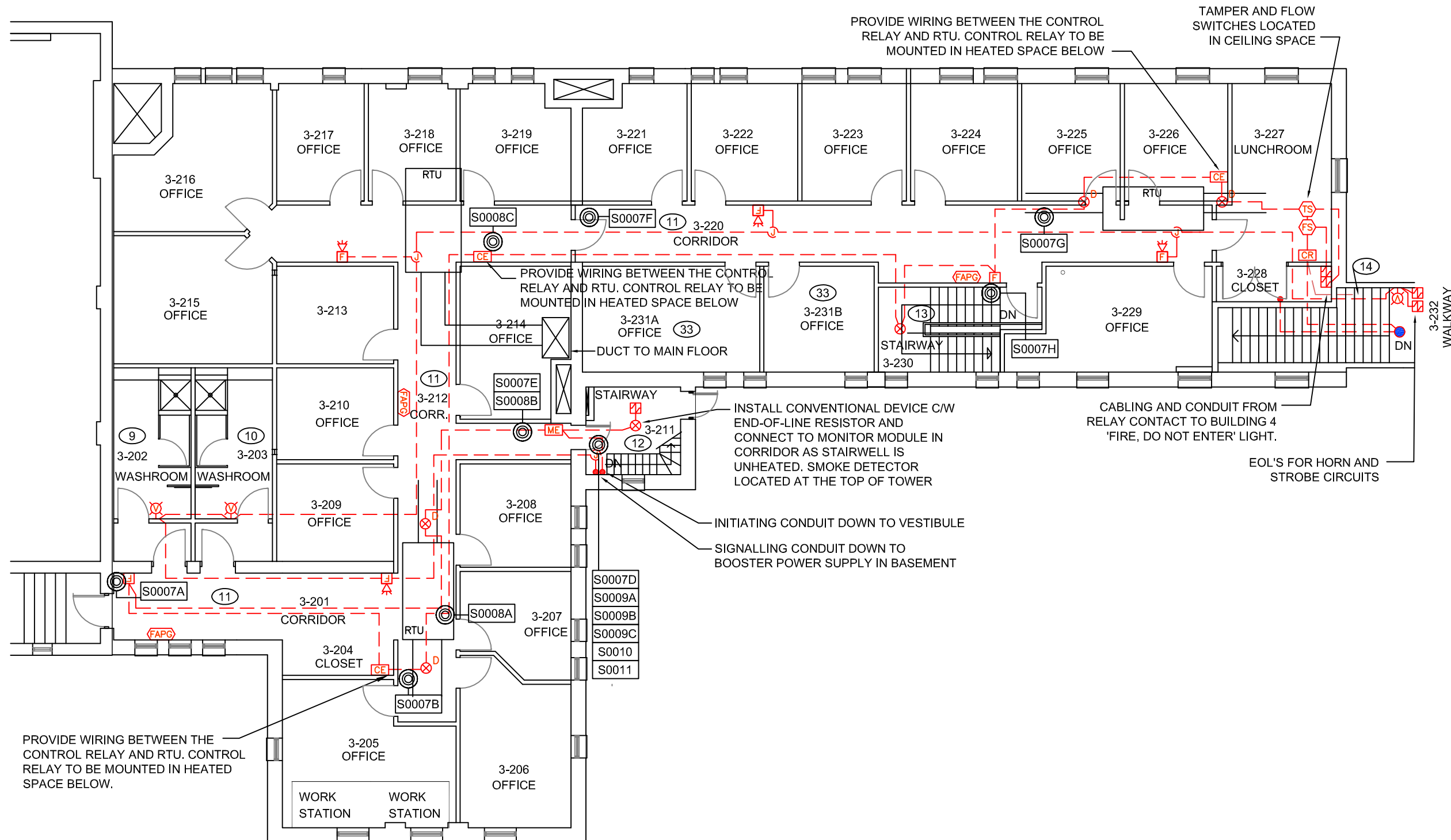
SCALE:

NTS

18 OF 25

PA2018090209





LEGEND:

- (X) LOCATION NUMBER
- (C) ASBESTOS BULK SAMPLE LOCATION
- (F) MANUAL FIRE ALARM PULL STATION
- (B) HEAT DETECTOR - FIXED TEMPERATURE
- (S) SMOKE DETECTOR
- (R) END OF LINE RESISTOR
- (V) VISUAL ALARM - WALL MOUNTED
- (FS) FLOW SWITCH
- (TS) TAMPER SWITCH
- (ME) FIRE ALARM MONITORING ELEMENT
- (CR) FIRE ALARM CONTROL RELAY
- (FAPG) FIRE ALARM PASSIVE GRAPHIC
- (J) JUNCTION BOX

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CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 3  
SECOND FLOOR CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

VM

CHECKED BY:

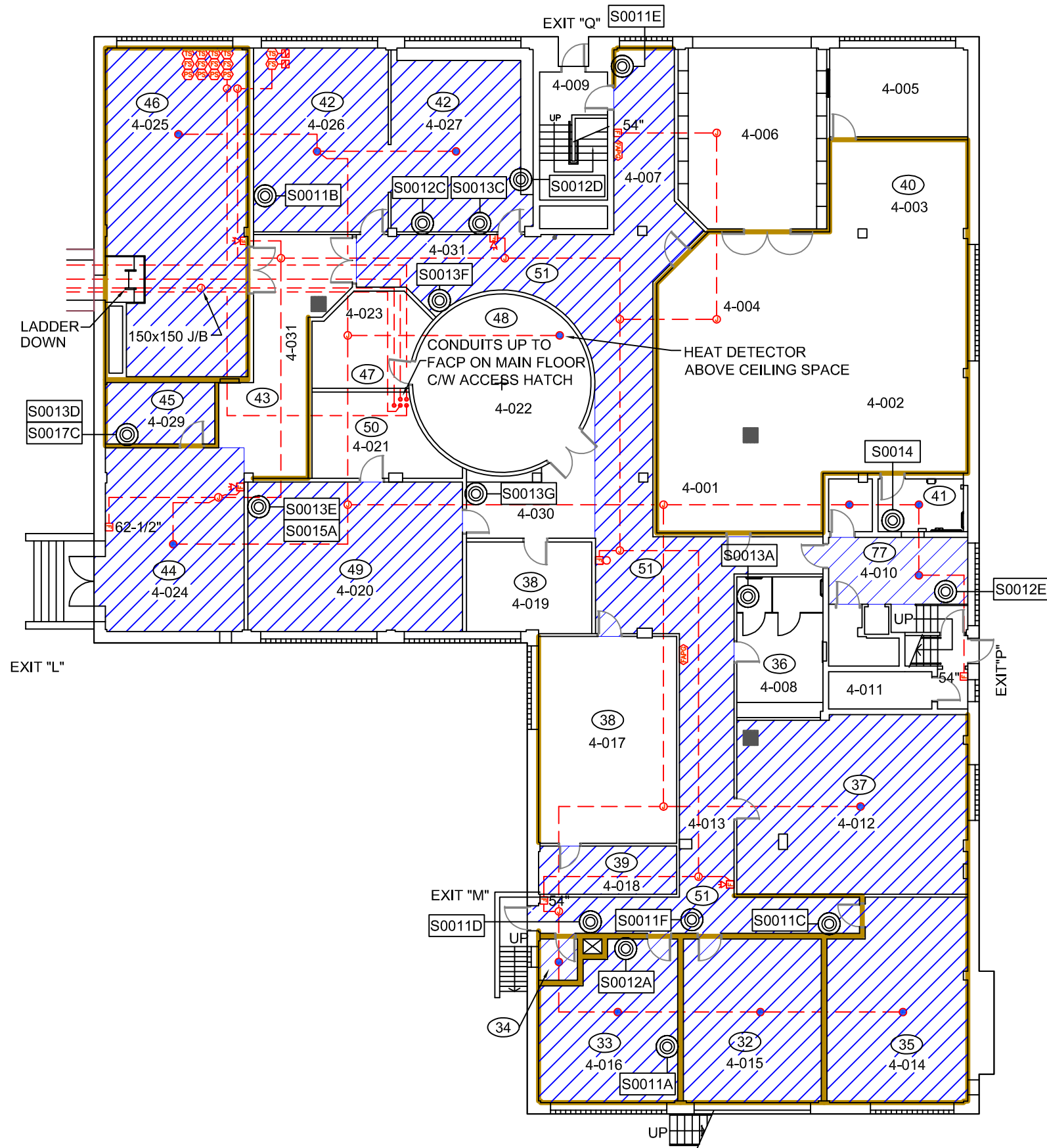
SM

SCALE:

NTS

19 OF 25





- LEGEND:
- (X) LOCATION NUMBER
  - ⊙ ASBESTOS BULK SAMPLE LOCATION
  - POSITIVE ASBESTOS PLASTER WALLS
  - ▨ POSITIVE ASBESTOS PLASTER CEILING
  - MANUAL FIRE ALARM PULL STATION
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ⬮ FIRE ALARM BELL
  - ⬮ FIRE ALARM HORN WITH VISUAL ALARM
  - ⬮ END OF LINE RESISTOR
  - ⬮ PRESSURE SWITCH
  - ⬮ FLOW SWITCH
  - ⬮ TAMPER SWITCH
  - ⬮ FIRE ALARM PASSIVE GRAPHIC
  - ⬮ JUNCTION BOX

- NOTES:
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  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

CLIENT:  
CORRECTIONAL SERVICE CANADA

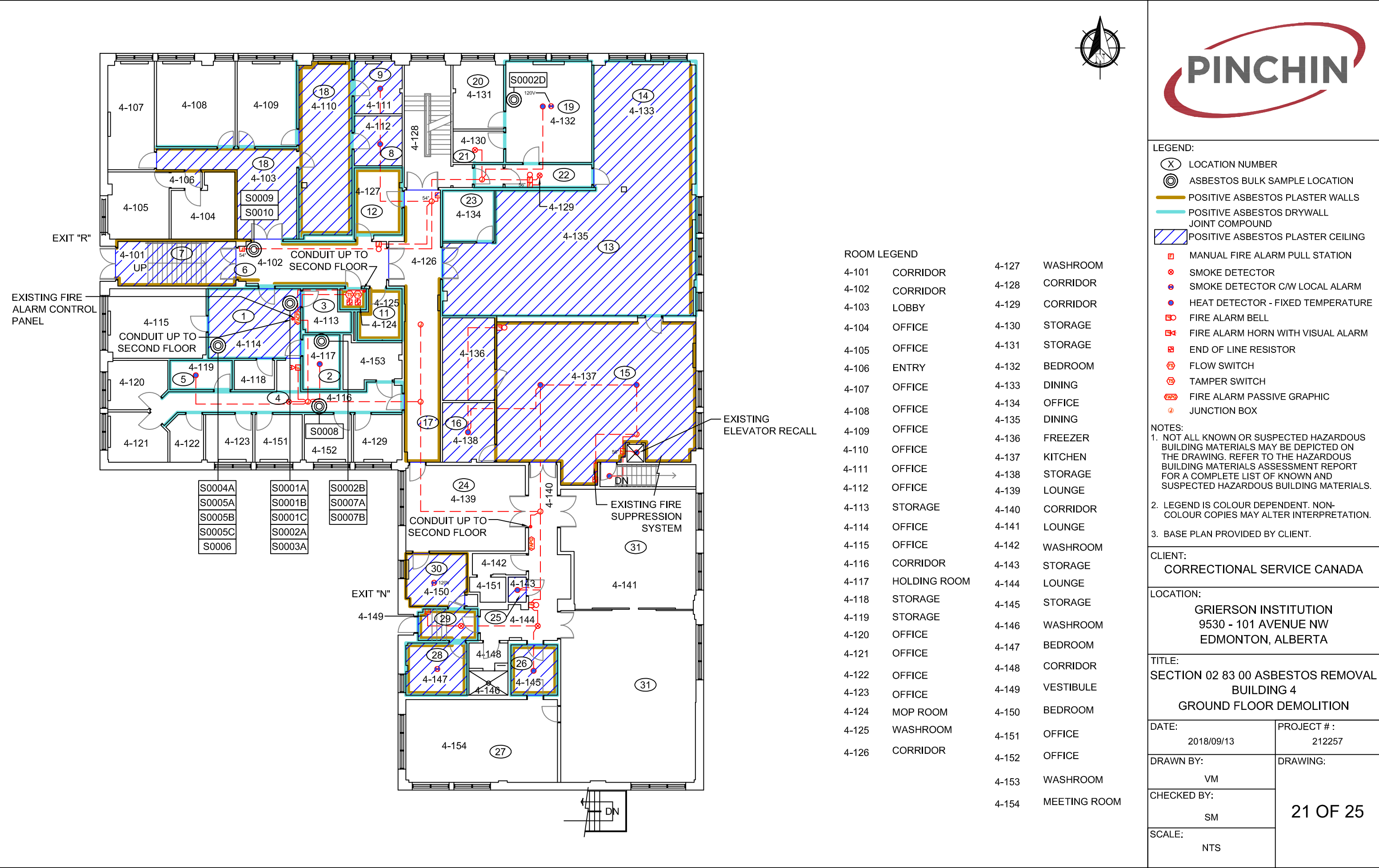
LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 4  
BASEMENT DEMOLITION

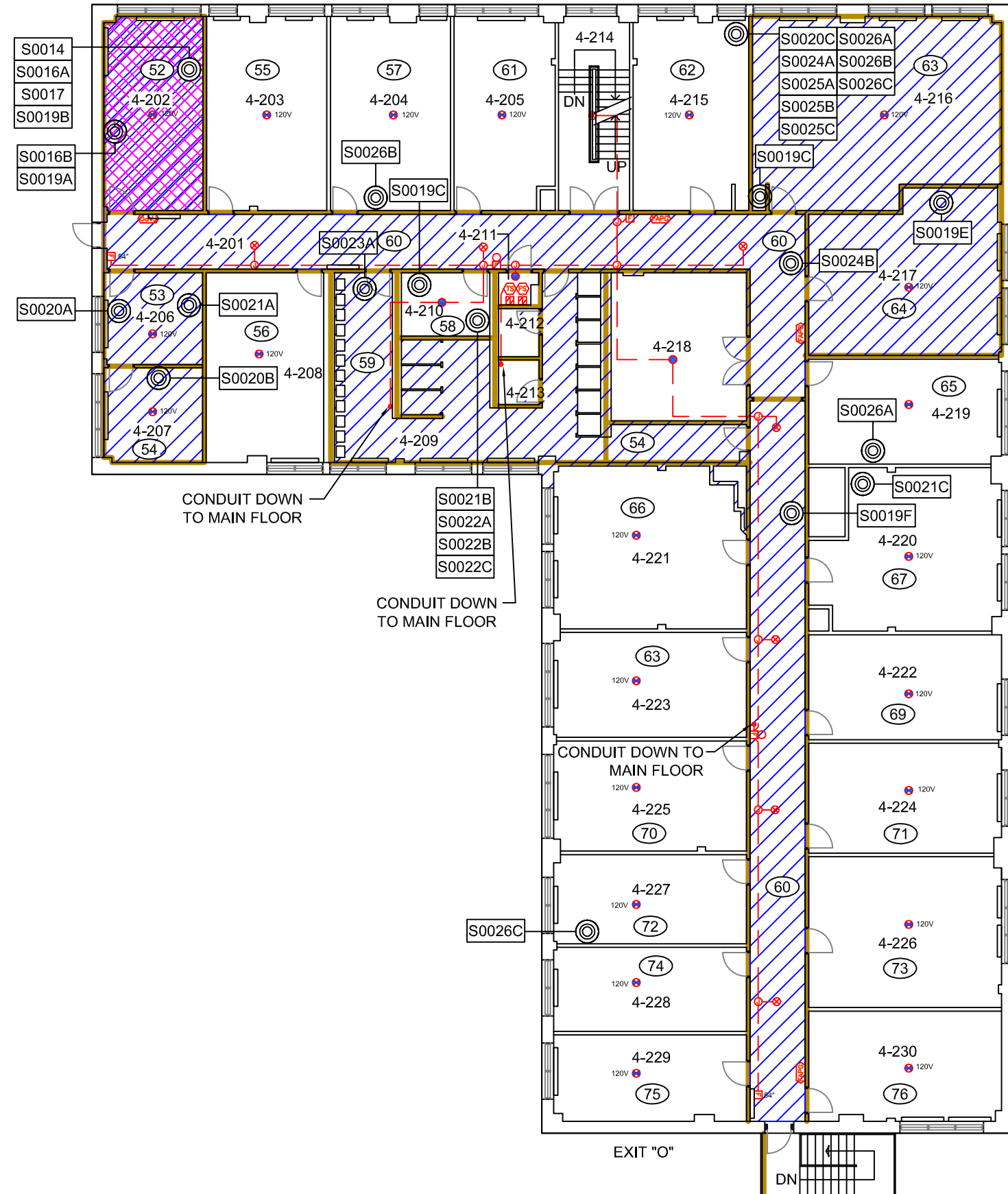
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|---------------------|--------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257    |
| DRAWN BY:<br>VM     | DRAWING:<br><br>20 OF 25 |
| CHECKED BY:<br>SM   |                          |
| SCALE:<br>NTS       |                          |

- ROOM LEGEND
- 4-001 STORAGE
  - 4-002 STORAGE
  - 4-003 STORAGE
  - 4-004 STORAGE
  - 4-005 OFFICE
  - 4-006 GARAGE
  - 4-007 CORRIDOR
  - 4-008 WASHROOM
  - 4-009 STAIRWAY - NORTH EXIT
  - 4-010 DUMBWAITER
  - 4-011 COOLER
  - 4-012 BACK TO WORK
  - 4-013 CORRIDOR - WASHROOM
  - 4-014 INMATE HOBBY ROOM
  - 4-015 PROPERTY ROOM
  - 4-016 STORAGE
  - 4-017 PROGRAM ROOM 2
  - 4-018 STORAGE
  - 4-019 FACILITATOR
  - 4-020 PROGRAM ROOM 1
  - 4-021 STORAGE
  - 4-022 CEREMONIAL ROOM
  - 4-023 STORAGE
  - 4-024 EXIT
  - 4-025 MECHANICAL ROOM
  - 4-026 GYMNASIUM
  - 4-027 RECREATION
  - 4-028 CORRIDOR
  - 4-029 MECHANICAL ROOM
  - 4-030 CORRIDOR
  - 4-031 CORRIDOR









#### ROOM LEGEND

|       |          |       |         |
|-------|----------|-------|---------|
| 4-201 | CORRIDOR | 4-217 | BEDROOM |
| 4-202 | BEDROOM  | 4-218 | LAUNDRY |
| 4-203 | BEDROOM  | 4-219 | BEDROOM |
| 4-204 | BEDROOM  | 4-220 | BEDROOM |
| 4-205 | BEDROOM  | 4-221 | BEDROOM |
| 4-206 | BEDROOM  | 4-222 | BEDROOM |
| 4-207 | BEDROOM  | 4-223 | BEDROOM |
| 4-208 | BEDROOM  | 4-224 | BEDROOM |
| 4-209 | WASHROOM | 4-225 | BEDROOM |
| 4-210 | STORAGE  | 4-226 | BEDROOM |
| 4-211 | MOP ROOM | 4-227 | BEDROOM |
| 4-212 | STORAGE  | 4-228 | BEDROOM |
| 4-213 | STORAGE  | 4-229 | BEDROOM |
| 4-214 | STAIRWAY | 4-230 | BEDROOM |
| 4-215 | BEDROOM  |       |         |
| 4-216 | BEDROOM  |       |         |



#### LEGEND:

- (X) LOCATION NUMBER
- (C) ASBESTOS BULK SAMPLE LOCATION
- POSITIVE ASBESTOS PLASTER WALLS
- POSITIVE ASBESTOS PLASTER CEILING
- POSITIVE ASBESTOS BROWN MASTIC BEHIND GLUED-ON ACT
- MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- ⊕ SMOKE DETECTOR C/W LOCAL ALARM
- ⊙ HEAT DETECTOR - FIXED TEMPERATURE
- ⊞ END OF LINE RESISTOR
- ⊞ FLOW SWITCH
- ⊞ TAMPER SWITCH
- ⊞ FIRE ALARM PASSIVE GRAPHIC
- ⊞ JUNCTION BOX

#### NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
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- BASE PLAN PROVIDED BY CLIENT.

#### CLIENT:

CORRECTIONAL SERVICE CANADA

#### LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

#### TITLE:

SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 4  
SECOND FLOOR DEMOLITION

#### DATE:

2018/09/13

#### PROJECT # :

212257

#### DRAWN BY:

VM

#### DRAWING:

#### CHECKED BY:

SM

#### SCALE:

NTS

22 OF 25





LEGEND:

- (X) LOCATION NUMBER
- ASBESTOS BULK SAMPLE LOCATION
- POSITIVE ASBESTOS PLASTER WALLS
- POSITIVE ASBESTOS PLASTER CEILING
- MANUAL FIRE ALARM PULL STATION
- FIRE ALARM HORN
- FIRE ALARM BELL WITH VISUAL ALARM
- VISUAL ALARM - WALL MOUNTED
- FIRE ALARM HORN WITH VISUAL ALARM
- END OF LINE RESISTOR
- PRESSURE SWITCH
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM CONTROL ELEMENT
- FIRE ALARM CONTROL RELAY
- FIRE ALARM PASSIVE GRAPHIC
- FIRE ALARM MONITORING ELEMENT
- JUNCTION BOX
- CEILING MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN

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GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 4  
BASEMENT CONSTRUCTION

DATE:  
2018/09/13

PROJECT # :  
212257

DRAWN BY:  
VM

CHECKED BY:  
SM

SCALE:  
NTS

23 OF 25

PA2018090214

CABLING AND CONDUIT FROM RELAY CONTACT TO BUILDING 3 'FIRE, DO NOT ENTER' LIGHT.

MONITORING MODULE FOR BUILDING 3 AND CONTROL RELAY FOR ALARM SIGNAL TO BUILDING 3. CONNECT TO BUILDING 3 FACP.

LADDER DOWN

S0013D  
S0017C

78  
TUNNEL

EXIT "L"

EXIT "Q" S0011E

4-009

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4-018

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LEGEND:

- (X) LOCATION NUMBER
- (C) ASBESTOS BULK SAMPLE LOCATION
- POSITIVE ASBESTOS PLASTER WALLS
- ▨ POSITIVE ASBESTOS PLASTER CEILING
- ▨ POSITIVE ASBESTOS BROWN MASTIC BEHIND GLUED-ON ACT
- MANUAL FIRE ALARM PULL STATION
- SMOKE DETECTOR
- SMOKE DETECTOR C/W LOCAL ALARM
- END OF LINE RESISTOR
- FIRE ALARM HORN WITH VISUAL ALARM
- VISUAL ALARM - WALL MOUNTED
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM BELL
- FIRE ALARM CONTROL RELAY
- FIRE ALARM PASSIVE GRAPHIC
- JUNCTION BOX

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SECTION 02 83 00 ASBESTOS REMOVAL  
BUILDING 4  
SECOND FLOOR CONSTRUCTION

DATE:  
2018/09/13

PROJECT # :  
212257

DRAWN BY:  
VM

DRAWING:

CHECKED BY:  
SM

25 OF 25

SCALE:  
NTS

ROOM LEGEND

- 4-201 CORRIDOR
- 4-202 BEDROOM
- 4-203 BEDROOM
- 4-204 BEDROOM
- 4-205 BEDROOM
- 4-206 BEDROOM
- 4-207 BEDROOM
- 4-208 BEDROOM
- 4-209 WASHROOM
- 4-210 STORAGE
- 4-211 MOP ROOM
- 4-212 STORAGE
- 4-213 STORAGE
- 4-214 STAIRWAY
- 4-215 BEDROOM
- 4-216 BEDROOM
- 4-217 BEDROOM
- 4-218 LAUNDRY
- 4-219 BEDROOM
- 4-220 BEDROOM
- 4-221 BEDROOM
- 4-222 BEDROOM
- 4-223 BEDROOM
- 4-224 BEDROOM
- 4-225 BEDROOM
- 4-226 BEDROOM
- 4-227 BEDROOM
- 4-228 BEDROOM
- 4-229 BEDROOM
- 4-230 BEDROOM









**Part 1 General****1.1 SUMMARY**

- .1 Comply with requirements of this Section when disturbing lead-based paints from drywall and plaster walls and ceiling, brick walls, and from conduit, trim, fasteners, mounting plates or surfaces as indicated on the attached drawings.
- .2 Furnish all labour, materials, services, insurance and equipment, in accordance with requirements of Workplace Health & Safety, Alberta Environment and other regulatory agencies to complete the work of this section.
- .3 Work will be subject to frequent inspection by the Department Representative.
- .4 Refer to attached drawings for locations of lead-based paints to be impacted.
- .5 Site conditions to be confirmed by the Contractor and any discrepancies are to be reported to the Department Representative.

**1.2 SCOPE OF WORK**

- .1 Removal or application of surface mounted fire alarm fixtures, conduit, trim and fasteners from small sections of wall, ceiling, HVAC, and exterior building surfaces using a power tool with an effective dust collection system equipped with a HEPA filter or a non-powered hand tool.
- .2 Application of surface mounted fire alarm fixtures, conduit, trim and fasteners to small sections of wall, ceiling, HVAC, and exterior building surfaces using a chemical gel or paste.
- .3 Manual demolition of drywall or plaster walls and ceilings for the installation of conduit, panels, and fire alarm fixtures by scoring the edge of the section, and manually removing the sections by hand or with hand tools such as a sledgehammer or similar tool. Note: This can be avoided if lead paint is completely removed from the impacted surfaces following the procedures noted in sections 1.2.1 or 1.2.2 prior to this work.
- .4 Removal of plaster and lathe from walls and ceilings for the installation of conduit, panels, and fire alarm fixtures by using power tools and saws with effective dust collection systems equipped with a HEPA filters. Note: This can be avoided if lead paint is completely removed from the impacted surfaces following the procedures noted in sections 1.2.1 or 1.2.2 prior to this work.

**1.3 RELATED WORK**

- .1 Section 02 82 00 Asbestos Removal

**1.4 REFERENCES**

- .1 Department of Justice Canada
  - .1 Canadian Environmental Protection Act, 1999 (CEPA)
  - .2 Surface Coating Materials Regulations, SOR/2005-109, Hazardous Products Act



- .2 Alberta Government
  - .1 Occupational Health and Safety Act, Regulation and Code, Province of Alberta, 2009
  - .2 Workplace Health and Safety Bulletin, Lead at the Work Site (CH061), Government of Alberta, Employment and Immigration, July 2009
- .3 Health Canada
  - .1 Workplace Hazardous Materials Information System (WHMIS), Material Safety Data Sheets (MSDS)
- .4 Canadian Standards Association (CSA)
  - .1 CSA Standard Z94.4-M2003, Selection, Care, and Use of Respirators
- .5 Human Resources and Social Development Canada (HRSDC)
  - .1 Canada Labour Code Part II, - SOR 86-304 - Occupational Health and Safety Regulations
- .6 Transport Canada (TC)
  - .1 Transportation of Dangerous Goods Act, 1992 (TDGA)
- .7 U.S. Environmental Protection Agency (EPA)
  - .1 EPA 747-R-95-007-[1995], Sampling House Dust for Lead
- .8 U.S. Department of Health and Human Services/Centers for Disease Control and Prevention/National Institute for Occupational Safety and Health (NIOSH)
  - .1 NIOSH 94-113 - NIOSH Manual of Analytical Methods (NMAM), 4th Edition (1994)
- .9 U.S. Department of Labour - Occupational Safety and Health Administration (OSHA) - Toxic and Hazardous Substances
  - .1 Lead in Construction Regulation - 29 CFR 1926.62-[1993]
- .10 Underwriters' Laboratories of Canada (ULC)

## **1.5 DEFINITIONS**

- .1 Lead Work Area: Area where work takes place which will, or may, disturb lead paint.
- .2 HEPA Filter: High Efficiency Particulate Aerosol filter that is at least 99.97 percent efficient in collecting a 0.3 micrometre aerosol.
- .3 Authorized Visitors: Departmental Representative, Engineer or designated representative[s].
- .4 Polyethylene: Polyethylene sheeting or rip-proof polyethylene sheeting with tape along edges, around penetrating objects, over cuts and tears, and elsewhere as required to provide a continuous



- polyethylene membrane to protect underlying surfaces from water damage or damage by lock-down agents, and to prevent escape of lead dusts through sheeting into Occupied Areas.
- .5 Occupied Area: Areas of building or work site that is outside Work Area.
  - .6 Negative Pressure: A reduced pressure within the Lead Work Area established by extracting air directly from the Lead Work Area, and discharging this air outside the building.
  - .7 Filter Integrity Test: Leak testing using liquid dioctylphthalate (DOP) or polyalphaolefin (PAO) generated into an aerosol used for challenging HEPA filter assemblies.
  - .8 Enclosure: Rip-proof polyethylene sheeting installed to fully isolate the Lead Work Area. Enclosure shall have polyethylene sheeting as a top at locations where the enclosure does not extend up to the underside of the structure.
  - .9 Action level: Employee exposure, without regard to use of respirators, to airborne concentration of lead of 50 micrograms per cubic meter of air ( $50 \text{ ug/m}^3$ ) calculated as 8-hour time-weighted average (TWA). Minimum precautions for lead abatement are based on airborne lead concentrations less than 0.05 milligrams per cubic meter of air for removal of lead based paint by methods noted in paragraph 1.1.
  - .10 Sprayer: garden reservoir type sprayer or airless spray equipment capable of producing mist or fine spray. Must be appropriate capacity for scope of work.
  - .11 Competent person: Individuals capable of identifying existing lead hazards in workplace taking corrective measures to eliminate them.
  - .12 Airlock: Ingress or egress system, without permitting air movement between contaminated area and uncontaminated area. Consisting of two curtained doorways at least 2 m apart.
  - .13 Curtained doorway: Arrangement of closures to allow ingress and egress from one room to another. Typically constructed as follows:
    - .1 Place two overlapping polyethylene sheets over existing or temporarily framed doorway, securing each along top of doorway, securing vertical edge of one sheet along one vertical side of doorway, and secure other sheet along opposite vertical side of doorway.
    - .2 Reinforce free edges of polyethylene with duct tape and add weight to bottom edge to ensure proper closing.
    - .3 Overlap each polyethylene sheet at openings 1.5 m on each side.

## 1.6 SUBMITTALS

- .1 Before commencing work Contractor shall:
  - .1 Submit proof satisfactory to the Department Representative that the site location, required permits and suitable arrangements for transport and disposal of lead-based paint waste or contaminated materials have been obtained. Ensure required manifest documentation regarding disposal is submitted in accordance with these specifications.



- .2 Provide proof satisfactory to the Department Representative that employees have had instruction on hazards of lead exposure, respirator use, dress, and aspects of work procedures and protective measures.

## **1.7 QUALITY ASSURANCE**

- .1 Ensure that the removal and handling of lead-contaminated materials is performed by persons experienced in the methods, procedures and industry practices of lead abatement.
- .2 Ensure that work proceeds to schedule, meeting all requirements of this specification.
- .3 Complete work so that at no time airborne lead, visible solid residue, or water runoff contaminate areas outside work area. The Department Representative is empowered to order a shutdown of work when such a leakage has occurred or is likely to occur. Additional work by the Contractor or Department Representative to rectify unsatisfactory conditions will be back-charged to the Contractor.

## **1.8 PRODUCT DATA**

- .1 Product data:
  - .1 Provide documentation including test results, fire and flammability data, and Material Safety Data Sheets (MSDS) for chemicals or materials including:
    - .1 Encapsulants.
    - .2 Amended water.
    - .3 Slow drying sealer.

## **1.9 WASTE MANAGEMENT AND DISPOSAL**

- .1 Dispose of all lead-painted materials as hazardous waste unless a Toxicity Characterization Leaching Procedure (TCLP) test proves otherwise.
- .2 Separate waste materials for reuse and recycling in accordance with the Owner's requirements while following applicable transport and waste disposal regulations.
- .3 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional and Municipal regulations.
- .4 Disposal of lead waste generated by removal activities must comply with Federal, Provincial, Territorial and Municipal regulations. Dispose of lead waste in sealed double thickness 6 ml bags or leak proof drums. Label containers with appropriate warning labels.
- .5 Provide manifests describing and listing waste created. Transport containers by approved means to licensed landfill for burial.



**1.2 EXISTING CONDITIONS**

- .1 Reports and information pertaining to lead based paint to be handled, removed, or otherwise disturbed and disposed of during this Project are attached to this specification.
- .2 Notify the Department Representative of lead based paint discovered during Work and not apparent from drawings, specifications, or report pertaining to Work. Do not disturb such material until instructed by the Department Representative.

**1.3 SCHEDULING**

- .1 Not later than two days before beginning Work on this Project notify following in writing:
  - .1 Appropriate Regional or Zone Director of Medical Services Branch, Health Canada.
  - .2 Provincial Ministry of Labour.
  - .3 Disposal Authority.
- .2 Inform sub trades of presence of lead-containing materials identified in Existing Conditions.
- .3 Provide the Department Representative a copy of notifications prior to start of Work.
- .4 The work of this section shall be conducted in the most efficient manner, and may include phasing the work to meet the Owner's schedule.

**1.10 OWNER'S INSTRUCTIONS**

- .1 Provide the Department Representative satisfactory proof that every worker has had instruction and training in hazards of lead exposure, in personal hygiene, in aspects of work procedures, and in use, cleaning, and disposal of respirators and protective clothing.
- .2 Instruction and training related to respirators includes, at minimum:
  - .1 Proper fitting of equipment.
  - .2 Inspection and maintenance of equipment.
  - .3 Disinfecting of equipment.
  - .4 Limitations of equipment.
- .3 Instruction and training must be provided by competent, qualified person.
- .4 Supervisory personnel to complete required training.

**Part 2 Products****2.1 MATERIALS**

- .1 Polyethylene 6 mm thick unless otherwise specified; in sheet size to minimize joints.



- .2 Tape: fibreglass - reinforced duct tape suitable for sealing polyethylene under dry conditions and wet conditions using amended water.
- .3 Slow - drying sealer: non-staining, clear, water - dispersible type that remains tacky on surface for at least 8 hours and designed for purpose of trapping residual lead paint residue.
- .4 Polyethylene disposal bags, 6 mm thick.
- .5 Lead waste containers: type acceptable to dump operator with tightly fitting covers and 6 mm thickness sealable polyethylene liners.
  - .1 Label containers with pre-printed bilingual cautionary Warning Lead clearly visible when ready for removal to disposal site.

### **Part 3 Execution**

#### **3.1 SUPERVISION**

- .1 One Supervisor for every ten workers is required.
- .2 Supervisor must remain within work area during disturbance, removal, or handling of lead based paints.

#### **3.2 PREPARATION**

- .1 Remove and store items to be salvaged or reused.
  - .1 Protect and wrap items and transport and store in area specified by the Departmental Representative, Engineer or Department Representative.
- .2 Provide warning signs at the entrances to the lead control area which state:
  - .1 Lead hazard area.
  - .2 Access to the area is prohibited, except to authorized personnel.
  - .3 Personal protective equipment is required.
  - .4 Drinking, eating and smoking are prohibited in the area.
- .3 Work Area, General:
  - .1 Shut off and isolate HVAC system to prevent dust dispersal into other building areas.
  - .2 Pre-clean fixed casework and equipment within work area, using HEPA vacuum and cover and seal with polyethylene sheeting and tape.
  - .3 Clean work area using HEPA vacuum. If not practicable, use wet cleaning method. Do not raise dust.
  - .4 Seal off openings with polyethylene sheeting and seal with tape.



- .5 Protect floor surfaces covered from wall to wall with polyethylene sheets.
- .6 Maintain emergency fire exits or establish alternatives satisfactory to Authority having jurisdiction.
- .7 Where water application is required for wetting lead containing materials, provide temporary water supply appropriately sized for application of water as required.
- .8 Provide electrical power and shut off for operation of powered tools and equipment. Provide 24 volt safety lighting and ground fault interrupter circuits on power source for electrical tools, in accordance with applicable CSA Standard. Ensure safe installation of electrical cables and equipment.
- .4 Do not start work until:
  - .1 Arrangements have been made for disposal of waste.
  - .2 Tools, equipment, and materials waste containers are on site.
  - .3 Arrangements have been made for building security.
  - .4 Notifications have been completed and preparatory steps have been taken.

### **3.3 DISTURBANCE OF LEAD-BASED PAINTS USING HEPA-EQUIPPED POWER TOOLS OR NON-POWERED HAND TOOLS**

- .1 Mist wall, ceiling, HVAC, and exterior building surfaces, impacted by work with water to reduce particulate levels.
- .2 Remove or install surface mounted fire alarm fixtures, conduit, trim and fasteners from small sections of wall, ceiling, HVAC, and exterior building surfaces impacting lead-containing coatings with power tools equipped with HEPA filters; or remove with non-powered hand tool, other than manual scraping and sanding.
- .3 HEPA vacuum all debris and apply a lead encapsulating sealer to all surfaces where lead based paint have been impacted or debris settled.
- .4 Dispose of all debris as lead waste.

### **3.4 DISTURBANCE OF LEAD-BASED PAINTS USING A CHEMICAL OR GEL PASTE**

- .1 Remove lead-containing coatings anticipated to be impacted by the installation or removal of fire alarm fixtures, conduit, with a chemical gel or paste; with a chemical or gel paste.
- .2 Remove lead based paint in small sections and pack as it is being removed in sealable 6 mm plastic bags and place in labelled containers for transport.
- .3 Seal filled containers. Clean external surfaces thoroughly by wet sponging. Remove from immediate working area to staging area. Clean external surfaces thoroughly again by wet sponging. Wash containers thoroughly pending removal to outside. Ensure containers are removed by workers who have entered from uncontaminated areas dressed in clean coveralls.



- .4 After completion of stripping work, wire brush and wet wipe all surfaces in the work area. During this work keep surfaces wet.
- .5 Apply lead encapsulating sealer to all surfaces within the work area, and equipment used in process. After inspection by the Department Representative, the work area can be turned over to unprotected workers.

### **3.5 LEAD ABATEMENT USING GENERAL DEMOLITION OR HEPA-EQUIPPED POWER TOOLS**

- .1 Build airlocks at entrances and exits from work areas to ensure work areas are always closed off by one curtained doorway when workers enter or exit.
- .2 Where water application is required for wetting lead containing materials, provide temporary water supply by use of appropriately sized hoses for application of water as required.
- .3 Provide electrical power and shut off for operation of powered tools and equipment. Provide 24 volt safety lighting and ground fault interrupter circuits on power source for electrical tools, in accordance with applicable CSA Standard. Ensure safe installation of electrical lines and equipment.
- .4 Construct a Worker Decontamination Enclosure System that includes Equipment and Access Room and Clean Room, as follows:
  - .1 Equipment and Access Room: construct between exit and work areas, with two curtained doorways, one to the rest of suite, and one to work area. Install waste receptor and storage facilities for workers' shoes and protective clothing to be re-worn in work areas. Build large enough to accommodate specified facilities, equipment needed, and at least one worker allowing sufficient space to change comfortably.
  - .2 Clean Room: construct with curtained doorway to outside of enclosures. Provide lockers or hangers and hooks for workers' street clothes and personal belongings. Provide storage for clean protective clothing and respiratory equipment. Install mirror to permit workers to fit respiratory equipment properly.
- .5 Construct Decontamination Enclosures:
  - .1 Construct framing for enclosures or use existing rooms. Line enclosure with polyethylene sheeting and seal with tape, apply two layers of FR polyethylene on floor.
  - .2 Construct curtain doorways between enclosures so when people move through or waste containers and equipment are moved through doorway, one of two closures comprising doorway always remains closed.
- .6 Separation of Work Areas from Occupied Areas
  - .1 Construct barriers between work area and occupied areas. Barriers to be covered in poly and sealed with tape to prevent dust transfer.
- .7 Maintenance of Enclosures:



- .1 Maintain enclosures in clean condition.
- .2 Ensure barriers and polyethylene linings are effectively sealed and taped. Repair damaged barriers and remedy defects immediately.
- .3 Visually inspect enclosures at beginning of each work day.
- .8 Manual demolition of lead-painted walls or building components by scoring the wall first with a hand tool, or using a HEPA-equipped power tool.
- .9 Remove lead based paint and debris in small sections by removing sections manually or by striking the scored section with an appropriate hand tool and pack as it is being removed in sealable 6 mil plastic bags and place in labelled containers for transport.
- .10 Seal filled containers. Clean external surfaces thoroughly by wet sponging. Remove from immediate working area to Staging Area. Clean external surfaces thoroughly again by wet sponging before moving containers to decontamination Washroom. Wash containers thoroughly in decontamination Washroom, and store in Holding Room pending removal to Unloading Room and outside. Ensure containers are removed from Holding Room by workers who have entered from uncontaminated areas dressed in clean coveralls.
- .11 After removal is completed, wet clean work area including equipment and access room, and equipment used in process. After inspection by the Department Representative, apply continuous coat of sealer to surfaces. Do not disturb work for drying period with no entry, activity, ventilation or disturbance during this period.

### **3.6 INSPECTION**

- .1 Perform inspection to confirm compliance with specification and governing authority requirements. Deviations from these requirements not approved in writing by the Department Representative will result in work stoppage, at no cost to Owner.
- .2 The Department Representative will inspect work for:
  - .1 Adherence to specific procedures and materials.
  - .2 Final cleanliness and completion.
  - .3 No additional costs will be allowed by Contractor for additional labour or materials required to provide specified performance level.

### **3.7 FINAL CLEANUP**

- .1 When the Department Representative has passed the inspection for final cleanliness in the work area, proceed with final cleanup.
- .2 Remove polyethylene sheet by rolling it away from walls to centre of work area. Vacuum visible lead containing particles observed during cleanup, immediately, using HEPA vacuum.
- .3 Place polyethylene sheets, tape, cleaning material, clothing, and contaminated waste in plastic bags and sealed labelled waste containers for transport.



- .4 Conduct final check to ensure no dust or debris remains on surfaces as result of dismantling operations.

### **3.8 TRANSPORTATION AND PERMANENT DISPOSAL**

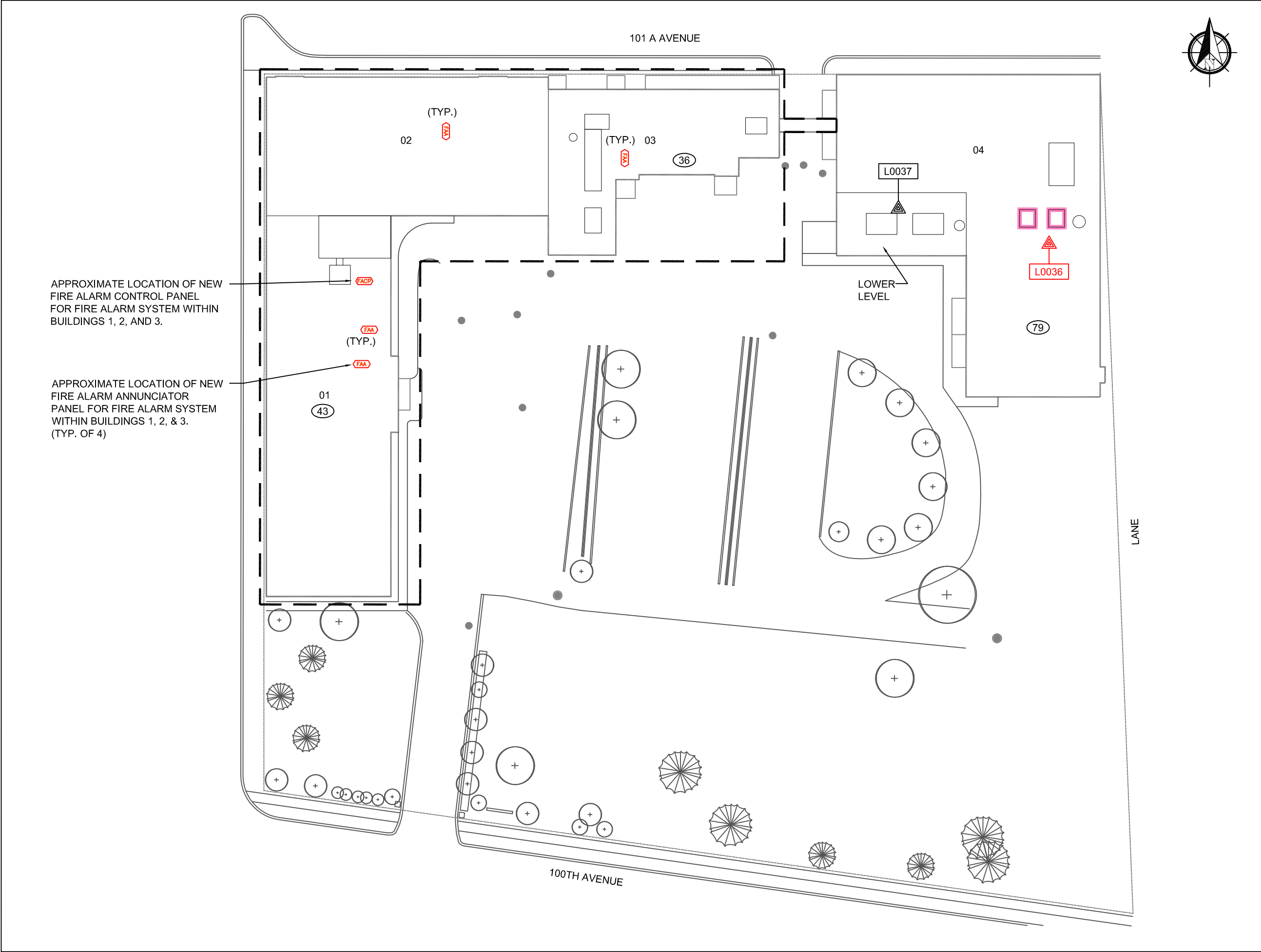
- .1 Transport waste lead waste in accordance with the Provincial and Federal legislation and regulations.
- .2 Ensure that all materials are properly packaged and labeled prior to transportation.
- .3 Transport hazardous waste materials in properly placarded vehicles.
- .4 Each load shall be accompanied by a properly completed Transportation of Dangerous Goods Regulation (TDGR) Waste Manifest.

### **3.9 RE-ESTABLISHMENT OF OBJECTS AND SYSTEMS**

- .1 Repair or replace objects damaged in course of work to their original state or better, as directed by the Departmental Representative, Engineer and/or Department Representative.

**END OF SECTION**





- LEGEND:
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - ▲ POSITIVE LEAD SAMPLE LOCATION
  - FAA FIRE ALARM ANNUNCIATOR
  - FACP FIRE ALARM CONTROL PANEL
  - L0036 BLACK PAINT

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
EXTERIOR  
CONSTRUCTION & DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

CS

DRAWING:

CHECKED BY:

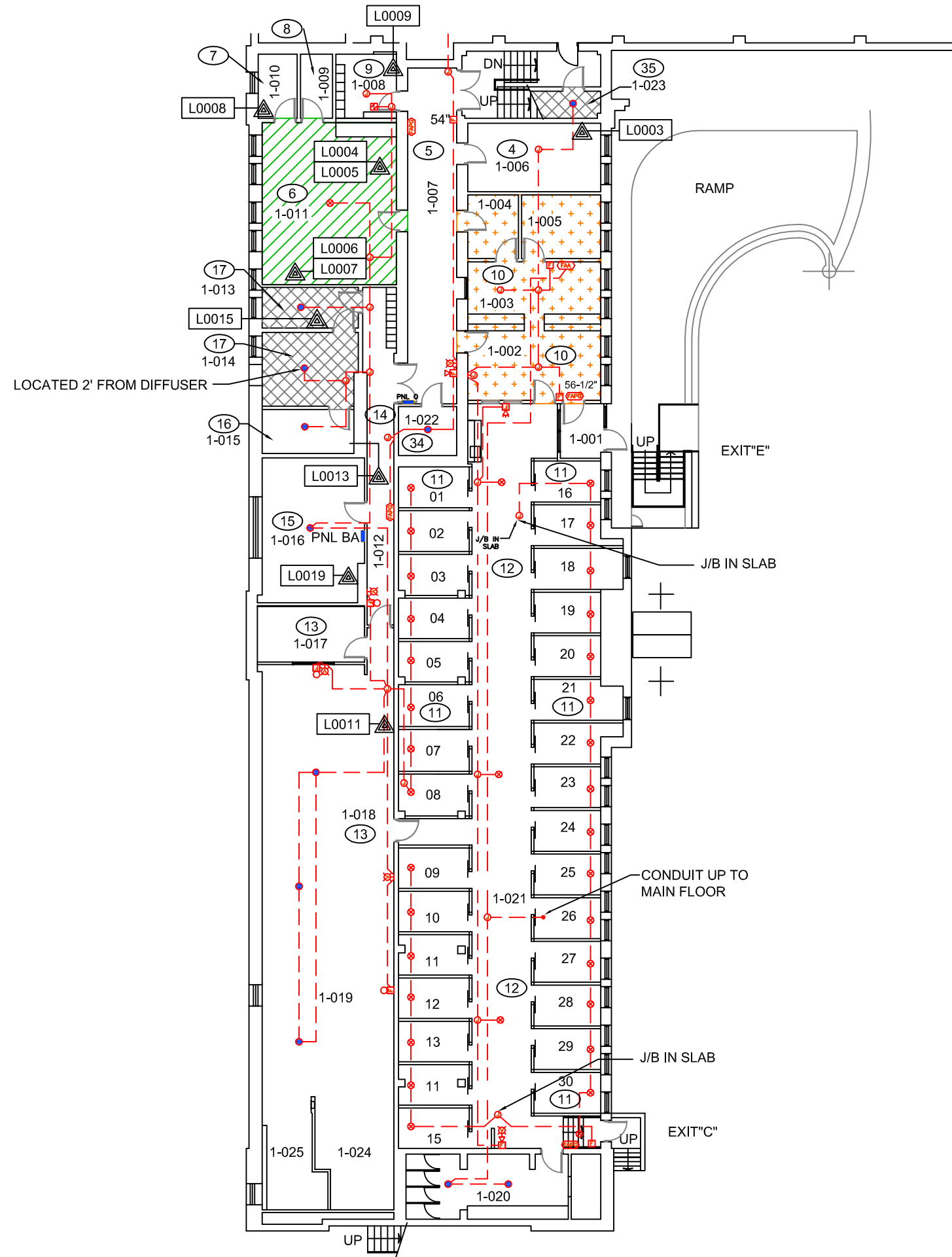
SM

SCALE:

NTS

1 OF 25





- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - ⊗ SMOKE DETECTOR
  - HEAT DETECTOR - FIXED TEMPERATURE
  - 🔔 FIRE ALARM BELL
  - 🔊 FIRE ALARM BELL WITH VISUAL ALARM
  - 📢 FIRE ALARM HORN
  - 📺 VISUAL ALARM - WALL MOUNTED
  - 📺 VISUAL ALARM - CEILING MOUNTED
  - ⏏ END OF LINE RESISTOR
  - 🖼️ FIRE ALARM PASSIVE GRAPHIC
  - Ⓜ JUNCTION BOX
  - ++++ L0018 OFFWHITE
  - ▨ L0005 MINT WITH WHITE
  - ▩ L0015 DIRTY WHITE

- NOTES:**
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  - BASE PLAN PROVIDED BY CLIENT.

**CLIENT:**  
CORRECTIONAL SERVICE CANADA

**LOCATION:**  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

**TITLE:**  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
BASEMENT DEMOLITION

**DATE:** 2018/09/13  
**PROJECT # :** 212257

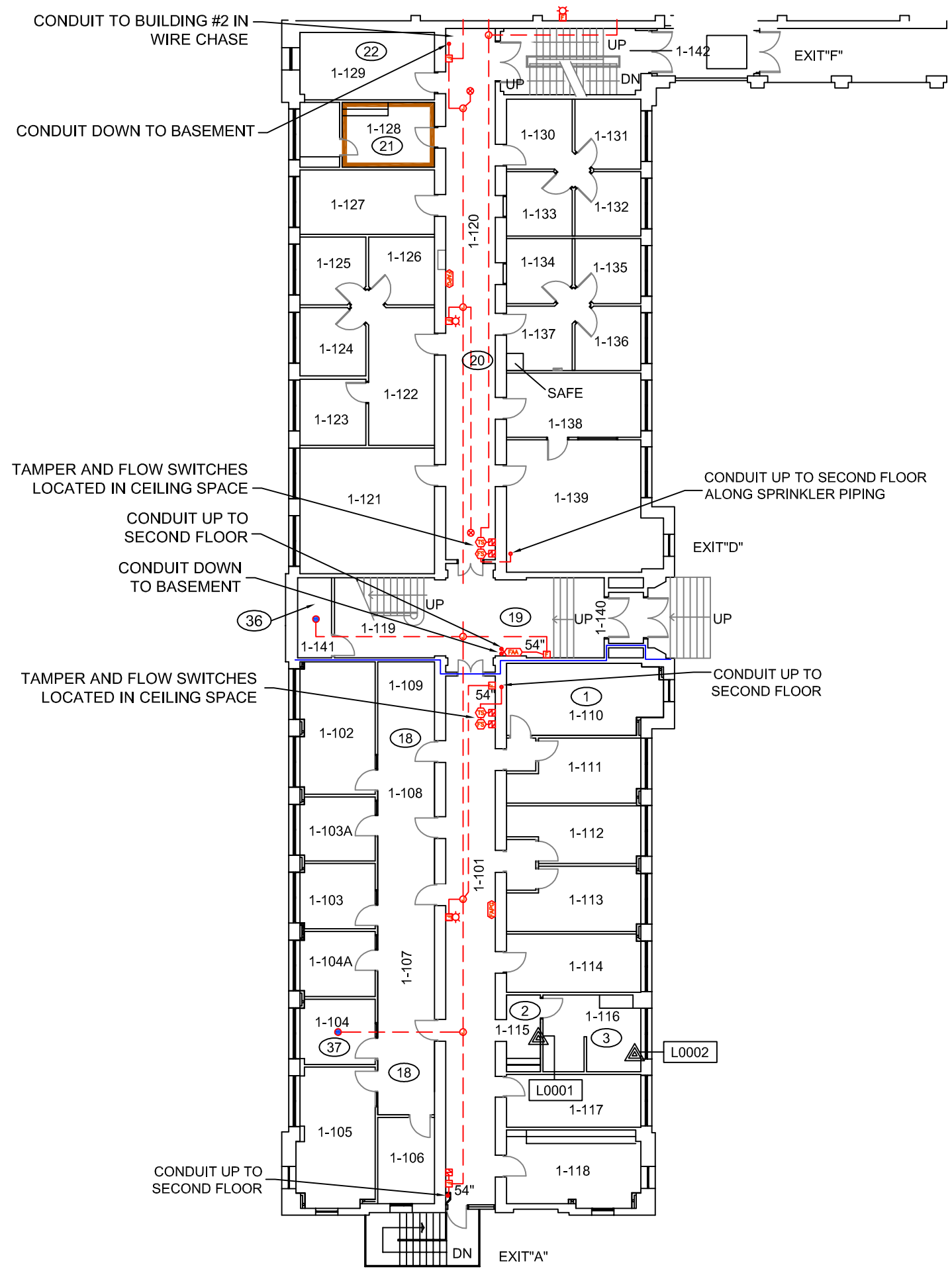
**DRAWN BY:** CS  
**DRAWING:**

**CHECKED BY:** SM  
**2 OF 25**

**SCALE:** NTS

- ROOM LEGEND:**
- 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





ROOM LEGEND

- 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
- 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

LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- ☐ MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- HEAT DETECTOR - FIXED TEMPERATURE
- 🔔 FIRE ALARM BELL
- 🔔 FIRE ALARM BELL WITH VISUAL ALARM
- ⏏ END OF LINE RESISTOR
- ⚡ TAMPER SWITCH
- ⚡ FLOW SWITCH
- 🖼️ FIRE ALARM PASSIVE GRAPHIC
- 🔊 FIRE ALARM ANNUNCIATOR
- 🔌 JUNCTION BOX
- 🎨 L0017 BROWN PAINT

- NOTES:
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  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
GROUND FLOOR DEMOLITION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>CS     | DRAWING:<br><br>3 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |





ROOM LEGEND

|       |                   |
|-------|-------------------|
| 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          |



LEGEND:

|         |                                   |
|---------|-----------------------------------|
| (X)     | LOCATION NUMBER                   |
| (A)     | LEAD SAMPLE LOCATION              |
| (F)     | MANUAL FIRE ALARM PULL STATION    |
| (S)     | SMOKE DETECTOR                    |
| (H)     | HEAT DETECTOR - FIXED TEMPERATURE |
| (S)     | SMOKE DETECTOR C/W LOCAL ALARM    |
| (B)     | FIRE ALARM BELL                   |
| (B)     | FIRE ALARM BELL WITH VISUAL ALARM |
| (V)     | VISUAL ALARM - WALL MOUNTED       |
| (R)     | END OF LINE RESISTOR              |
| (T)     | TAMPER SWITCH                     |
| (F)     | FLOW SWITCH                       |
| (FAPG)  | FIRE ALARM PASSIVE GRAPHIC        |
| (FAA)   | FIRE ALARM ANNUNCIATOR            |
| (J)     | JUNCTION BOX                      |
| (L0017) | L0017 BROWN PAINT                 |

- NOTES:
1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
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  3. BASE PLAN PROVIDED BY CLIENT.

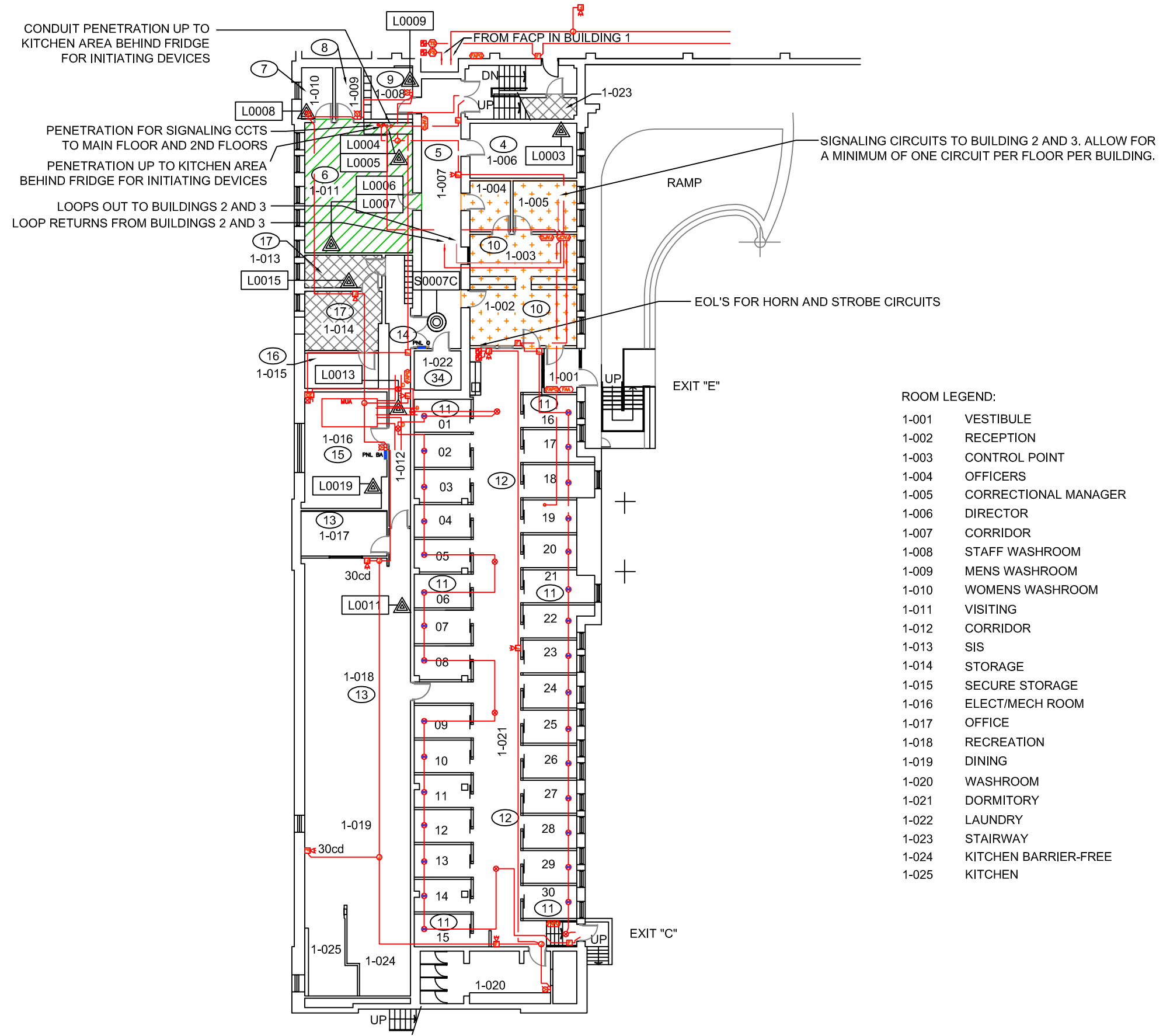
CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
SECOND FLOOR DEMOLITION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>CS     | DRAWING:<br><br>4 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |





- LEGEND:**
- (X) LOCATION NUMBER
  - △ LEAD SAMPLE LOCATION
  - ⊞ MANUAL FIRE ALARM PULL STATION
  - ⊞ SMOKE DETECTOR
  - ⊞ SMOKE DETECTOR C/W LOCAL ALARM
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ⊞ FIRE ALARM BELL
  - ⊞ FIRE ALARM BELL WITH VISUAL ALARM
  - ⊞ FIRE ALARM HORN
  - ⊞ VISUAL ALARM - WALL MOUNTED
  - ⊞ VISUAL ALARM - CEILING MOUNTED
  - ⊞ END OF LINE RESISTOR
  - ⊞ FIRE ALARM PASSIVE GRAPHIC
  - ⊞ FIRE ALARM CONTROL PANEL
  - ⊞ FIRE ALARM ANNUNCIATOR
  - ⊞ JUNCTION BOX
  - +++ L0018 OFFWHITE
  - /// L0005 MINT WITH WHITE
  - ⊞ L0015 DIRTY WHITE

- NOTES:**
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
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**CLIENT:**  
CORRECTIONAL SERVICE CANADA

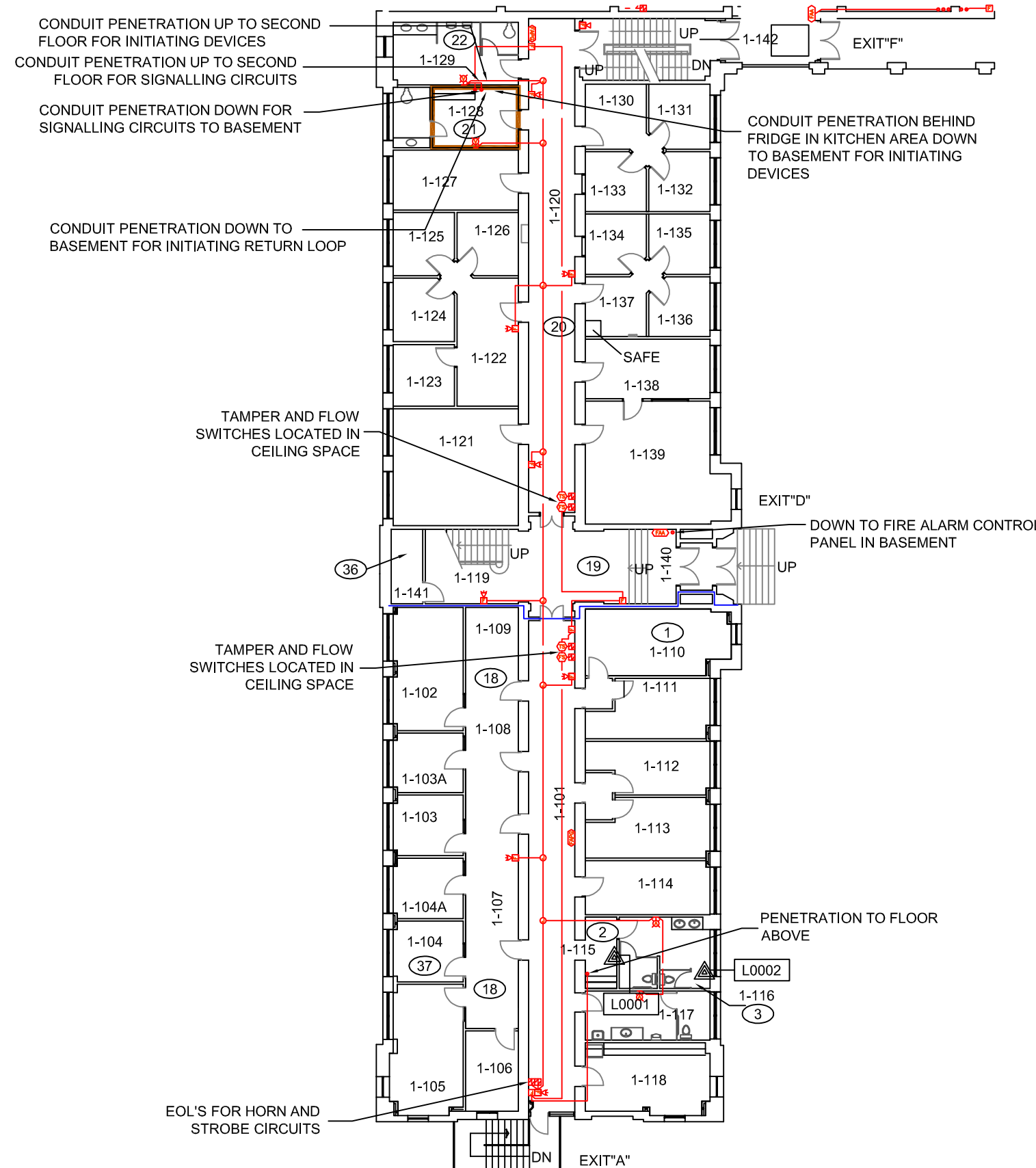
**LOCATION:**  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

**TITLE:**  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
BASEMENT CONSTRUCTION

|                     |                                |
|---------------------|--------------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257          |
| DRAWN BY:<br>CS     | DRAWING:<br><br><b>5 OF 25</b> |
| CHECKED BY:<br>SM   |                                |
| SCALE:<br>NTS       |                                |

- ROOM LEGEND:**
- 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





ROOM LEGEND

|       |                     |
|-------|---------------------|
| 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            |

LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- 🔔 FIRE ALARM BELL
- 🔊 FIRE ALARM BELL WITH VISUAL ALARM
- 📢 FIRE ALARM HORN
- 📢 VISUAL ALARM - WALL MOUNTED
- 📢 VISUAL ALARM - CEILING MOUNTED
- ⏏ END OF LINE RESISTOR
- 🔍 TAMPER SWITCH
- 🔍 FLOW SWITCH
- 📄 FIRE ALARM PASSIVE GRAPHIC
- 📄 FIRE ALARM ANNUNCIATOR
- ⦿ JUNCTION BOX
- 📄 L0017 BROWN PAINT

- NOTES:
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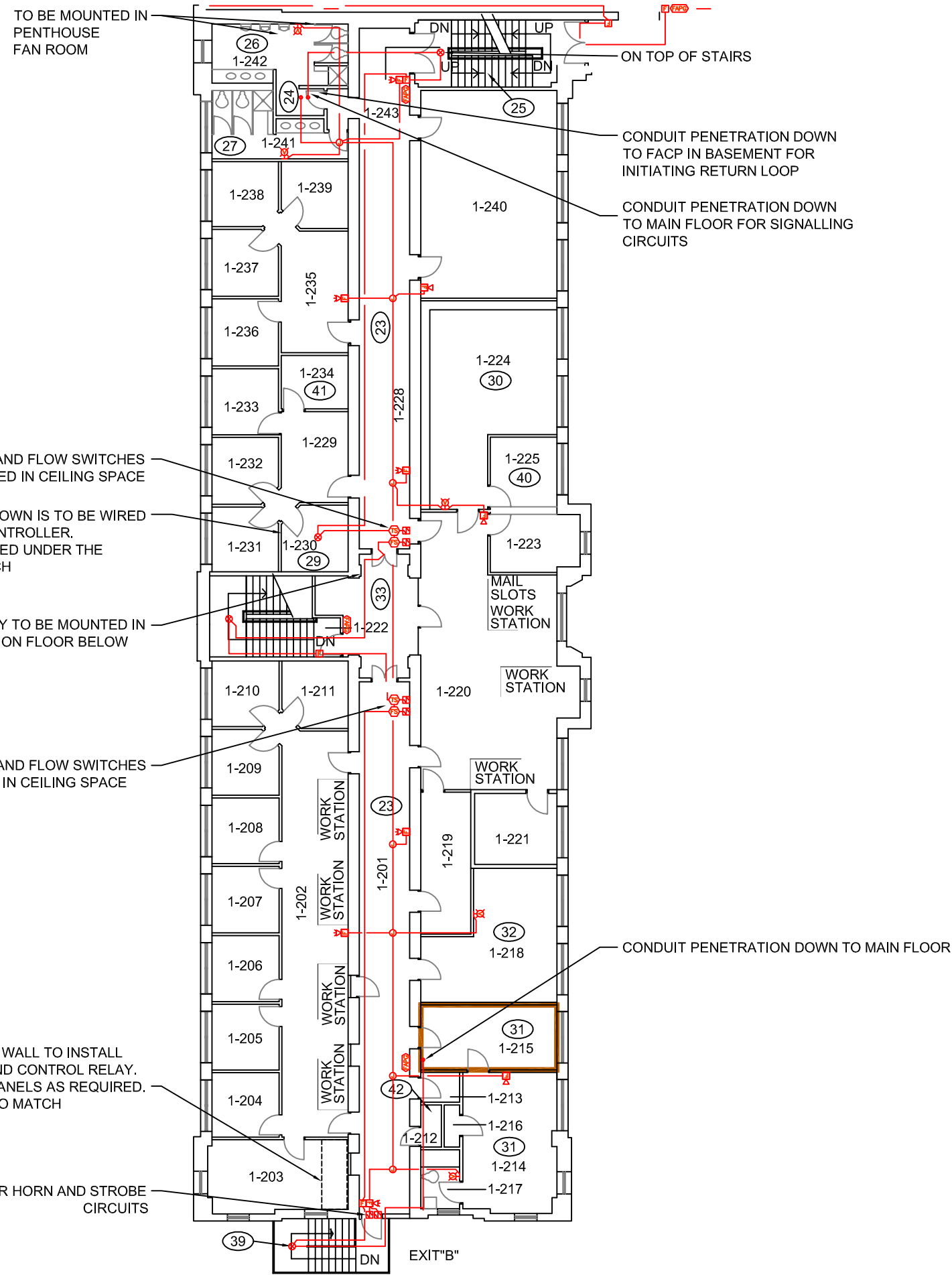
CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
GROUND FLOOR CONSTRUCTION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>CS     | DRAWING:<br><br>6 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |





ROOM LEGEND

|       |                   |
|-------|-------------------|
| 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          |

LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- FIRE ALARM BELL
- FIRE ALARM BELL WITH VISUAL ALARM
- FIRE ALARM HORN
- ⊗ VISUAL ALARM - WALL MOUNTED
- ⊗ VISUAL ALARM - CEILING MOUNTED
- END OF LINE RESISTOR
- ⊗ TAMPER SWITCH
- ⊗ FLOW SWITCH
- ⊗ FIRE ALARM PASSIVE GRAPHIC
- ⊗ FIRE ALARM ANNUNCIATOR
- ⊗ JUNCTION BOX
- L0017 BROWN PAINT

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CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 1  
SECOND FLOOR CONSTRUCTION

|                     |                         |
|---------------------|-------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257   |
| DRAWN BY:<br>CS     | DRAWING:<br><br>7 OF 25 |
| CHECKED BY:<br>SM   |                         |
| SCALE:<br>NTS       |                         |





LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- HEAT DETECTOR - FIXED TEMPERATURE
- [E] END OF LINE RESISTOR
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [FAPG] FIRE ALARM PASSIVE GRAPHIC
- [FAA] FIRE ALARM ANNUNCIATOR
- Ⓜ JUNCTION BOX

NOTES:

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- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 2  
BASEMENT DEMOLITION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

CS

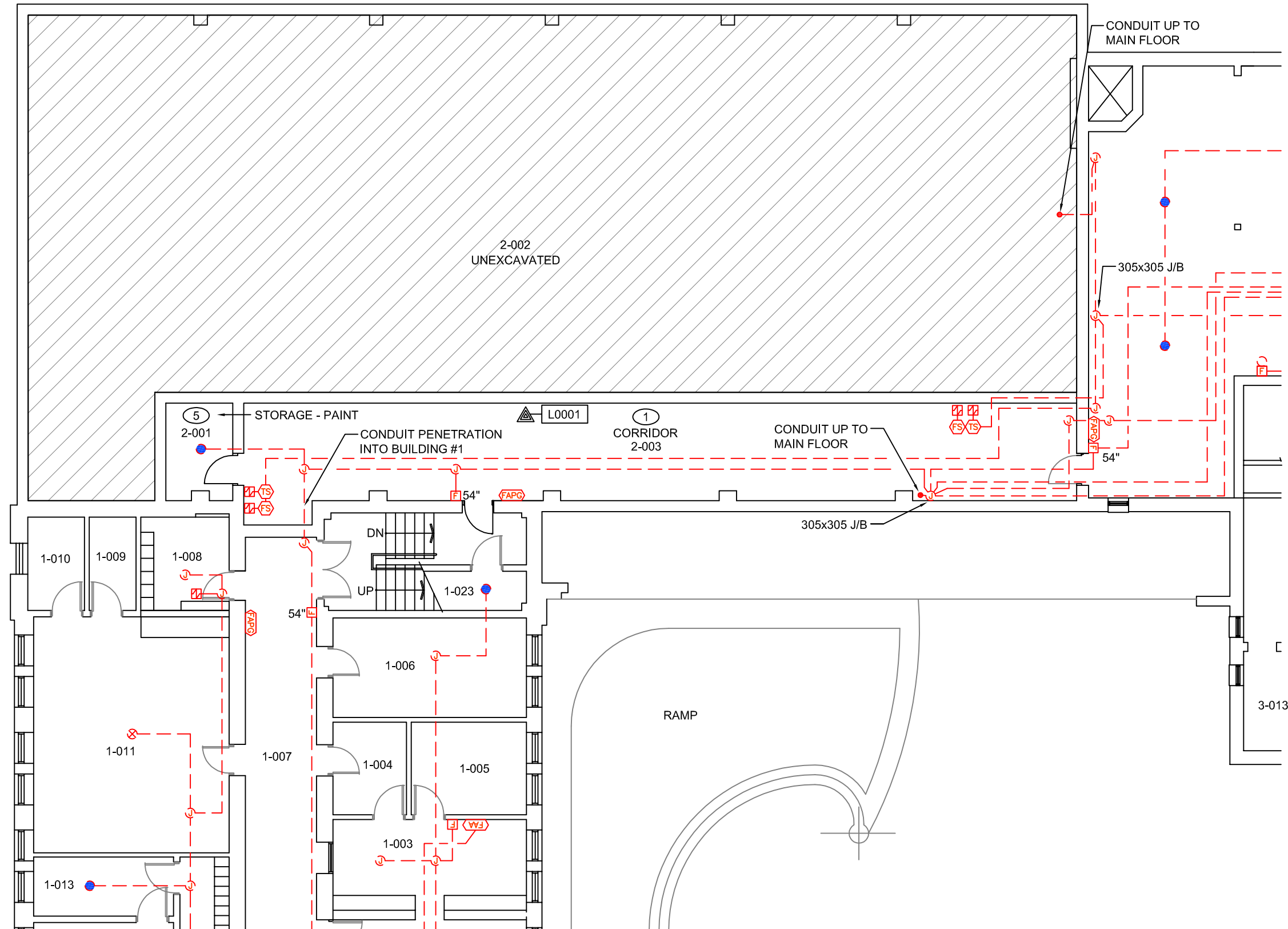
CHECKED BY:

SM

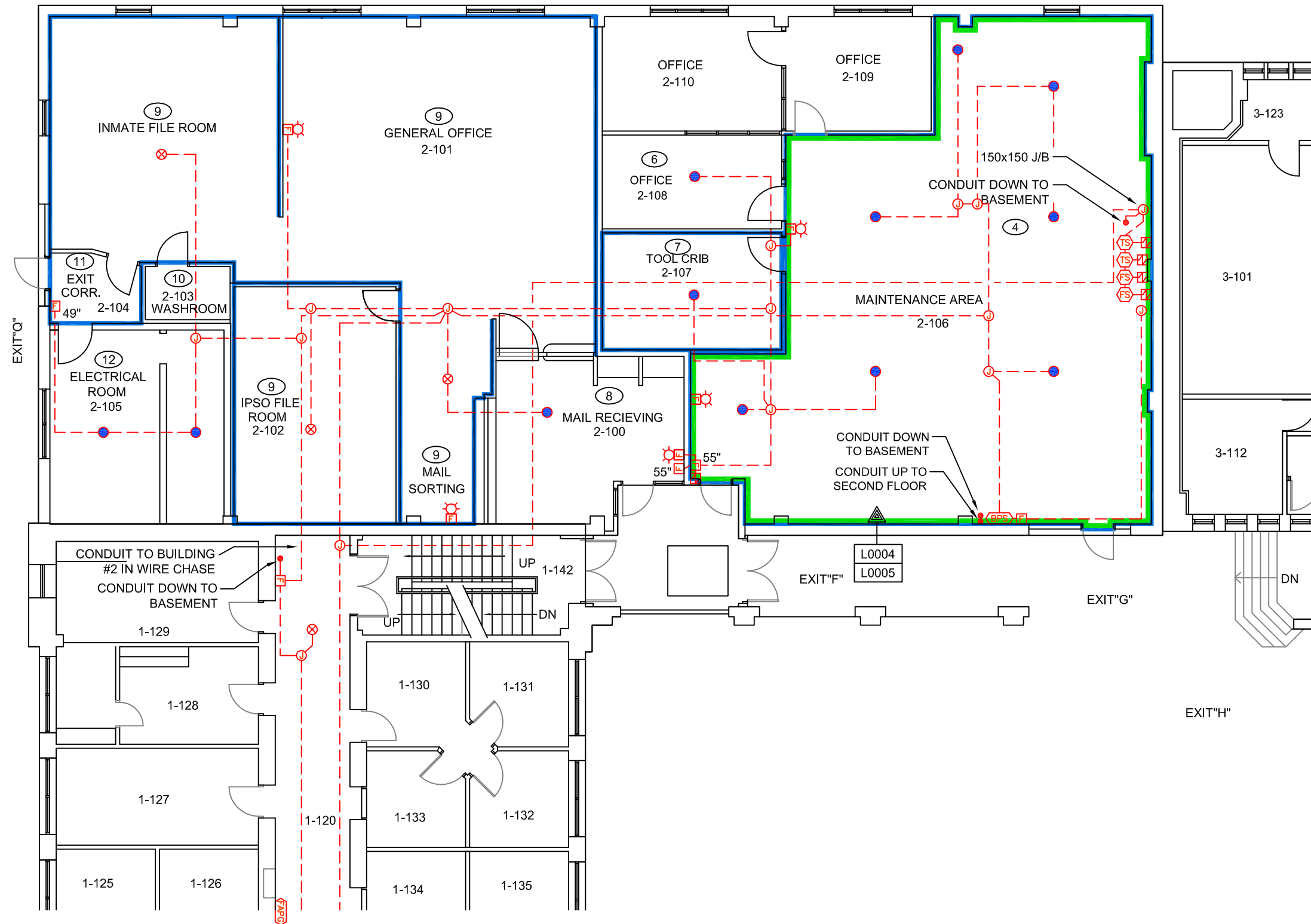
SCALE:

NTS

8 OF 25







#### LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- ⊗ SMOKE DETECTOR
- HEAT DETECTOR - FIXED TEMPERATURE
- ⊕ FIRE ALARM BELL WITH VISUAL ALARM
- END OF LINE RESISTOR
- ⊕ FLOW SWITCH
- ⊕ TAMPER SWITCH
- ⊕ FIRE ALARM PASSIVE GRAPHIC
- ⊕ JUNCTION BOX
- L0004 OFFWHITE
- L0005 GLOSSY WHITE

#### NOTES:

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#### CLIENT:

CORRECTIONAL SERVICE CANADA

#### LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

#### TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 2  
GROUND FLOOR DEMOLITION

#### DATE:

2018/09/13

#### PROJECT #:

212257

#### DRAWN BY:

CS

#### CHECKED BY:

SM

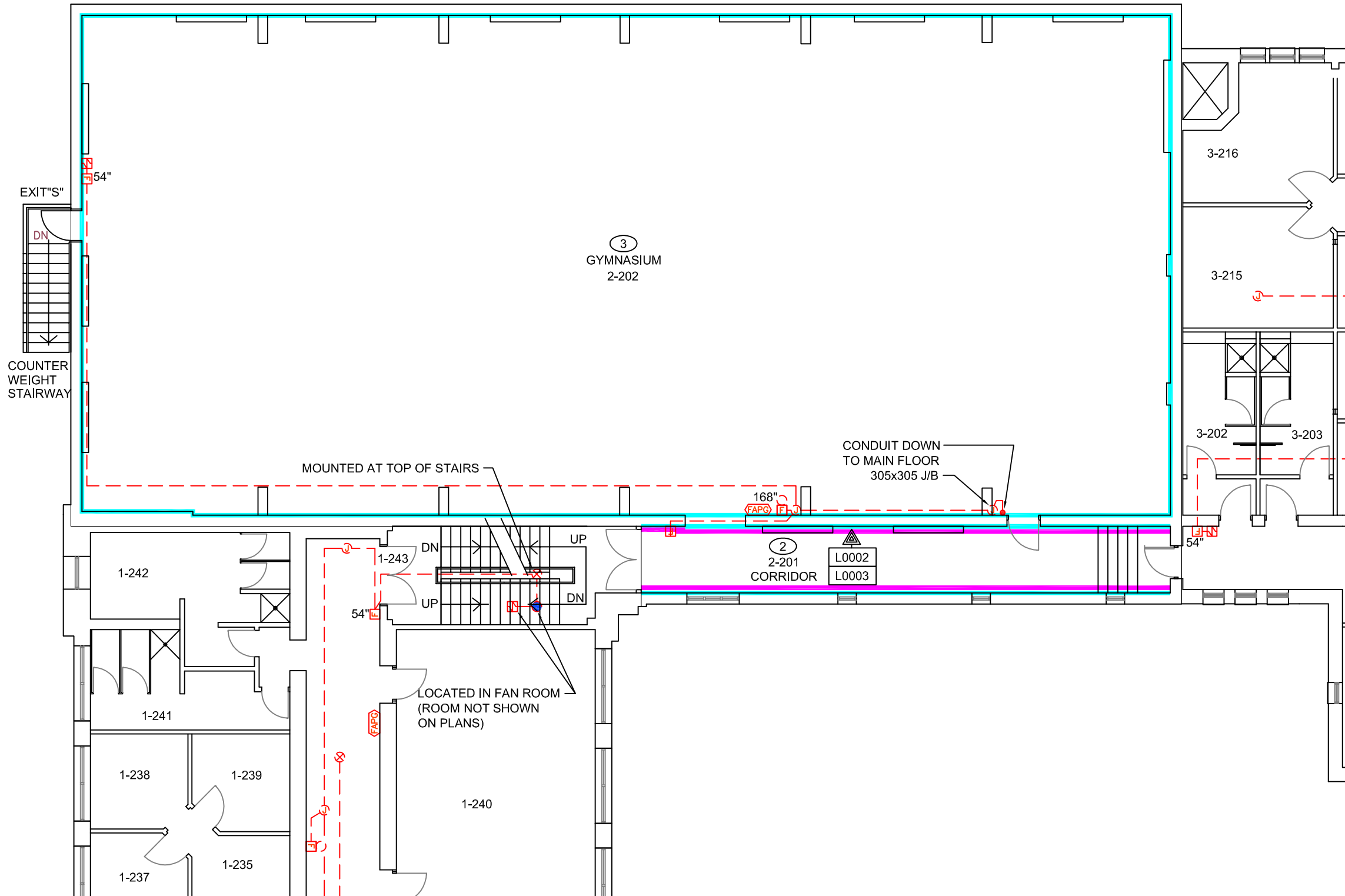
#### SCALE:

NTS

#### DRAWING:

9 OF 25





- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - ☐ MANUAL FIRE ALARM PULL STATION
  - ⊗ SMOKE DETECTOR
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ☐ FIRE ALARM BELL
  - ☐ END OF LINE RESISTOR
  - ☐ FIRE ALARM PASSIVE GRAPHIC
  - Ⓜ JUNCTION BOX
  - L0002 LIGHT GREY PAINT
  - L003 WHITE WITH GREY PAINT
- NOTES:**
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

|  |                          |
|--|--------------------------|
| CLIENT:<br>CORRECTIONAL SERVICE CANADA   |                          |
| LOCATION:<br>GRIERSON INSTITUTION<br>9530 - 101 AVENUE NW<br>EDMONTON, ALBERTA         |                          |
| TITLE:<br>SECTION 02 83 00 LEAD PAINT REMOVAL<br>BUILDING 2<br>SECOND FLOOR DEMOLITION |                          |
| DATE:<br>2018/09/13  | PROJECT # :<br>212257    |
| DRAWN BY:<br>CS  | DRAWING:<br><br>10 OF 25 |
| CHECKED BY:<br>SM  |                          |
| SCALE:<br>NTS  |                          |





LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- MANUAL FIRE ALARM PULL STATION
- FIRE ALARM HORN WITH VISUAL ALARM
- VISUAL ALARM - WALL MOUNTED
- END OF LINE RESISTOR
- FIRE ALARM MONITORING ELEMENT
- FIRE ALARM CONTROL RELAY
- FLOW SWITCH
- TAMPER SWITCH
- FIRE ALARM PASSIVE GRAPHIC
- JUNCTION BOX

NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
- LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 2  
BASEMENT CONSTRUCTION

DATE:

2018/09/13

PROJECT # :

212257

DRAWN BY:

CS

CHECKED BY:

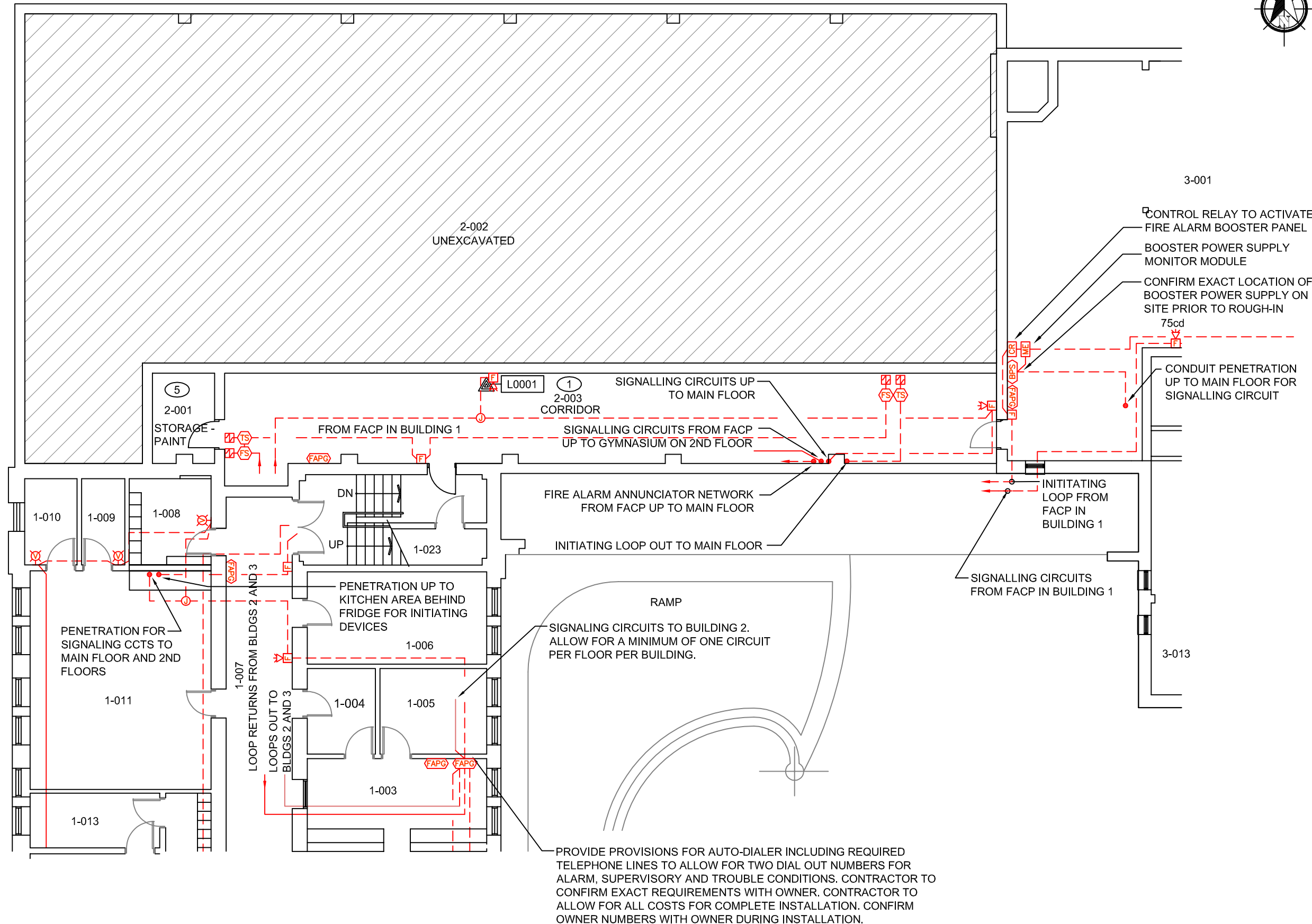
SM

SCALE:

NTS















11 OF 25

PA2018090227







- |   |                                   |
|---|-----------------------------------|
|  | LOCATION NUMBER                   |
|  | LEAD SAMPLE LOCATION              |
|  | MANUAL FIRE ALARM PULL STATION    |
|  | SMOKE DETECTOR                    |
|  | FIRE ALARM HORN WITH VISUAL ALARM |
|  | VISUAL ALARM - WALL MOUNTED       |
|  | END OF LINE RESISTOR              |
|  | FLOW SWITCH                       |
|  | TAMPER SWITCH                     |
|  | FIRE ALARM PASSIVE GRAPHIC        |
|  | FIRE ALARM ANNUNCIATOR            |
|  | JUNCTION BOX                      |
|  | L0004 OFFWHITE                    |
|  | L0005 GLOSSY WHITE                |

NOTES:

1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 2  
GROUND FLOOR CONSTRUCTION

DATE:

2018/09/13

|             |
|-------------|
| PROJECT # : |
|-------------|

212257

DRAWN BY:

CS

DRAWING:

CHECKED BY:

SM



SCALE:

NTS

12 OF 25





- |   |                             |
|---|-----------------------------|
|  | L0002 LIGHT GREY PAINT      |
|  | L0003 WHITE WITH GREY PAINT |

- CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

|  |
|--|
| TITLE:<br>SECTION 02 83 00 LEAD PAINT REMOVAL<br>BUILDING 2<br>SECOND FLOOR CONSTRUCTION |
|--|

DATE: 2018/09/13

DRAWN BY: CS

CHECKED BY:

SM

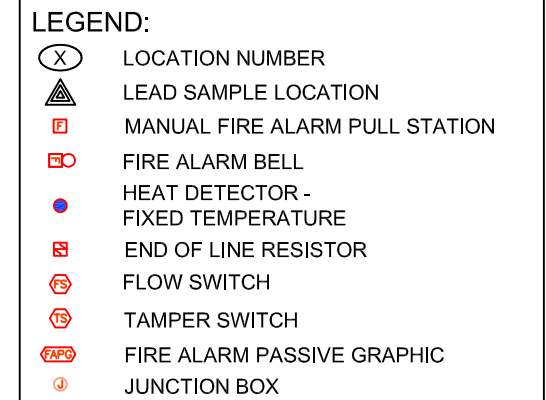
SCALE: NTS





|             |        |
|-------------|--------|
| PROJECT # : | 212257 |
|-------------|--------|

DRAWING:

13 OF 25





|   |                                     |
|---|-------------------------------------|
|  | L0001 LIGHT GREY PAINT              |
|  | L0006 MINT WITH BEGINE PAINT        |
|  | L0015 OFFWHITE WITH TAN BACK PAINT  |
|  | L0007 LIGHT BROWN WITH BEGINE PAINT |

NOTES:

1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

|  |
|--|
| TITLE:<br>SECTION 02 83 00 LEAD PAINT REMOVAL<br>BUILDING 3<br>BASEMENT DEMOLITION |
|--|

|            |             |
|------------|-------------|
| DATE:      | PROJECT # : |
| 2018/09/13 | 212257      |

|           |          |
|-----------|----------|
| DRAWN BY: | DRAWING: |
| CS        |          |

CHECKED BY: SM

|        |  |
|--------|--|
| SCALE: |  |
| NTS    |  |





LEGEND:

- (X) LOCATION NUMBER
- ▲ LEAD SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- [S] SMOKE DETECTOR C/W LOCAL ALARM
- [B] FIRE ALARM BELL WITH VISUAL ALARM
- [R] END OF LINE RESISTOR
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [FAPG] FIRE ALARM PASSIVE GRAPHIC
- [J] JUNCTION BOX
- [Yellow Box] L0009 MINT WITH BURGHUNDY PAINT

NOTES:

- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
- LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
- BASE PLAN PROVIDED BY CLIENT.

CLIENT:

CORRECTIONAL SERVICE CANADA

LOCATION:

GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:

SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 3  
GROUND FLOOR DEMOLITION

DATE:

2018/09/13

PROJECT #:

212257

DRAWN BY:

CS

CHECKED BY:

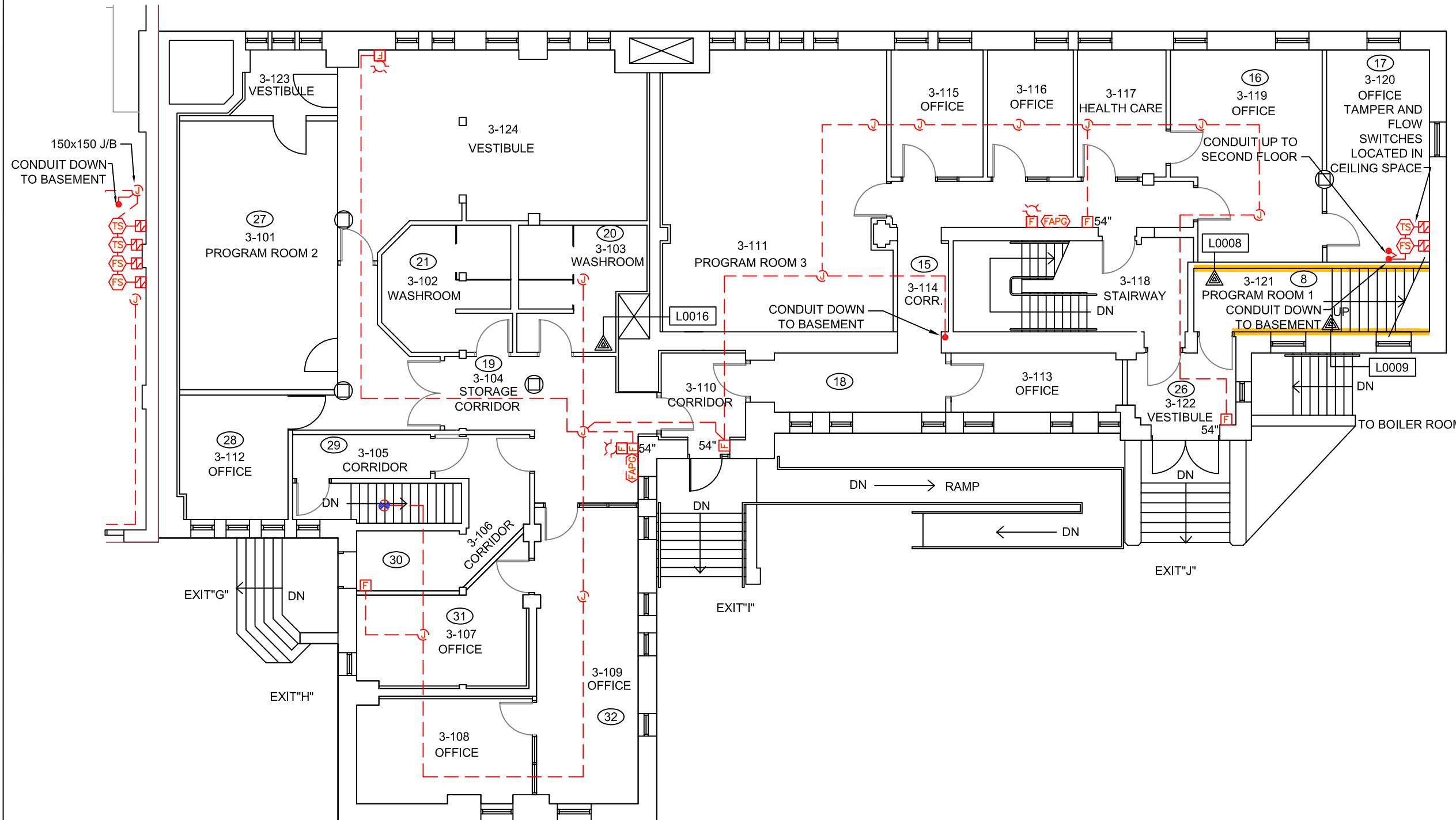
SM

SCALE:

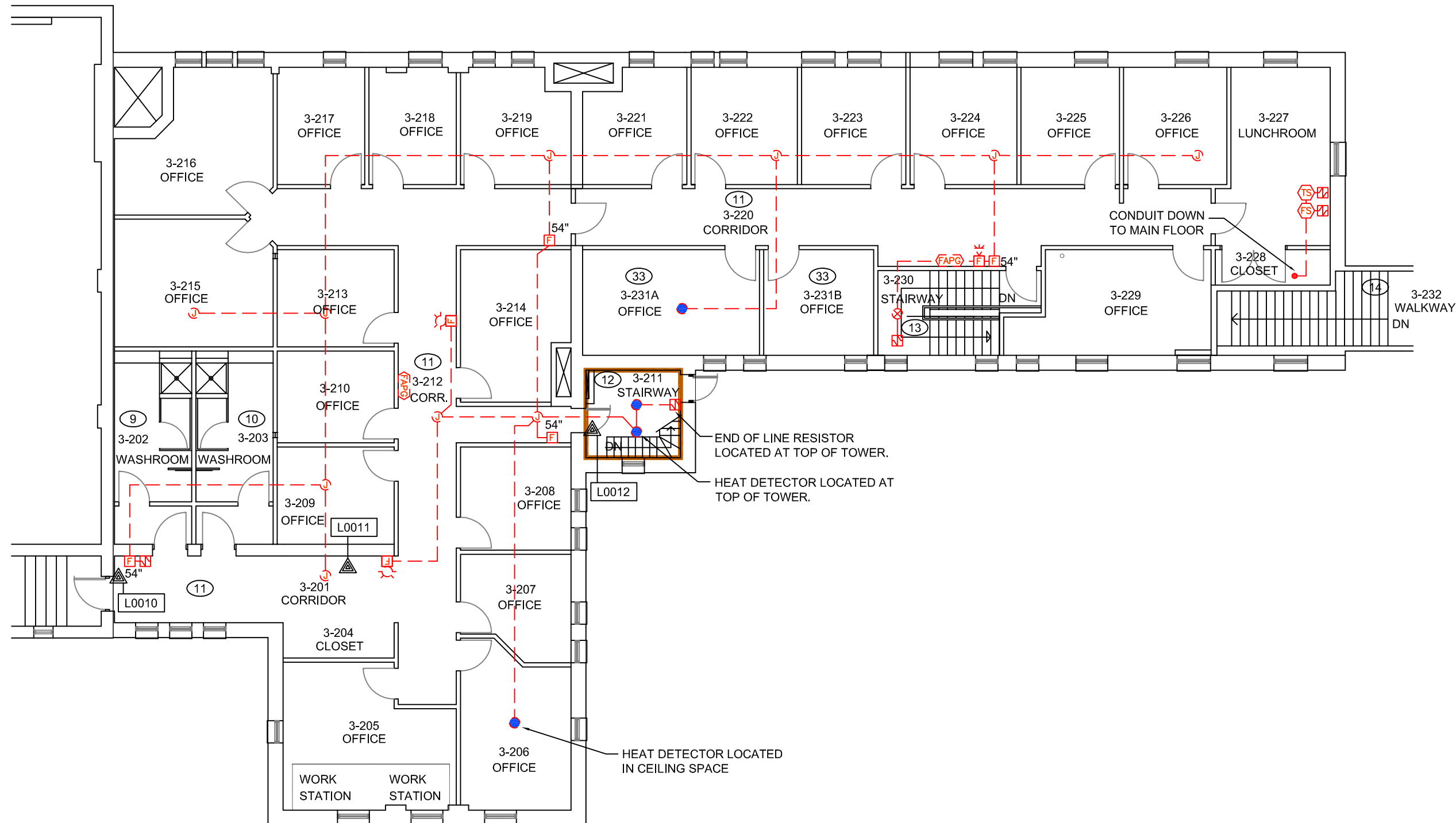
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15 OF 25

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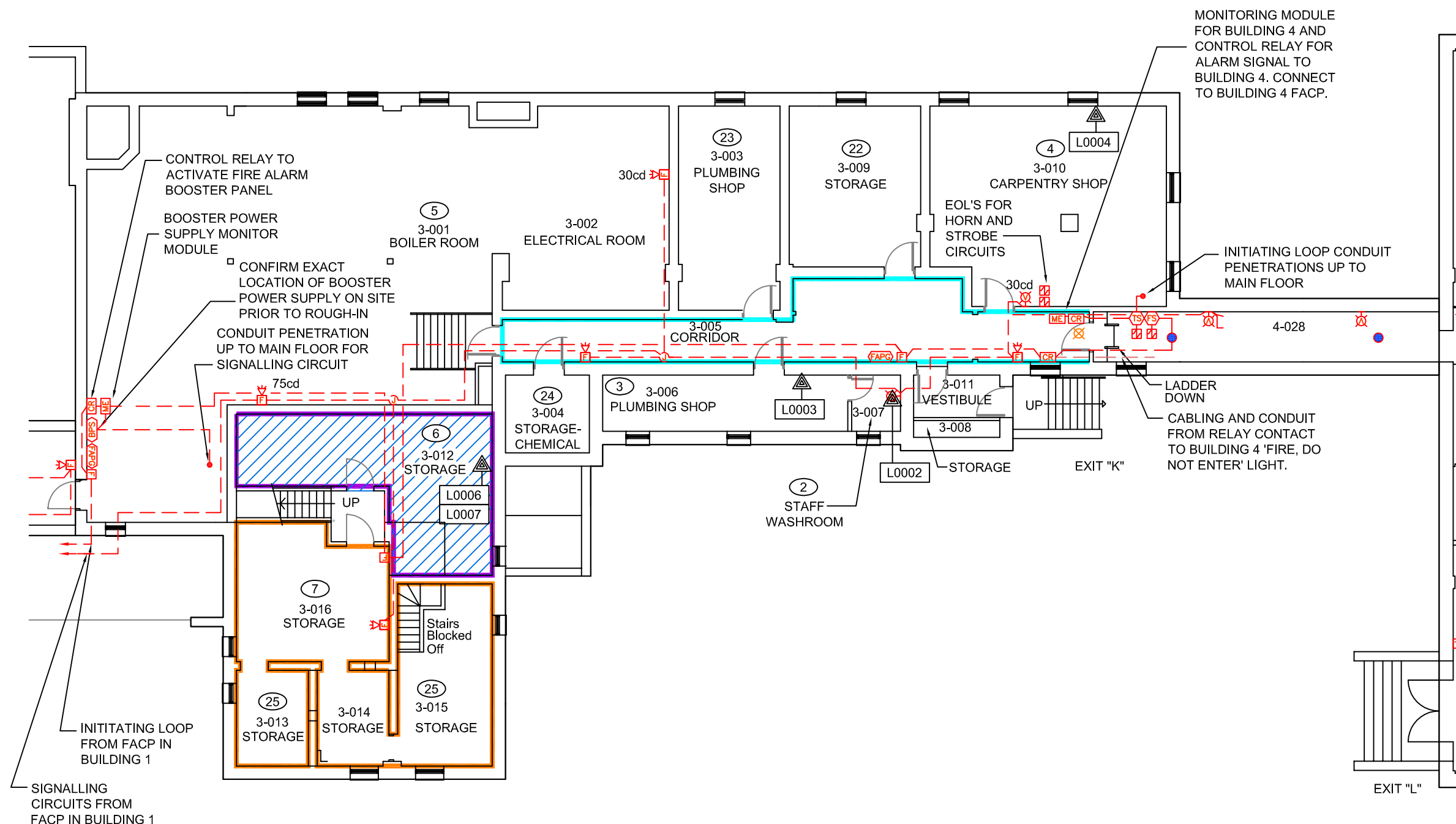


- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ⊗ SMOKE DETECTOR
  - ⊞ END OF LINE RESISTOR
  - 🔔 FIRE ALARM BELL WITH VISUAL ALARM
  - 📢 FIRE ALARM HORN WITH VISUAL ALARM
  - Ⓢ FLOW SWITCH
  - Ⓣ TAMPER SWITCH
  - 🖼️ FIRE ALARM PASSIVE GRAPHIC
  - Ⓜ JUNCTION BOX
  - 🟫 L0012 BROWN PAINT

- NOTES:**
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

|  |                          |
|--|--------------------------|
| CLIENT:<br>CORRECTIONAL SERVICE CANADA   |                          |
| LOCATION:<br>GRIERSON INSTITUTION<br>9530 - 101 AVENUE NW<br>EDMONTON, ALBERTA         |                          |
| TITLE:<br>SECTION 02 83 00 LEAD PAINT REMOVAL<br>BUILDING 3<br>SECOND FLOOR DEMOLITION |                          |
| DATE:<br>2018/09/13  | PROJECT # :<br>212257    |
| DRAWN BY:<br>CS  | DRAWING:<br><br>16 OF 25 |
| CHECKED BY:<br>SM  |                          |
| SCALE:<br>NTS  |                          |





LEGEND:

- (X) LOCATION NUMBER
- △ LEAD SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- HEAT DETECTOR - FIXED TEMPERATURE
- [R] END OF LINE RESISTOR
- [H] FIRE ALARM HORN WITH VISUAL ALARM
- [H] VISUAL ALARM - WALL MOUNTED
- [ME] FIRE ALARM MONITORING ELEMENT
- [CR] FIRE ALARM CONTROL RELAY
- [FS] FLOW SWITCH
- [TS] TAMPER SWITCH
- [BPS] FIRE ALARM BOOSTER POWER SUPPLY
- [FAPG] FIRE ALARM PASSIVE GRAPHIC CEILING MOUNTED 'FIRE DO NOT ENTER' BILINGUAL ILLUMINATED SIGN
- Ⓜ JUNCTION BOX
- [L0001] LIGHT GREY PAINT
- [L0006] MINT WITH BEGINE PAINT
- [L0015] OFFWHITE WITH TAN BACK PAINT
- [L0007] LIGHT BROWN WITH BEGINE PAINT

NOTES:

1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
3. BASE PLAN PROVIDED BY CLIENT.

CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 3  
BASEMENT CONSTRUCTION

|                     |                       |
|---------------------|-----------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257 |
|---------------------|-----------------------|

|                 |          |
|-----------------|----------|
| DRAWN BY:<br>CS | DRAWING: |
|-----------------|----------|

|                   |          |
|-------------------|----------|
| CHECKED BY:<br>SM | 17 OF 25 |
|-------------------|----------|

|               |  |
|---------------|--|
| SCALE:<br>NTS |  |
|---------------|--|





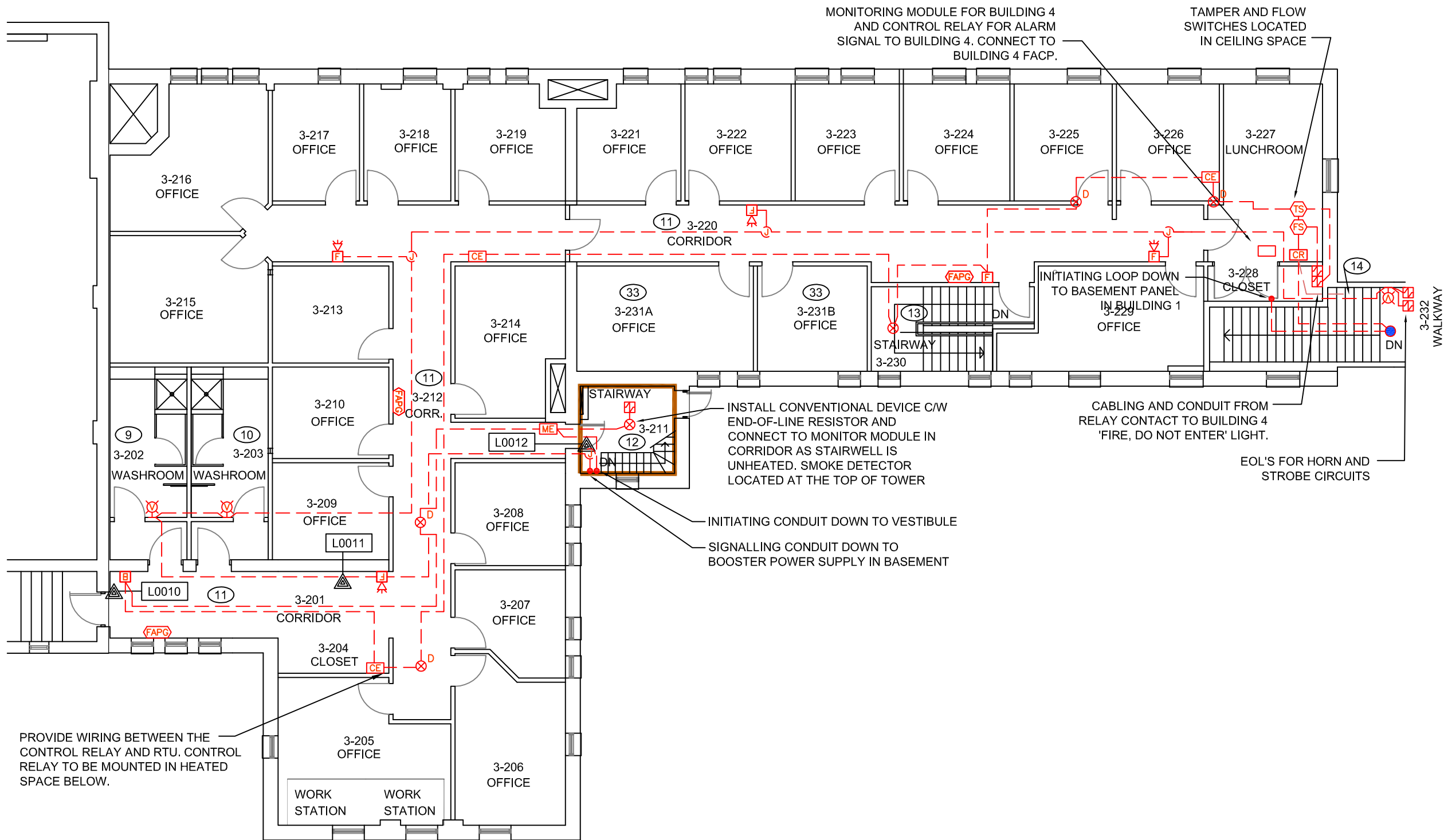
- NOTES:**
1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  3. BASE PLAN PROVIDED BY CLIENT.

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

|  |
|--|
| TITLE:<br>SECTION 02 83 00 LEAD PAINT REMOVAL<br>BUILDING 3<br>GROUND FLOOR CONSTRUCTION |
|--|

|             |             |
|-------------|-------------|
| DATE:       | PROJECT # : |
| 2018/09/13  | 212257      |
| DRAWN BY:   | DRAWING:    |
| CS          |             |
| CHECKED BY: |             |
| SM          | 18 OF 25    |
| SCALE:      |             |
| NTS         |             |





LEGEND:

- (X) LOCATION NUMBER
- △ LEAD SAMPLE LOCATION
- [F] MANUAL FIRE ALARM PULL STATION
- HEAT DETECTOR - FIXED TEMPERATURE
- ⊗ SMOKE DETECTOR
- ⊞ END OF LINE RESISTOR
- ⊞ VISUAL ALARM - WALL MOUNTED
- ⊞ FLOW SWITCH
- ⊞ TAMPER SWITCH
- [ME] FIRE ALARM MONITORING ELEMENT
- [CR] FIRE ALARM CONTROL RELAY
- [FAPG] FIRE ALARM PASSIVE GRAPHIC
- ⊞ JUNCTION BOX
- [Orange Outline] L0012 BROWN PAINT

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
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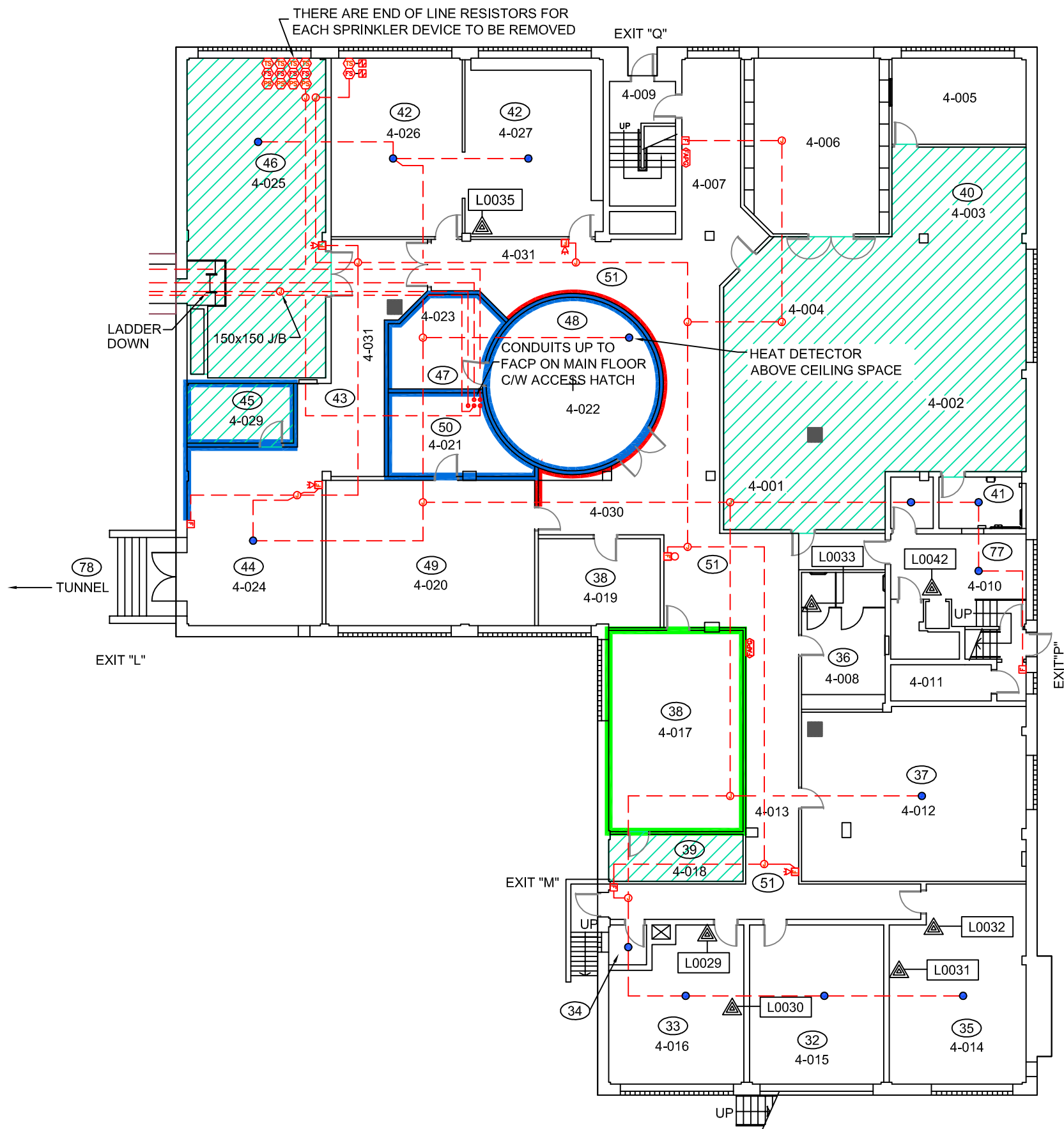
CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 3  
SECOND FLOOR CONSTRUCTION

|                     |                          |
|---------------------|--------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257    |
| DRAWN BY:<br>CS     | DRAWING:<br><br>19 OF 25 |
| CHECKED BY:<br>SM   |                          |
| SCALE:<br>NTS       |                          |





- ROOM LEGEND
- 4-001 STORAGE
  - 4-002 STORAGE
  - 4-003 STORAGE
  - 4-004 STORAGE
  - 4-005 OFFICE
  - 4-006 GARAGE
  - 4-007 CORRIDOR
  - 4-008 WASHROOM
  - 4-009 STAIRWAY - NORTH EXIT
  - 4-010 DUMBWAITER
  - 4-011 COOLER
  - 4-012 BACK TO WORK
  - 4-013 CORRIDOR - WASHROOM
  - 4-014 INMATE HOBBY ROOM
  - 4-015 PROPERTY ROOM
  - 4-016 STORAGE
  - 4-017 PROGRAM ROOM 2
  - 4-018 STORAGE
  - 4-019 FACILITATOR
  - 4-020 PROGRAM ROOM 1
  - 4-021 STORAGE
  - 4-022 CEREMONIAL ROOM
  - 4-023 STORAGE
  - 4-024 EXIT
  - 4-025 MECHANICAL ROOM
  - 4-026 GYMNASIUM
  - 4-027 RECREATION
  - 4-028 CORRIDOR
  - 4-029 MECHANICAL ROOM
  - 4-030 CORRIDOR
  - 4-031 CORRIDOR

- LEGEND:
- (X) LOCATION NUMBER
  - △ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ☒ FIRE ALARM HORN WITH VISUAL ALARM
  - ☒ FIRE ALARM BELL
  - ☒ PRESSURE SWITCH
  - ☒ FLOW SWITCH
  - ☒ TAMPER SWITCH
  - ☒ END OF LINE RESISTOR
  - ☒ FIRE ALARM PASSIVE GRAPHIC JUNCTION BOX

- L0009 BEGINE PAINT
- L00019 LIGHT GREY WITH BEGINE PAINT
- L0034 LIGHT BROWN WITH BLUE PAINT
- L0030 DARK PINK PAINT

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
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CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
BASEMENT DEMOLITION

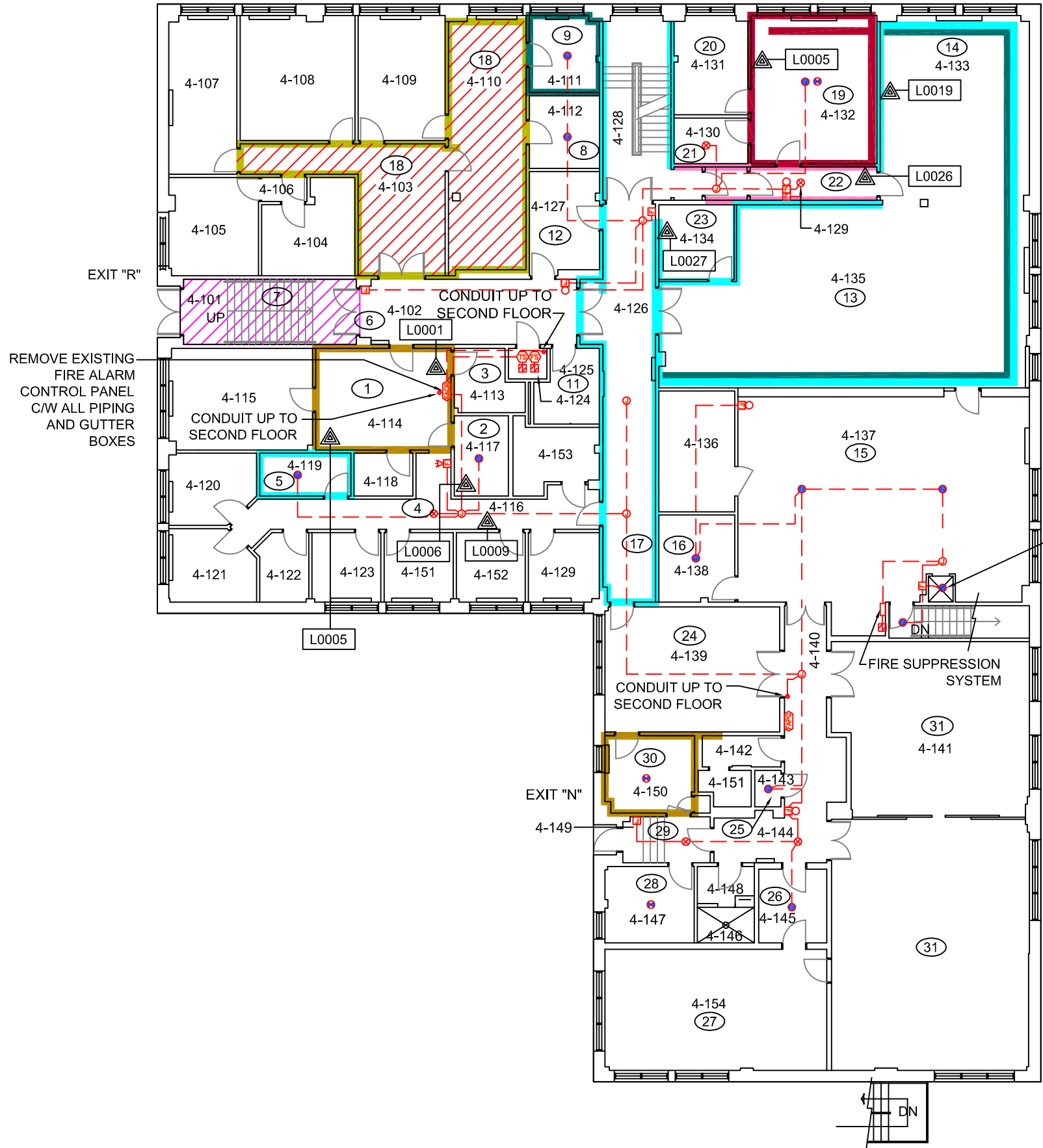
DATE: 2018/09/13 PROJECT #: 212257

DRAWN BY: CS DRAWING:

CHECKED BY: SM 20 OF 25

SCALE: NTS





- LEGEND:
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - Ⓜ MANUAL FIRE ALARM PULL STATION
  - Ⓢ SMOKE DETECTOR
  - Ⓢ SMOKE DETECTOR C/W LOCAL ALARM
  - HEAT DETECTOR - FIXED TEMPERATURE
  - Ⓜ FIRE ALARM HORN WITH VISUAL ALARM
  - Ⓜ FIRE ALARM BELL
  - Ⓜ FLOW SWITCH
  - Ⓜ TAMPER SWITCH
  - Ⓜ END OF LINE RESISTOR
  - Ⓜ FIRE ALARM PASSIVE GRAPHIC JUNCTION BOX

- L0002 GREY PAINT
- L0007 PEACH PAINT
- L0008 GREY WITH YELLOW PAINT-CEILING
- L0009 BEIGE PAINT-CEILING
- L0010 WHITE WITH TAN PAINT
- L0013 YELLOW PAINT
- L0017 GREEN PAINT
- L0018 PINK PAINT
- L0019 LIGHT GREY WITH BEIGE PAINT

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
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CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

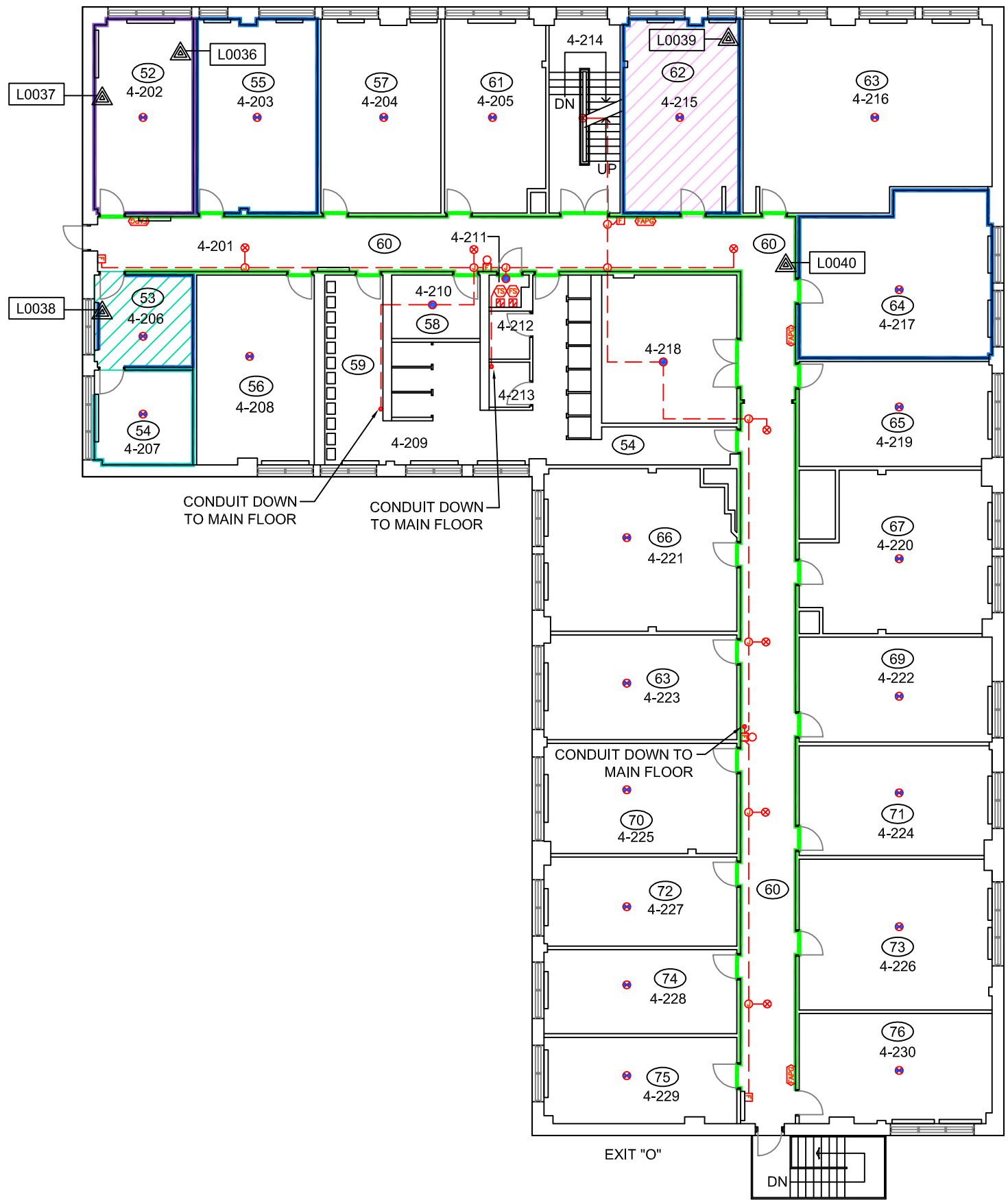
TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
GROUND FLOOR DEMOLITION

|                     |                          |
|---------------------|--------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257    |
| DRAWN BY:<br>CS     | DRAWING:<br><br>21 OF 25 |
| CHECKED BY:<br>SM   |                          |
| SCALE:<br>NTS       |                          |

| ROOM LEGEND |              |
|-------------|--------------|
| 4-101       | CORRIDOR     |
| 4-102       | CORRIDOR     |
| 4-103       | LOBBY        |
| 4-104       | OFFICE       |
| 4-105       | OFFICE       |
| 4-106       | ENTRY        |
| 4-107       | OFFICE       |
| 4-108       | OFFICE       |
| 4-109       | OFFICE       |
| 4-110       | OFFICE       |
| 4-111       | OFFICE       |
| 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      |
| 4-144       | LOUNGE       |
| 4-145       | STORAGE      |
| 4-146       | WASHROOM     |
| 4-147       | BEDROOM      |
| 4-148       | CORRIDOR     |
| 4-149       | VESTIBULE    |
| 4-150       | BEDROOM      |
| 4-151       | OFFICE       |
| 4-152       | OFFICE       |
| 4-153       | WASHROOM     |
| 4-154       | MEETING ROOM |

REMOVE EXISTING  
ELEVATOR RECALL





ROOM LEGEND

|       |          |       |         |
|-------|----------|-------|---------|
| 4-201 | CORRIDOR | 4-217 | BEDROOM |
| 4-202 | BEDROOM  | 4-218 | LAUNDRY |
| 4-203 | BEDROOM  | 4-219 | BEDROOM |
| 4-204 | BEDROOM  | 4-220 | BEDROOM |
| 4-205 | BEDROOM  | 4-221 | BEDROOM |
| 4-206 | BEDROOM  | 4-222 | BEDROOM |
| 4-207 | BEDROOM  | 4-223 | BEDROOM |
| 4-208 | BEDROOM  | 4-224 | BEDROOM |
| 4-209 | WASHROOM | 4-225 | BEDROOM |
| 4-210 | STORAGE  | 4-226 | BEDROOM |
| 4-211 | MOP ROOM | 4-227 | BEDROOM |
| 4-212 | STORAGE  | 4-228 | BEDROOM |
| 4-213 | STORAGE  | 4-229 | BEDROOM |
| 4-214 | STAIRWAY | 4-230 | BEDROOM |
| 4-215 | BEDROOM  |       |         |
| 4-216 | BEDROOM  |       |         |

LEGEND:

- (X) LOCATION NUMBER
- (A) LEAD SAMPLE LOCATION
- (F) MANUAL FIRE ALARM PULL STATION
- (S) SMOKE DETECTOR
- (S) SMOKE DETECTOR C/W LOCAL ALARM
- (FS) FLOW SWITCH
- (TS) TAMPER SWITCH
- (ER) END OF LINE RESISTOR
- (FAPG) FIRE ALARM PASSIVE GRAPHIC
- (JB) JUNCTION BOX

- (Yellow with green & beige paint)
- (Light brown with blue paint)
- (Fent paint)
- (Dark pink paint)
- (Beige paint)
- (Dark pink with blue paint)

- NOTES:
- NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.
  - LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.
  - BASE PLAN PROVIDED BY CLIENT.

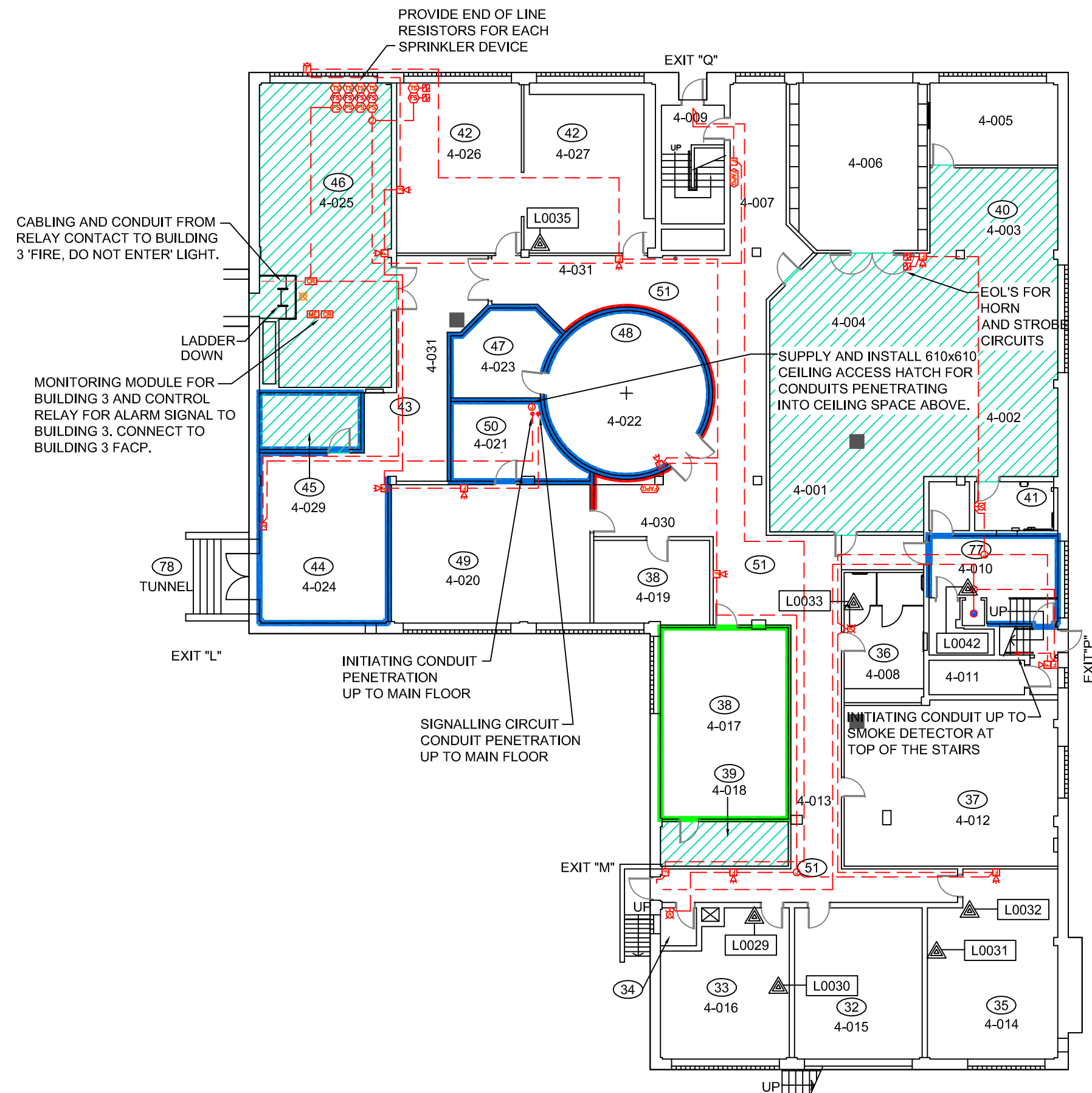
CLIENT:  
CORRECTIONAL SERVICE CANADA

LOCATION:  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

TITLE:  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
SECOND FLOOR DEMOLITION

|                     |                          |
|---------------------|--------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257    |
| DRAWN BY:<br>CS     | DRAWING:<br><br>22 OF 25 |
| CHECKED BY:<br>SM   |                          |
| SCALE:<br>NTS       |                          |





- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - HEAT DETECTOR - FIXED TEMPERATURE
  - ☒ FIRE ALARM HORN WITH VISUAL ALARM
  - ☑ FIRE ALARM BELL
  - ⊞ PRESSURE SWITCH
  - ⊞ FLOW SWITCH
  - ⊞ TAMPER SWITCH
  - ⊞ END OF LINE RESISTOR
  - ⊞ FIRE ALARM PASSIVE GRAPHIC
  - ⊞ JUNCTION BOX
  - L0009 BEGINE PAINT
  - L0019 LIGHT GREY WITH BEGINE PAINT
  - L0034 LIGHT BROWN WITH BLUE PAINT
  - L0030 DARK PINK PAINT

- NOTES:**
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**CLIENT:**  
CORRECTIONAL SERVICE CANADA

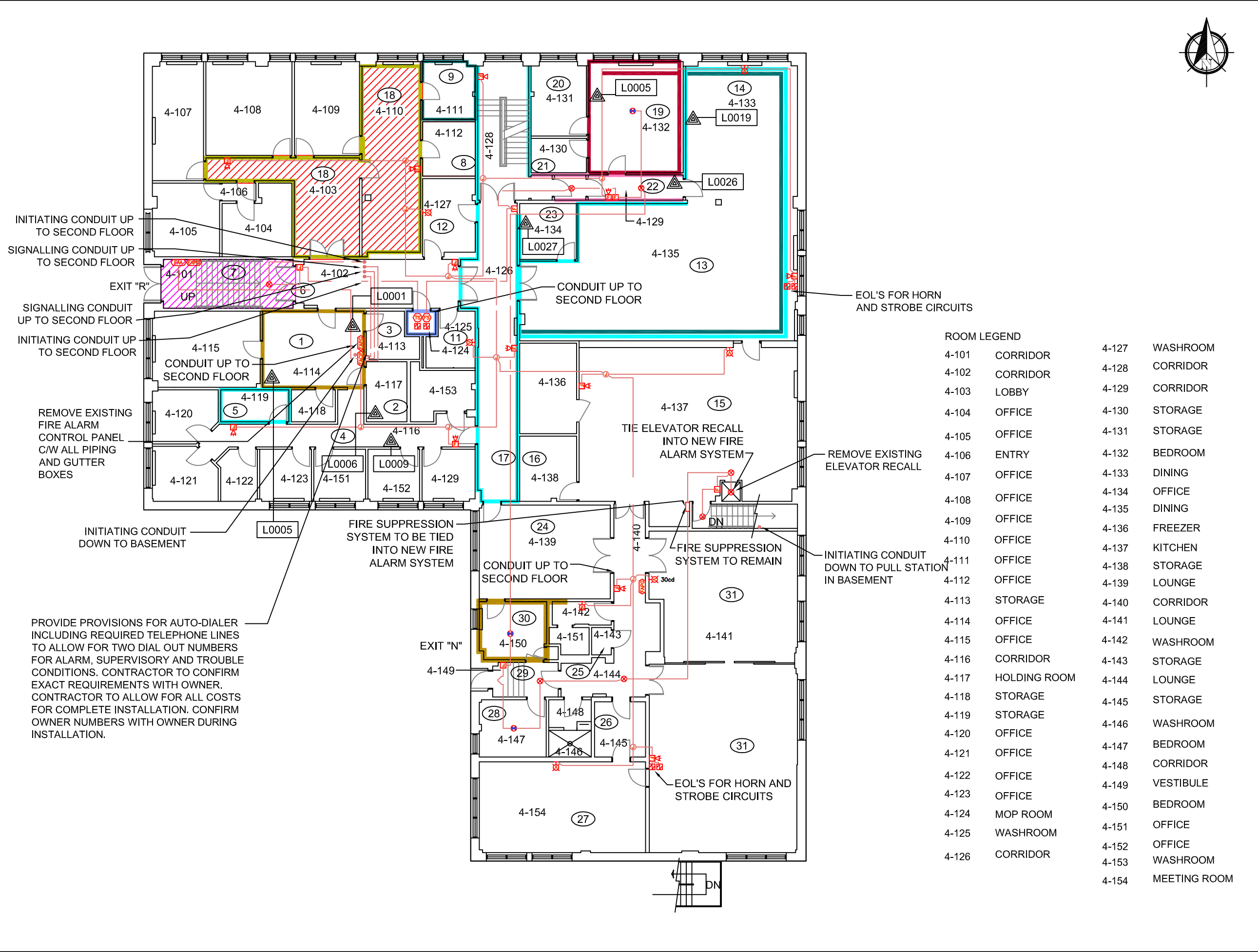
**LOCATION:**  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

**TITLE:**  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
BASEMENT CONSTRUCTION

|                     |                          |
|---------------------|--------------------------|
| DATE:<br>2018/09/13 | PROJECT # :<br>212257    |
| DRAWN BY:<br>VM     | DRAWING:<br><br>23 OF 25 |
| CHECKED BY:<br>SM   |                          |
| SCALE:<br>NTS       |                          |

- ROOM LEGEND**
- 4-001 STORAGE
  - 4-002 STORAGE
  - 4-003 STORAGE
  - 4-004 STORAGE
  - 4-005 OFFICE
  - 4-006 GARAGE
  - 4-007 CORRIDOR
  - 4-008 WASHROOM
  - 4-009 STAIRWAY - NORTH EXIT
  - 4-010 DUMBWAITER
  - 4-011 COOLER
  - 4-012 BACK TO WORK
  - 4-013 CORRIDOR - WASHROOM
  - 4-014 INMATE HOBBY ROOM
  - 4-015 PROPERTY ROOM
  - 4-016 STORAGE
  - 4-017 PROGRAM ROOM 2
  - 4-018 STORAGE
  - 4-019 FACILITATOR
  - 4-020 PROGRAM ROOM 1
  - 4-021 STORAGE
  - 4-022 CEREMONIAL ROOM
  - 4-023 STORAGE
  - 4-024 EXIT
  - 4-025 MECHANICAL ROOM
  - 4-026 GYMNASIUM
  - 4-027 RECREATION
  - 4-028 CORRIDOR
  - 4-029 MECHANICAL ROOM
  - 4-030 CORRIDOR
  - 4-031 CORRIDOR





- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - SMOKE DETECTOR
  - SMOKE DETECTOR C/W LOCAL ALARM
  - FIRE ALARM HORN
  - FIRE ALARM HORN WITH VISUAL ALARM
  - VISUAL ALARM - WALL MOUNTED
  - FLOW SWITCH
  - TAMPER SWITCH
  - END OF LINE RESISTOR
  - FIRE ALARM PASSIVE GRAPHIC
  - FIRE ALARM CONTROL PANEL
  - FIRE ALARM ANNUNCIATOR
  - JUNCTION BOX
  - L0002 GREY PAINT
  - L0007 PEACH PAINT
  - L0008 GREY WITH YELLOW PAINT-CEILING
  - L0009 BEIGE PAINT-CEILING
  - L0010 WHITE WITH TAN PAINT
  - L0013 YELLOW PAINT
  - L0017 GREEN PAINT
  - L0018 PINK PAINT
  - L0019 LIGHT GREY WITH BEIGE PAINT

**NOTES:**

1. NOT ALL KNOWN OR SUSPECTED HAZARDOUS BUILDING MATERIALS MAY BE DEPICTED ON THE DRAWING. REFER TO THE HAZARDOUS BUILDING MATERIALS ASSESSMENT REPORT FOR A COMPLETE LIST OF KNOWN AND SUSPECTED HAZARDOUS BUILDING MATERIALS.

2. LEGEND IS COLOUR DEPENDENT. NON-COLOUR COPIES MAY ALTER INTERPRETATION.

3. BASE PLAN PROVIDED BY CLIENT.

**CLIENT:**  
CORRECTIONAL SERVICE CANADA

**LOCATION:**  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

**TITLE:**  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
GROUND FLOOR CONSTRUCTION

**DATE:** 2018/09/13  
**PROJECT # :** 212257

**DRAWN BY:** VM  
**DRAWING:**

**CHECKED BY:** SM  
**24 OF 25**

**SCALE:** NTS

| ROOM LEGEND |              |
|-------------|--------------|
| 4-101       | CORRIDOR     |
| 4-102       | CORRIDOR     |
| 4-103       | LOBBY        |
| 4-104       | OFFICE       |
| 4-105       | OFFICE       |
| 4-106       | ENTRY        |
| 4-107       | OFFICE       |
| 4-108       | OFFICE       |
| 4-109       | OFFICE       |
| 4-110       | OFFICE       |
| 4-111       | OFFICE       |
| 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      |
| 4-144       | LOUNGE       |
| 4-145       | STORAGE      |
| 4-146       | WASHROOM     |
| 4-147       | BEDROOM      |
| 4-148       | CORRIDOR     |
| 4-149       | VESTIBULE    |
| 4-150       | BEDROOM      |
| 4-151       | OFFICE       |
| 4-152       | OFFICE       |
| 4-153       | WASHROOM     |
| 4-154       | MEETING ROOM |

PROVIDE PROVISIONS FOR AUTO-DIALER INCLUDING REQUIRED TELEPHONE LINES TO ALLOW FOR TWO DIAL OUT NUMBERS FOR ALARM, SUPERVISORY AND TROUBLE CONDITIONS. CONTRACTOR TO CONFIRM EXACT REQUIREMENTS WITH OWNER. CONTRACTOR TO ALLOW FOR ALL COSTS FOR COMPLETE INSTALLATION. CONFIRM OWNER NUMBERS WITH OWNER DURING INSTALLATION.





- LEGEND:**
- (X) LOCATION NUMBER
  - ▲ LEAD SAMPLE LOCATION
  - MANUAL FIRE ALARM PULL STATION
  - SMOKE DETECTOR
  - SMOKE DETECTOR C/W LOCAL ALARM
  - ☒ FIRE ALARM HORN WITH VISUAL ALARM
  - ☒ VISUAL ALARM - WALL MOUNTED
  - FLOW SWITCH
  - TAMPER SWITCH
  - END OF LINE RESISTOR
  - FIRE ALARM MONITORING ELEMENT
  - FIRE ALARM CONTROL RELAY
  - ☒ FIRE ALARM PASSIVE GRAPHIC
  - JUNCTION BOX
  - L0028 YELLOW WITH GREEN & BEIGE PAINT
  - L0029 LIGHT BROWN WITH BLUE PAINT
  - L0031 FENT PAINT
  - L0030 DARK PINK PAINT
  - L0032 BEIGE PAINT
  - L0033 DARK PINK WITH BLUE PAINT

- NOTES:**
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CORRECTIONAL SERVICE CANADA

**LOCATION:**  
GRIERSON INSTITUTION  
9530 - 101 AVENUE NW  
EDMONTON, ALBERTA

**TITLE:**  
SECTION 02 83 00 LEAD PAINT REMOVAL  
BUILDING 4  
SECOND FLOOR CONSTRUCTION

**DATE:**  
2018/09/13

**PROJECT # :**  
212257

**DRAWN BY:**  
VM

**DRAWING:**

**CHECKED BY:**  
SM

25 OF 25

**SCALE:**  
NTS

**ROOM LEGEND**

- 4-201 CORRIDOR
- 4-202 BEDROOM
- 4-203 BEDROOM
- 4-204 BEDROOM
- 4-205 BEDROOM
- 4-206 BEDROOM
- 4-207 BEDROOM
- 4-208 BEDROOM
- 4-209 WASHROOM
- 4-210 STORAGE
- 4-211 MOP ROOM
- 4-212 STORAGE
- 4-213 STORAGE
- 4-214 STAIRWAY
- 4-215 BEDROOM
- 4-216 BEDROOM
- 4-217 BEDROOM
- 4-218 LAUNDRY
- 4-219 BEDROOM
- 4-220 BEDROOM
- 4-221 BEDROOM
- 4-222 BEDROOM
- 4-223 BEDROOM
- 4-224 BEDROOM
- 4-225 BEDROOM
- 4-226 BEDROOM
- 4-227 BEDROOM
- 4-228 BEDROOM
- 4-229 BEDROOM
- 4-230 BEDROOM

