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SOLICITATION AMENDMENT MODIFICATION DE L'INVITATION

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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Electrical & Electronics Products Division
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Gatineau, Québec K1A 0S5

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Solicitation No. - N° de l'invitation
21120-187317/B
Client Ref. No. - N° de réf. du client
21120-187317

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This amendment 001 is raised to remove electronic attachments and provide SOW as an amendment to the document.

INSERT: See attached SOW

All other terms and conditions remain unchanged.

STATEMENT OF WORK INCIDENT ALARM SYSTEM

Revision	Date	Paragraph	Comment
0	2017-01	N/A	Original
1	2017-10	3.2 3.3 Appendix A: 1.1.4 Appendix A 3.2 Appendix B: 1.7	Extended estimated duration to 6 months Location details moved to Appendix E Allow battery powered initiation points Clarify operation of buttons Allow UV rated wiring on fences – no conduit and EMT conduit on high ceilings

1	INTRODUCTION	4
1.1	Objective	4
1.2	Overview.....	4
2	REFERENCES	4
2.1	Standards	4
3	SCOPE	4
3.1	Nature of the Work.....	4
3.2	Tasks and Activities	4
3.3	Locations of Work	5
3.4	Contractor Security Requirements	5
4	PROJECT GOVERNANCE	5
4.1	Communications.....	5
4.2	Project Performance.....	5
4.3	Project Governance.....	6
4.4	Project Initiation.....	7
5	DOCUMENTATION DELIVERABLES	7
5.1	Delivery.....	7
5.2	Design Reviews	7
5.3	Design Change Control.....	8
5.4	Progressed Schedule	8
5.5	Acceptance Test Plan.....	9
5.6	Maintenance Training Plan	9
5.7	Milestone Acceptance	9
5.8	Final Acceptance	10
5.9	As-Built Documentation	10
5.10	Final Project Report.....	10
6	PROJECT DELIVERABLES	10
6.1	Incident Alarm Systems	10
7	WARRANTY.....	10
7.1	Warranty	10
	APPENDIX A - INCIDENT ALARM TECHNICAL REQUIREMENTS	12
1	PHYSICAL	12
1.1	Initiation Point.....	12
1.2	Siren.....	12
1.3	Strobe	12
1.4	Dimensions	12
1.5	Environment.....	12
1.6	Reliability.....	12
1.7	Safety.....	13

2	INSTALLATION	13
2.1	Installation.....	13
3	OPERATIONAL.....	13
3.1	Capacity.....	13
3.2	Initiation Points.....	13
3.3	Alarms	13
4	INTERFACE	14
4.1	System Power	14
	APPENDIX B - WIRING TECHNICAL REQUIREMENTS	15
1	INSTALLATION	15
1.1	All Cabling.....	15
1.2	Low Voltage Cabling (less than 50V AC or DC)	15
1.3	Power Cabling.....	16
1.4	Connections.....	16
1.5	Termination Blocks	16
1.6	Labelling.....	17
1.7	Conduits and Cable Trays	17
1.8	Cable Dressing.....	18
1.9	Outdoor Enclosures	18
1.10	Restoration.....	18
	APPENDIX C - INSTALLATION STANDARDS	19
1	INSTALLATION	19
1.1	Tools, Equipment, and Materials.....	19
1.2	Redundant Electronics.....	19
1.3	Environmental.....	19
	APPENDIX D - CONTRACTOR SAFETY REGULATIONS.....	20
1	COMPLIANCE.....	20
1.1	Acts and Regulations	20
2	PROCESS.....	20
2.1	Safety Plan	20
	APPENDIX E - LOCATION PLANS.....	21
	Atlantic Institution.....	21
	Millhaven Institution.....	25
	Saskatchewan Penitentiary	30
	Edmonton Institution	34
	Kent Institution	39

1 INTRODUCTION

1.1 Objective

- .1 Correctional Service Canada intends to contract a qualified firm to provide Incident Alarm Systems at Atlantic Institution, Millhaven Institution, Saskatchewan Penitentiary, Edmonton Institution and Kent Institution.

1.2 Overview

- .1 The Incident Alarm systems will be used in shared gyms and large yards of maximum security institutions to warn inmates to cease their current actions.
- .2 Armed officers in over-watch positions in galleries and/or towers will be able to initiate and terminate the alarm from any on the defined positions for each zone.
- .3 The configuration will allow the alarm to be initiated at one point and terminated at a different point as they may observe an incident from one location, but move to a different location to deal with it.
- .4 Each system will be capable of being initiated from multiple locations overlooking the defined zones. The system consists of a set of initiation points, and pairs of co-located sirens and strobe lights.

2 REFERENCES

2.1 Standards

- .1 Access to non-government specifications is the responsibility of the contractor.
- .2 Any standards where the revision is not specified must be the latest revision.
- .3 Standards may include:
 - .1 relevant federal and provincial health and safety standards;
 - .2 equipment performance requirements;
 - .3 equipment installation requirements;

3 SCOPE

3.1 Nature of the Work

- .1 The Contractor must perform the Work as described in this Statement of Work.
- .2 The Work involves installing, connecting, and testing all components of the system. Initiation points will be installed at identified locations on each site. Co-located sirens and strobe lights will be installed to meet the specified visibility, sound, and protection requirements.
- .3 The contractor may determine the sequencing and simultaneity of system installations.
- .4 The contractor must perform all audible alarm testing between 8am and 8pm local time during installation.
- .5 Site access for each institution must be coordinated with the institutional contact. Due to operational activities, night time access may be easier especially if lifts or trenching equipment are required.

3.2 Tasks and Activities

- .1 The system installations and all other contractual activities are expected to take place within six months after contract award.
- .2 The Contractor must provide the elements described in this section, the details of which are provided throughout this document.

- .3 Each site must have one of more systems installed and tested with the following system components for each identified zone in compliance with the technical requirements in Appendix A in locations as identified in Locations of Work:
 - .1 One or more initiation points;
 - .2 Two or more collocated sirens/strobe lights;
 - .3 Power supplies, conduit, equipment cabinets, and wiring as required;
- .4 The contractor must remove and dispose of the existing outdoor system at Millhaven Institution after installation and commissioning of the new outdoor system.
- .5 Training classes for maintainers at each site must be provided. The maintenance course is to be offered once per institution with a class size of up to 5. Class times are to be coordinated with each site's Institutional Contact. The training courses must be delivered at each site. Training attendance sheets must be submitted to the Technical Authority and to each Institutional Contact with 2 days of delivering the training.
- .6 Documentation as identified in Deliverables must be provided to the Technical Authority by the Contractor as part of the design, installation and test activities.

3.3 Locations of Work

- .1 Any required face-to-face interactions with the Technical Authority, determined entirely at the discretion of the Technical Authority, must take place at CSC National Headquarters in the National Capital Region. Where feasible, communications between the Technical Authority and the Contractor's representative will take place by telephone, email, or teleconference.
- .2 Institutional contacts will be provided to the contractor by CSC upon contract award.
- .3 Location 1: Atlantic Institution
- .4 Location 2: Millhaven Institution
- .5 Location 3: Saskatchewan Penitentiary
- .6 Location 4: Edmonton Institution
- .7 Location 5: Kent Institution

3.4 Contractor Security Requirements

- .1 The Contractor must hold a valid Designation Organization Screening issued or granted by the Canadian Industrial Security Directorate of Public Service Procurement Canada.
- .2 Each candidate proposed as project personnel in support of this project must hold a valid Reliability security status issued by Canadian Industrial Security Directorate of Public Service Procurement Canada. Should the Contractor's personnel be found to be ineligible at the time of screening, the Contractor must provide an equivalent replacement that passes the security requirement.
- .3 Delays caused by the CSC security clearance requirement must not incur any additional costs to CSC.

4 PROJECT GOVERNANCE

4.1 Communications

- .1 All meetings, telephone or teleconference discussions, email correspondence, and other communications with the Technical Authority must be conducted in English.
- .2 Verbal and written communications with all CSC sites and personnel must be in English.
- .3 All Work deliverables must be completed in English.

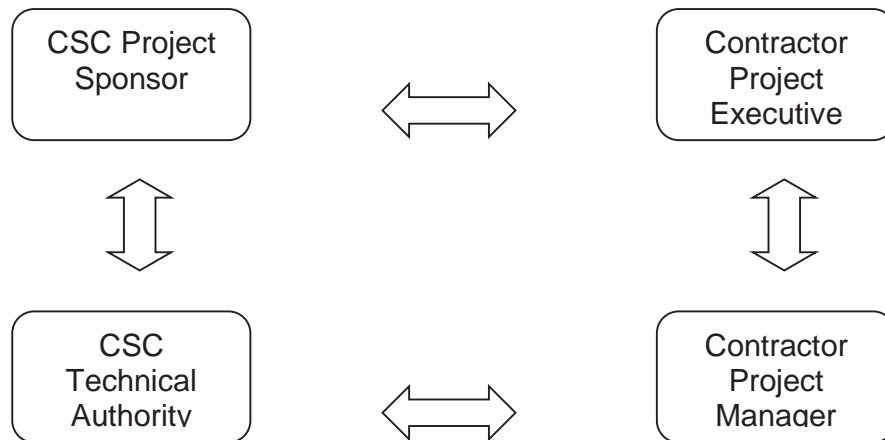
4.2 Project Performance

- .1 The Contractor must design and install all cabling components in accordance with the structured cabling requirements of Appendix B.
- .2 The Contractor must meet all the requirements for Contractor safety regulations in accordance with Appendix C.

4.3 Project Governance

- .1 Overall project management responsibility will lie with the Technical Authority. The Technical Authority will manage all aspects of liaison with the Contractor in terms of issue resolution, change management, project timeline management, and other delivery issues and will act as the focal point for all CSC personnel-related interfaces.
- .2 The Technical Authority is:

Mark Bottomley
Electronic Security Systems Engineer
Technical Services and Facilities
340 Laurier Avenue West
Ottawa, ON
K1A 0P9
613-996-8871
mark.bottomley@csc-scc.gc.ca
- .3 Each institution will have a designated Institutional Representative. Each Institutional Representative will provide guidance on the detailed location of the initiation points.
- .4 The Technical Authority is the only person permitted to modify zone definitions or add or remove initiation points.
- .5 The Contractor must designate a single qualified person as the Contract Project Manager. The Contract Project Manager must act as the focal point for all Contractor issues regarding delivery of service as well as providing a single point of contact for any items requiring contact with the Technical Authority for issue resolution, change management, timeline management, and other delivery issues.
- .6 The Contract Project Manager must be the sole resource permitted to communicate with CSC unless express permission is provided by the Technical Authority. Members of the Contractor management team must direct all communications with CSC through the Contract Project Manager.
- .7 If the Technical Authority is unable to communicate effectively with the Contract Project Manager or finds the resource is unable or unwilling to provide a satisfactory level of service, the CSC Project Sponsor will inform the Contractor Project Executive of the impasse. The Contractor must then replace the Contract Project Manager within thirty (30) days of CSCs notification with an equally well-qualified or superior resource.
- .8 Should the need arise to escalate project issues beyond the levels of the Contract Project Manager and the Technical Authority, the personnel of both the Contractor and CSC responsible for ultimate project governance will become involved. Escalation of an issue will only occur internally in either organization. The project governance level (i.e. CSC Project Sponsor and Contractor Project Executive) of one group is not to be contacted by the project management personnel (i.e. Technical Authority and Contract Project Manager) of the other.



4.4 Project Initiation

- .1 The objective of the Project Initiation exercise is to set the standards, timings, and deliverables that will govern the Project throughout its life.
- .2 Within thirty (30) days following contract award, the Technical Authority and the Contractor Project Manager will meet to define the activities comprising Project Initiation. At this time, the Technical Authority and Contractor Project Manager will assign resources and set objectives and schedules for the Project. The project initiation phase must be completed no later than forty-five (45) days following contract award.

5 DOCUMENTATION DELIVERABLES

5.1 Delivery

- .1 All reports, plans, and documentation, unless otherwise noted, must be submitted electronically to the Technical Authority.

5.2 Design Reviews

- .1 The Contractor must submit a draft of the Design Report to the Technical Authority. CSC will perform a review of the report and schedule a meeting with the Contractor Project Manager within seven (7) calendar days of the submission. At that meeting, the Technical Authority will grant Design Acceptance in writing, or present the Contractor Project Manager with CSC's feedback on the draft identifying issues based on their review that must be addressed by the Contractor in the second draft. The second report submission and review sequence will be the same as the initial draft. If the review of the second draft report is still not acceptable, the Technical Authority will edit and provide an approved Design Report within ten (10) calendar days of the submission.
- .2 The Design Report submission must contain at a minimum:
 - .1 performance specifications of components to verify meeting system requirements;
 - .2 equipment list with quantity, manufacturer, part number and model number;
 - .3 installation drawings and instructions;
 - .4 spares plan;
 - .5 training plan;
- .3 Unless instructed by the Technical Authority in writing, ordering of equipment/material before approval of the Design Report is at the Contractor's own risk.

- .4 Design Change Control starts upon Design Acceptance.

5.3 Design Change Control

- .1 If there is a need to modify the design after the Design Reviews, then the contract must prepare and submit electronically a Design Change Request in .pdf format. Design Change Requests are categorized as Type I or Type II depending on their project impact.
- .2 Type I changes are those that affect one or more of:
 - .1 cost;
 - .2 schedule;
 - .3 reliability;
 - .4 maintainability;
 - .5 availability;
- .3 Type II changes are those that correct a design error or modify the design without affecting:
 - .1 cost;
 - .2 schedule;
 - .3 reliability;
 - .4 maintainability;
 - .5 availability;
- .4 Type I changes must be submitted to the Contracting Authority.
- .5 Type II changes must be submitted to the Technical Authority.
- .6 Change requests must include at a minimum:
 - .1 change type;
 - .2 a description of the design change;
 - .3 reason for the change;
 - .4 the specification requirement(s) being affected;
 - .5 the Design Report element(s) being changed;
 - .6 cost impact;
 - .7 schedule impact;
 - .8 reliability impact;
 - .9 maintainability impact;
 - .10 availability impact;
 - .11 any trade-off recommendations;
- .7 Changes must not be implemented until accepted in writing by the Technical Authority through the Contracting Authority.

5.4 Progressed Schedule

- .1 Upon Design Acceptance, the Contractor must provide the Technical Authority a Progressed Schedule update every two (2) weeks.
- .2 The Progressed Schedule must include at a minimum:
 - .1 date of last schedule progress update;
 - .2 identification of all updates since the previous submission;
 - .3 progress details for each milestone;
 - .4 identification of all items delayed by more than two (2) weeks from the original schedule;
 - .5 plans for preventing further schedule slippage of delayed items;

- .6 separate entries for each alarm zone;
 - .7 separate entries for each initiation point installation by zone;
 - .8 separate entries for each siren/strobe installation by zone;
 - .9 separate entries for all report, plan, and documentation deliverables;
- .3 The schedule may be provided electronically, or alternately be made available online through a Contractor hosted project management portal.

5.5 Acceptance Test Plan

- .1 The Contractor must submit a draft of the Acceptance Test Plan to the Technical Authority. CSC will perform a review of the plan and schedule a meeting with the Contractor Program Manager within seven (7) calendar days of the submission. At that meeting, the Technical Authority will grant Test Plan Approval in writing, or present the Contractor Program Manager with CSC's feedback on the draft identifying issues based on their review that must be addressed by the Contractor in the second draft. The second plan submission and review sequence will be the same as the initial draft. If the review of the second draft plan is still not acceptable, the Technical Authority will edit and provide an approved Acceptance Test Plan within ten (10) calendar days of the submission.
- .2 The Acceptance Test Plan must contain at a minimum:
- .1 the purpose of the test;
 - .2 step-by-step instructions for test performance;
 - .3 blank forms for recording test results;
- .3 The Acceptance Test Plan tests must include at a minimum tests that cover correct operation of all components;

5.6 Maintenance Training Plan

- .1 The Contractor must submit a draft of the Maintenance Training Plan to the Technical Authority. CSC will perform a review of the plan and schedule a meeting with the Contractor Program Manager within seven (7) calendar days of the submission. At that meeting, the Technical Authority will grant Training Approval in writing, or present the Contractor Program Manager with CSC's feedback on the draft identifying issues with the plan based on their review that must be addressed by the Contractor in the second draft. The second plan submission and review sequence will be the same as the initial draft. If the review of the second draft plan is still not acceptable, the Technical Authority will edit and provide an approved Maintenance Training Plan within ten (10) calendar days of the submission.
- .2 The Maintenance Training Plan must contain at a minimum:
- .1 course goals;
 - .2 course agenda with topics and durations;
 - .3 hands-on examination of the installed system;
 - .4 practical fault isolation;
 - .5 printed materials to be retained by each student;

5.7 Milestone Acceptance

- .1 Each location will be considered a separate milestone.
- .2 Installation and training activities at the site must be completed by the Contractor prior to any performance of any acceptance testing.
- .3 Upon completion of the Incident Alarm System(s) at each site, including all training, testing and commissioning activities, CSC will review the results and accompanying documentation

to ensure that all deliverables have been met and that all issues identified by the Technical Authority have been addressed. If those conditions have been met, CSC will grant Milestone Acceptance for the relevant milestone.

5.8 Final Acceptance

- .1 Once all of the sites have been granted Milestone Acceptance, CSC will review the project. The goal of this activity is to ensure that all tasks and deliverables have been met by the Contractor, including training, As-Built Documentation and the Warranty, and that all issues identified by the Technical Authority have been addressed. If those conditions have been met, and the Technical Authority has approved the Contractor's Final Project Report, CSC will grant Final Acceptance, closing the project.

5.9 As-Built Documentation

- .1 The Contractor must provide as-built documentation. All drawings must be submitted in AutoCAD 2013 or later format in addition to .pdf format. The full documentation package must be provided to the Technical Authority and the National Maintenance Contractor for each site. The documentation must not contain any hand-written content except for signatures and signing dates.
- .2 The Contractor as-built documentation must include at a minimum site and building plans with:
 - .1 individual cable runs;
 - .2 conduit sizes;
 - .3 new and re-used conduits;
 - .4 equipment boxes;
 - .5 riser diagrams;
 - .6 cable identification numbers;
 - .7 installed equipment serial numbers;

5.10 Final Project Report

- .1 The Contractor's final project report must include at a minimum copies of:
 - .1 completed, successful acceptance tests;
 - .2 maintenance training course attendance sheets;

6 PROJECT DELIVERABLES

6.1 Incident Alarm Systems

- .1 The Contractor must:
 - .1 supply Incident Alarm systems at locations specified in Appendix E that meet the technical requirements of Appendices A, B, and C.
 - .2 provide for each site all the reports, plans, and documentation identified in Documentation Deliverables;
 - .3 provide maintenance training in accordance with the approved Maintenance Training Plan to each site's National Maintenance Contractor personnel;
 - .4 perform a successful Acceptance Test at each site witnessed and signed-off by the Technical Authority or delegate;

7 WARRANTY

7.1 Warranty

Statement of Work – Incident Alarm System

- .1 The Contractor must provide a written twelve (12) month system warranty that covers all materials and labour required to correct any system problems occurring during the warranty period.
- .2 The separate warranty period for each site is deemed to have started at the earliest of acceptance of the system by the Technical Authority or delegate; or placing the system into service by CSC.

APPENDIX A - INCIDENT ALARM TECHNICAL REQUIREMENTS

1 PHYSICAL

1.1 Initiation Point

- .1 The initiation point must be a single 40mm or greater diameter, red mushroom button;
- .2 The button case must include the engraved label “ALERT” with lettering at least 15mm high;
- .3 The initiation point may be wired or wireless.
- .4 Wireless initiation points that use batteries must report low battery status to the Facilities Alarm Annunciation System in the Main Communications and Control Post.
- .5 Wireless initiation point equipment must be approved by CSC prior to inclusion in a request for proposal response.

1.2 Siren

- .1 The siren must be an Edwards D2 Class 5520D-AW (24VDC) diode polarized device configured as a siren.
- .2 The warning sound source is defined for consistency across all sites as this may precede the use of lethal force.

1.3 Strobe

- .1 The strobe must:
 - .1 accept 24VDC power;
 - .2 be a polarized device for circuit supervision;
 - .3 be amber in colour;
 - .4 have a minimum 500,000 peak candela;
 - .5 have flash frequency between 60 and 90 flashes per minute;

1.4 Dimensions

- .1 All equipment room equipment must be enclosed in a wall mounted, locked cabinet.

1.5 Environment

- .1 Any outdoor equipment including enclosures, cables, and mounting equipment must:
 - .1 be capable of continuous operation;
 - .2 start and operate from -40°C to 50°C;
 - .3 start and operate from 20% to 90% non-condensing humidity;
- .2 Any indoor equipment must:
 - .1 be capable of continuous operation;
 - .2 start and operate from 0°C to 50°C;
 - .3 start and operate from 20% to 90% non-condensing humidity;
- .3 All equipment must:
 - .1 meet or exceed IP65 dust and water resistance when mounted (IEC EN60529 – International Electrotechnical Commission Degrees of protection provided by enclosures);

1.6 Reliability

- .1 All components must have a Mean Time Between Failures of no less than 75,000 hours;

1.7 Safety

- .1 Any outdoor enclosure must:
 - .1 meet IEC EN60950-1 or IEC EN60950-22 or CAN/CSA-C22.2 NO. 60950-1. (IEC EN60950-1 – International Electrotechnical Commission Information technology equipment – Safety – Part 1: General requirements, IEC EN60950-22 – International Electrotechnical Commission Information technology equipment – Safety - Part 22: Equipment to be installed outdoors);

2 INSTALLATION

2.1 Installation

- .1 The system must be independent of any existing public address systems.
- .2 A strobe must be co-located with each siren.
- .3 Each zone must have a minimum of two sirens/strobes.
- .4 All locations in a zone must receive a minimum siren level of 90 dBA, measured 1.5m above the floor/ground level anywhere in the zone;
- .5 All locations in a zone must have line of sight to at least one strobe.
- .6 All siren/strobe series connections must use end-of-line resistors.
- .7 The sirens and strobes must be:
 - .1 mounted at least 4m above ground/floor level where possible;
 - .2 enclosed in a metal cage secured to the ceiling, wall, fence, or tower if mounted below 4m above ground/floor level;
 - .3 enclosed in a metal cage secured to the ceiling or wall if in a location where inmates have projectiles over 500g e.g. basketballs;
 - .4 mounted on a weatherproof junction box;
- .8 The request for proposal will define:
 - .1 incident alarm zones;
 - .2 initiation point locations with zone assignments;
- .9 The system for each site must include a certified and calibrated sound level meter with complete instructions on its use.

3 OPERATIONAL

3.1 Capacity

- .1 Each zone must:
 - .1 be fully independent;
 - .2 be able to support a minimum of thirty (30) initiation points;

3.2 Initiation Points

- .1 The initiation points must:
 - .1 operate such that each depression toggles the siren/strobe state;
 - .2 toggle the siren/strobe state within one second of being pushed;
 - .3 allow the toggle inputs to come from different buttons, e.g. toggle on with one button and toggle off with a different button;

3.3 Alarms

- .1 The system must:
 - .1 retain its configuration over a power cycle;
 - .2 **not** generate spurious alarms on start-up;
 - .3 resume normal operation without operator intervention;

4 INTERFACE

4.1 System Power

- .1 Any powered indoor components **not** using DC power inputs must:
 - .1 accept power from a 120VAC circuit;
 - .2 **not** require more than 15A during start-up and operation;
- .2 The system must:
 - .1 be connected to a circuit supplied by the institution's backup generator;
 - .2 be connected to an Uninterruptable Power Supply (UPS) that can maintain system operation for at least sixty minutes – provision of a new UPS or available capacity on an existing UPS will be defined in the request for proposal;
 - .3 be configured to shut down when the UPS is operating from batteries and a low battery signal is output by the UPS;

APPENDIX B - WIRING TECHNICAL REQUIREMENTS

1 INSTALLATION

1.1 All Cabling

- .1 Low voltage cabling (less than 50V AC or DC) must be run in separate conduits or cable trays from power cabling.
- .2 All cable infrastructure must be protected from or entirely free from burrs and other sharp edges.
- .3 All new cable runs must be continuous without splices.
- .4 All cable must have sufficient slack to allow a minimum of three (3) reconnections with new connectors.
- .5 All cables in junction boxes must have a maximum of a single loop of slack (not folded).
- .6 Electrical tape, masking tape, or its equivalent must NOT be used on cables or any installed equipment.
- .7 Upon identification by the Technical Authority or delegate all redundant cables, and conduit must be removed and disposed of in accordance with any applicable federal or provincial regulations.
- .8 Upon determination by the Technical Authority or delegate, any damage to remaining or new cables, conduits, or equipment caused by the removal of redundant cables and conduit must be repaired or replaced at the contractor's expense.

1.2 Low Voltage Cabling (less than 50V AC or DC)

- .1 All low voltage cabling must be installed and tested in accordance with a structured cabling standard compliant with TIA/EIA-568 version B or later.
- .2 All low voltage cables must be FT4 fire rated.
- .3 All installed low voltage cables must be run through conduit and/or in cable trays. An installed cable is a cable that runs farther than the adjacent equipment rack. Equipment racks must be abutting, without side panels to be considered adjacent.
- .4 All premise low voltage cables must be terminated at a patch panel in the equipment racks.
- .5 All new and reused existing network cabling must be tested with a certified cable analyzer and the test results must include:
 - .1 origin and destination of the cable;
 - .2 wire map – pass/fail;
 - .3 propagation delay – pass/fail;
 - .4 cable length – length in metres and pass/fail;
 - .5 insertion loss – dB loss and pass/fail;
 - .6 return loss – dB loss and pass/fail;
 - .7 NEXT (Near End Crosstalk) – pass/fail;
 - .8 ELFEXT (Equal Level Far-End Crosstalk) – pass/fail;
- .6 All new network cabling must be Category 6 or better.
- .7 All network patch cables must be stranded cable.
- .8 All network premises cables must be solid conductor.
- .9 All network camera connections must NOT use patch cables.
- .10 All network camera connections must be terminated directly on the premises cables with:
 - .1 solid conductor Category 6 rated RJ45 connectors; or
 - .2 factory assembled stranded pigtails with Category 6 rated RJ45 connectors;

- .11 All new (including unused fibres) and reused existing fibre optic cabling must be tested with a certified fibre optic analyzer and the test results must include:
 - .1 origin and destination of the cable;
 - .2 light loss – dB loss and pass/fail;
 - .3 cable length – length in metres and pass/fail;
- .12 If fibre optic cabling is required, all new fibre optic cabling must be OM-3 50/125µm unless otherwise specified in the Request for Proposal.
- .13 If fibre optic cabling is required, all new fibre interconnections should try to be geographically redundant (separate fibre pairs through separate conduits to different core switches) or at a minimum logically redundant (separate fibre pairs through the same conduit to different core switches).
- .14 All reused cable must be tested prior to installation of new cabling and equipment to identify any existing deficiencies.
- .15 All failed new or reused cables must be replaced as part of the project.
- .16 All network and fibre optic cabling must have a bright green jacket.
- .17 All cabling must have a warranty duration of twenty (20) or more years.

1.3 Power Cabling

- .1 All power cabling installation must be installed in accordance with CSA guidelines, and national and provincial electrical codes.
- .2 All power cabling termination blocks must have a protective guard.
- .3 Surge suppression type lightning arrestors must be installed on all cables at the building perimeter.
- .4 All ground conductor to ground rod connections must be done with thermic welding.
- .5 External, “wall wart” style AC power adapters where the electronics forms a fixed unit with the AC plug must NOT be used.

1.4 Connections

- .1 All connections, terminations, and cross connections must be made in enclosures or equipment rooms.
- .2 All joins or splices must be soldered and encased in waterproof heat shrink tubing.
- .3 Marette type connectors must NOT be used.
- .4 All connection solder flux residue must be cleaned-up.
- .5 Acid based solder flux must NOT be used.
- .6 All cable shielding must be secured against fraying.
- .7 All connectors must be a locking type.
- .8 All connections must be in an accessible location.
- .9 Crimp connections must NOT be used with solid conductor wire.

1.5 Termination Blocks

- .1 All wires in multi-conductor cables terminating at a block must terminate on the block.
- .2 All unused wires must be grounded.
- .3 Wires must not cross the face of a block.
- .4 All power wiring must use terminal lugs with termination blocks.
- .5 All connections to screw terminals must use spade terminal lugs unless otherwise specified.
- .6 Each spade terminal lug must connect to only a single wire excluding cases where wires do not need to be disconnected for servicing.
- .7 No more than two (2) spade terminal lugs must be connected to a screw thread terminal.

- .8 No bare wire must be visible between the spade terminal lug and the wire.
- .9 All blocks must be secured to a hard surface using mechanical fasteners.
- .10 Stranded conductors must NOT be used with BIX or other Insulation displacement termination blocks.

1.6 Labelling

- .1 Labels must be applied to:
 - .1 all cables within 0.3 metres of each end;
 - .2 all cables at any access point. e.g. pull box, wall shaft opening;
 - .3 all conduit runs using bright green labels at least every 3.5m and within 0.3m of any wall penetration;
 - .4 all wires at a termination block;
 - .5 all termination blocks;
 - .6 all enclosures using bright green labels;
 - .7 all racks;
- .2 All wire and cable labels must be:
 - .1 machine printed;
 - .2 mounted with clear heat shrink tubing;

1.7 Conduits and Cable Trays

- .1 All metallic conduit installation must be free from burrs or sharp edges.
- .2 Cable trays must be:
 - .1 continuous;
 - .2 metal;
 - .3 equipped with covers;
- .3 Cable runs in inmate accessible areas should be minimized by using existing pipe chases and in-wall conduits.
- .4 All indoor cable runs in inmate accessible areas less than 4m from the floor and less than 4m from any balcony, must be:
 - .1 in Galvanized Rigid Conduit;
 - .2 surface mounted and strapped with two-hole mounting straps every 5 feet.
- .5 All other indoor cable runs must be in either cable trays or Electrical Metallic Tubing or better conduit.
- .6 All outdoor, above ground cable runs must:
 - .1 be in Galvanized Rigid Conduit;
 - .2 include expansion joints where the expected expansion exceeds 0.25" between two fixed points;
- .7 All underground cable runs must
 - .1 be in Rigid Nonmetallic Conduit;
 - .2 have a minimum six inch wide marker tape above it in the back fill at least 50cm above the conduit where possible.
 - .3 be encased in poured concrete when passing under a road;
- .8 Liquid-tight flexible metal conduit with a maximum length of one (1) metre may be used for edge device connections in non-inmate areas.

- .9 Outdoor non-sensor cables located on a fence must:
 - .1 be positioned within 10cm of the top rail of the fence;
 - .2 be UV-rated for outdoor use;

1.8 Cable Dressing

- .1 All cabling in equipment racks, cable trays, junction boxes, and at edge devices will be dressed using Velcro style “hook and loop” re-useable straps.
- .2 Cable straps must encircle all the cables in a given bundle.
- .3 Vertical cable runs in an equipment rack must be:
 - .1 strapped at least every thirty (30) cm;
 - .2 run in the side panel area;
- .4 If a tie-wrap is used to secure any new cable, the contractor must replace the entire cable at their expense as the conductors may have been damaged.
- .5 All cables entering from the top of the rack must be routed to the base of the rack before returning to the termination point.
- .6 All cables entering a rack must have sufficient slack to allow a connection to be made anywhere in the rack.
- .7 All cables connected to sliding rack elements must provide sufficient additional slack to allow sliding elements to be fully extended without disconnecting the cable from the equipment.

1.9 Outdoor Enclosures

- .1 Outdoor enclosures, including cable entries, must
 - .1 meet NEMA 4X or IP66 or better when installed;
 - .2 be lockable;
 - .3 be mounted at least three (3) feet above grade or floor;
 - .4 be secured to existing structures or stub pole supports;
- .2 All enclosures grouted in concrete must include a drain hole.

1.10 Restoration

- .1 Cut, opened, or damaged walls and removed conduit holes must be patched and painted to match the existing colour.
- .2 Exposed conduit in office and staff work areas must be painted to match the existing colour.

APPENDIX C - INSTALLATION STANDARDS

1 INSTALLATION

1.1 Tools, Equipment, and Materials

- .1 The contractor must be responsible for shipment and delivery of all tools, equipment, and materials to the site.
- .2 All shipment labelling must appear on a minimum of two (2) locations on each package.
- .3 All shipment labelling must include:
 - .1 “FRAGILE” where applicable;
 - .2 complete name of the institution;
 - .3 complete name of the institutional representative;
 - .4 complete shipping address;
 - .5 description of the contents;
- .4 All electronic equipment must remain in the original packaging material until the equipment is installed.
- .5 The contractor must:
 - .1 secure all tools, equipment, and materials prior to the end of each work day;
 - .2 ensure the shipment and delivery of tools, equipment, and materials to the site in good order;

1.2 Redundant Electronics

- .1 If there are any redundant electronics, the contractor must identify and provide identification of the redundant electronics to the Technical Authority or delegate at least 2 weeks prior to removal.
- .2 The Technical Authority or delegate will confirm within one week of receipt of the identified redundant equipment that the equipment may be removed.
- .3 Redundant electronics identification must as a minimum include:
 - .1 location;
 - .2 make;
 - .3 model;
 - .4 serial number;
- .4 All redundant electronics must be removed and handed over to the national electronic security systems maintenance representative in good condition.

1.3 Environmental

- .1 If an equipment room will contain new equipment, the contractor must:
 - .1 perform a heat load/humidity calculation;
 - .2 based on the heat load/humidity calculation, confirm the presence of or provide sufficient cooling to maintain an upper operational temperature in the equipment room of no more than 27°C for an external ambient temperature of 35°C with relative humidity of 90% while under normal operation;
 - .3 based on the heat load/humidity calculation, confirm the presence of or provide sufficient humidification to maintain a relative humidity in the equipment room of at least 40% for an external ambient temperature of -40°C with relative humidity of 40% while under normal operation;

APPENDIX D - CONTRACTOR SAFETY REGULATIONS

1 COMPLIANCE

1.1 Acts and Regulations

- .1 The Contractor must comply with the latest issue of the following specifications:
 - .1 Canadian Labour Code Part II;
 - .2 National Building Code Part VIII;
 - .3 Occupational Health and Safety Act – New Brunswick (for New Brunswick sites);
 - .4 Occupational Health and Safety Act – Ontario (for Ontario sites);
 - .5 Occupational Health and Safety Act – Alberta (for Alberta sites);
 - .6 Saskatchewan Employment Act– Saskatchewan (for Saskatchewan sites);
 - .7 Occupational Health and Safety – British Columbia (for British Columbia sites);
 - .8 WorkSafeNB – New Brunswick (for New Brunswick sites);
 - .9 Workplace Safety and Insurance Board – Ontario (for Ontario sites);
 - .10 Workers' Compensation Board – Alberta (for Alberta sites);
 - .11 Workers' Compensation Board – Saskatchewan (for Saskatchewan sites);
 - .12 WorkSafeBC – British Columbia (for British Columbia sites);
- .2 The Contractor must comply with safety regulations and procedures that are prepared by the institution and in effect at the Work site.
- .3 In the event of conflict between any provisions of the Acts, Regulations, and safety regulations and procedures, the most stringent must apply.

2 PROCESS

2.1 Safety Plan

- .1 The Contractor must
 - .1 create and maintain a site specific safety plan for each site;
 - .2 provide the safety plan in electronic .pdf format to institutional staff, and inspectors and safety officers authorized by the Acts and Regulations upon request;
- .2 The safety plan must include at a minimum:
 - .1 compliance confirmation with the location relevant Acts and Regulations above;
 - .2 a hazard(s) assessment of hazards associated with the project site;
 - .3 controls to minimize risks by identifying safe work practices, standard operating procedures, and safety inspections;
 - .4 emergency procedures in the event of an accident or incident;
 - .5 emergency contact information for ambulance, fire department, police department, and institutional safety officer;
 - .6 a communications strategy to ensure the safety plan contents are communicated with all contractor personnel and non-CSC employees entering the project site;
- .3 The Contractor must ensure that required safety training as mandated in the Acts and Regulations above, and site specific safety regulations and procedures is received by all contractor personnel and non-CSC employees entering the project site.

APPENDIX E - LOCATION PLANS

Atlantic Institution

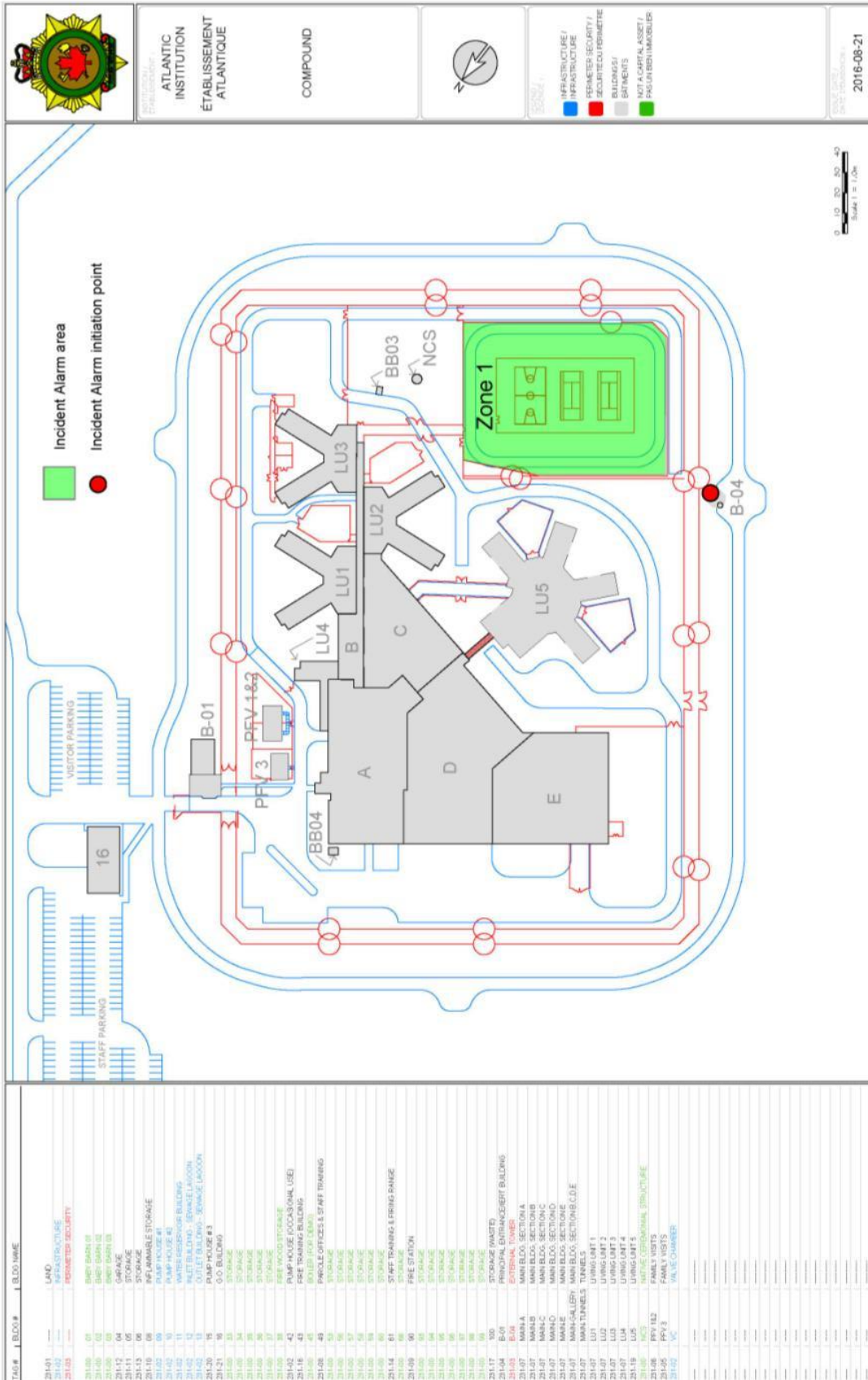
13175 Route 8
Renous, New Brunswick
E9E 2E1

NOTES

One outdoor zone (Zone 1) with one (1) initiation point.
One indoor zone (Zone 2) with five (5) initiation points.

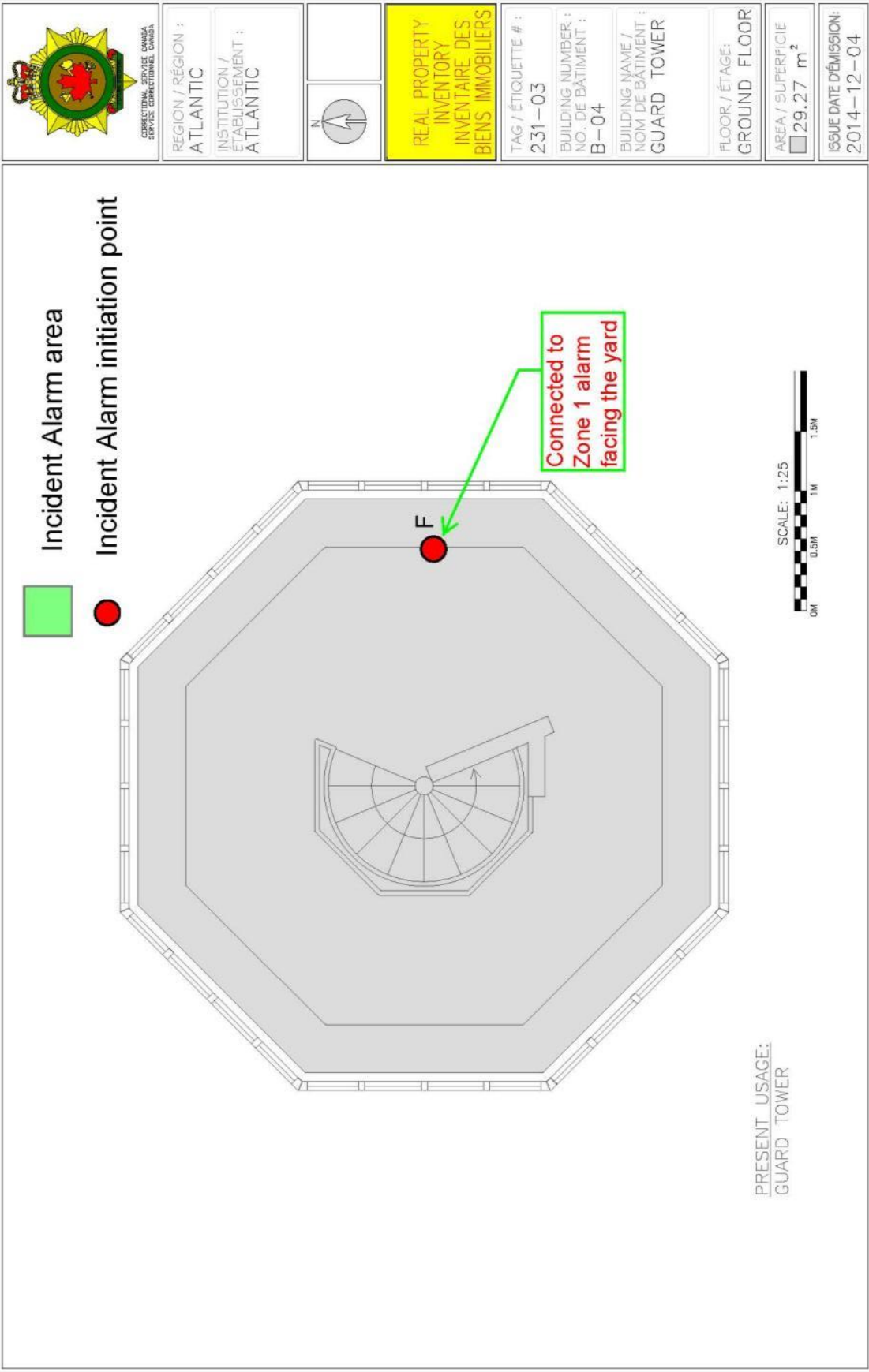
Initiation point locations

- Alarm A (Gallery observation window overlooking washroom in the gym): On right hand side of window frame.
- Alarm B (Gallery observation window overlooking the gym): Under the PA system on the left hand side of the window
- Alarm C (Gallery observation window overlooking the gym): Under the PA system on the left hand side of the window
- Alarm D (Gallery observation window overlooking the gym): Under the PA system on the right hand side of the window
- Alarm E (Gallery observation window overlooking the weight pit): Under the PA system on the left side of the window
- Alarm F (Tower observation window overlooking the main yard): Centered and above the window frame





Statement of Work – Incident Alarm System



Millhaven Institution

Highway 33
Bath, Ontario
K0H 1G0

NOTES

One outdoor zone (Zone 1) with four (4) initiation points.
One indoor zone (Zone 2) with nine (9) initiation points.

Legend:

- INFRASTRUCTURE / INFRASTRUCTURE
- PERIMETER SECURITY / SECURITE PERIMETRIQUE
- BUILDINGS / BATIMENTS
- NOT A CAPITAL ASSET / PAS UN BIEN IMMOBILIER

Scale: 0 30m 150m

North Arrow: N

Incident Alarm area (Green square)

Incident Alarm initiation point (Red dot)

Zone 1

Buildings and Areas: M-101, M-102, M-103, M-104, M-105, M-106, M-107, M-108, M-109, M-110, M-111, M-112, M-113, M-114, M-115, M-116, M-117, M-118, M-119, M-120, M-121, M-122, M-123, M-124, M-125, M-126, M-127, M-128, M-129, M-130, M-131, M-132, M-133, M-134, M-135, M-136, M-137, M-138, M-139, M-140, M-141, M-142, M-143, M-144, M-145, M-146, M-147, M-148, M-149, M-150, M-151, M-152, M-153, M-154, M-155, M-156, M-157, M-158, M-159, M-160, M-161, M-162, M-163, M-164, M-165, M-166, M-167, M-168, M-169, M-170, M-171, M-172, M-173, M-174, M-175, M-176, M-177, M-178, M-179, M-180, M-181, M-182, M-183, M-184, M-185, M-186, M-187, M-188, M-189, M-190, M-191, M-192, M-193, M-194, M-195, M-196, M-197, M-198, M-199, M-200, M-201, M-202, M-203, M-204, M-205, M-206, M-207, M-208, M-209, M-210, M-211, M-212, M-213, M-214, M-215, M-216, M-217, M-218, M-219, M-220, M-221, M-222, M-223, M-224, M-225, M-226, M-227, M-228, M-229, M-230, M-231, M-232, M-233, M-234, M-235, M-236, M-237, M-238, M-239, M-240, M-241, M-242, M-243, M-244, M-245, M-246, M-247, M-248, M-249, M-250, M-251, M-252, M-253, M-254, M-255, M-256, M-257, M-258, M-259, M-260, M-261, M-262, M-263, M-264, M-265, M-266, M-267, M-268, M-269, M-270, M-271, M-272, M-273, M-274, M-275, M-276, M-277, M-278, M-279, M-280, M-281, M-282, M-283, M-284, M-285, M-286, M-287, M-288, M-289, M-290, M-291, M-292, M-293, M-294, M-295, M-296, M-297, M-298, M-299, M-300, M-301, M-302, M-303, M-304, M-305, M-306, M-307, M-308, M-309, M-310, M-311, M-312, M-313, M-314, M-315, M-316, M-317, M-318, M-319, M-320, M-321, M-322, M-323, M-324, M-325, M-326, M-327, M-328, M-329, M-330, M-331, M-332, M-333, M-334, M-335, M-336, M-337, M-338, M-339, M-340, M-341, M-342, M-343, M-344, M-345, M-346, M-347, M-348, M-349, M-350, M-351, M-352, M-353, M-354, M-355, M-356, M-357, M-358, M-359, M-360, M-361, M-362, M-363, M-364, M-365, M-366, M-367, M-368, M-369, M-370, M-371, M-372, M-373, M-374, M-375, M-376, M-377, M-378, M-379, M-380, M-381, M-382, M-383, M-384, M-385, M-386, M-387, M-388, M-389, M-390, M-391, M-392, M-393, M-394, M-395, M-396, M-397, M-398, M-399, M-400, M-401, M-402, M-403, M-404, M-405, M-406, M-407, M-408, M-409, M-410, M-411, M-412, M-413, M-414, M-415, M-416, M-417, M-418, M-419, M-420, M-421, M-422, M-423, M-424, M-425, M-426, M-427, M-428, M-429, M-430, M-431, M-432, M-433, M-434, M-435, M-436, M-437, M-438, M-439, M-440, M-441, M-442, M-443, M-444, M-445, M-446, M-447, M-448, M-449, M-450, M-451, M-452, M-453, M-454, M-455, M-456, M-457, M-458, M-459, M-460, M-461, M-462, M-463, M-464, M-465, M-466, M-467, M-468, M-469, M-470, M-471, M-472, M-473, M-474, M-475, M-476, M-477, M-478, M-479, M-480, M-481, M-482, M-483, M-484, M-485, M-486, M-487, M-488, M-489, M-490, M-491, M-492, M-493, M-494, M-495, M-496, M-497, M-498, M-499, M-500, M-501, M-502, M-503, M-504, M-505, M-506, M-507, M-508, M-509, M-510, M-511, M-512, M-513, M-514, M-515, M-516, M-517, M-518, M-519, M-520, M-521, M-522, M-523, M-524, M-525, M-526, M-527, M-528, M-529, M-530, M-531, M-532, M-533, M-534, M-535, M-536, M-537, M-538, M-539, M-540, M-541, M-542, M-543, M-544, M-545, M-546, M-547, M-548, M-549, M-550, M-551, M-552, M-553, M-554, M-555, M-556, M-557, M-558, M-559, M-560, M-561, M-562, M-563, M-564, M-565, M-566, M-567, M-568, M-569, M-570, M-571, M-572, M-573, M-574, M-575, M-576, M-577, M-578, M-579, M-580, M-581, M-582, M-583, M-584, M-585, M-586, M-587, M-588, M-589, M-590, M-591, M-592, M-593, M-594, M-595, M-596, M-597, M-598, M-599, M-600, M-601, M-602, M-603, M-604, M-605, M-606, M-607, M-608, M-609, M-610, M-611, M-612, M-613, M-614, M-615, M-616, M-617, M-618, M-619, M-620, M-621, M-622, M-623, M-624, M-625, M-626, M-627, M-628, M-629, M-630, M-631, M-632, M-633, M-634, M-635, M-636, M-637, M-638, M-639, M-640, M-641, M-642, M-643, M-644, M-645, M-646, M-647, M-648, M-649, M-650, M-651, M-652, M-653, M-654, M-655, M-656, M-657, M-658, M-659, M-660, M-661, M-662, M-663, M-664, M-665, M-666, M-667, M-668, M-669, M-670, M-671, M-672, M-673, M-674, M-675, M-676, M-677, M-678, M-679, M-680, M-681, M-682, M-683, M-684, M-685, M-686, M-687, M-688, M-689, M-690, M-691, M-692, M-693, M-694, M-695, M-696, M-697, M-698, M-699, M-700, M-701, M-702, M-703, M-704, M-705, M-706, M-707, M-708, M-709, M-710, M-711, M-712, M-713, M-714, M-715, M-716, M-717, M-718, M-719, M-720, M-721, M-722, M-723, M-724, M-725, M-726, M-727, M

ROOM INDEX

S01	SEGREGATION CELL
S02	SEGREGATION CELL
S03	SEGREGATION CELL
S04	SEGREGATION CELL
S05	SEGREGATION CELL
S06	SEGREGATION CELL
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S00	SEGREGATION CELL

Zone 2

Incident Alarm area

Incident Alarm initiation point

FIRST FLOOR PLAN

CELL UNIT G

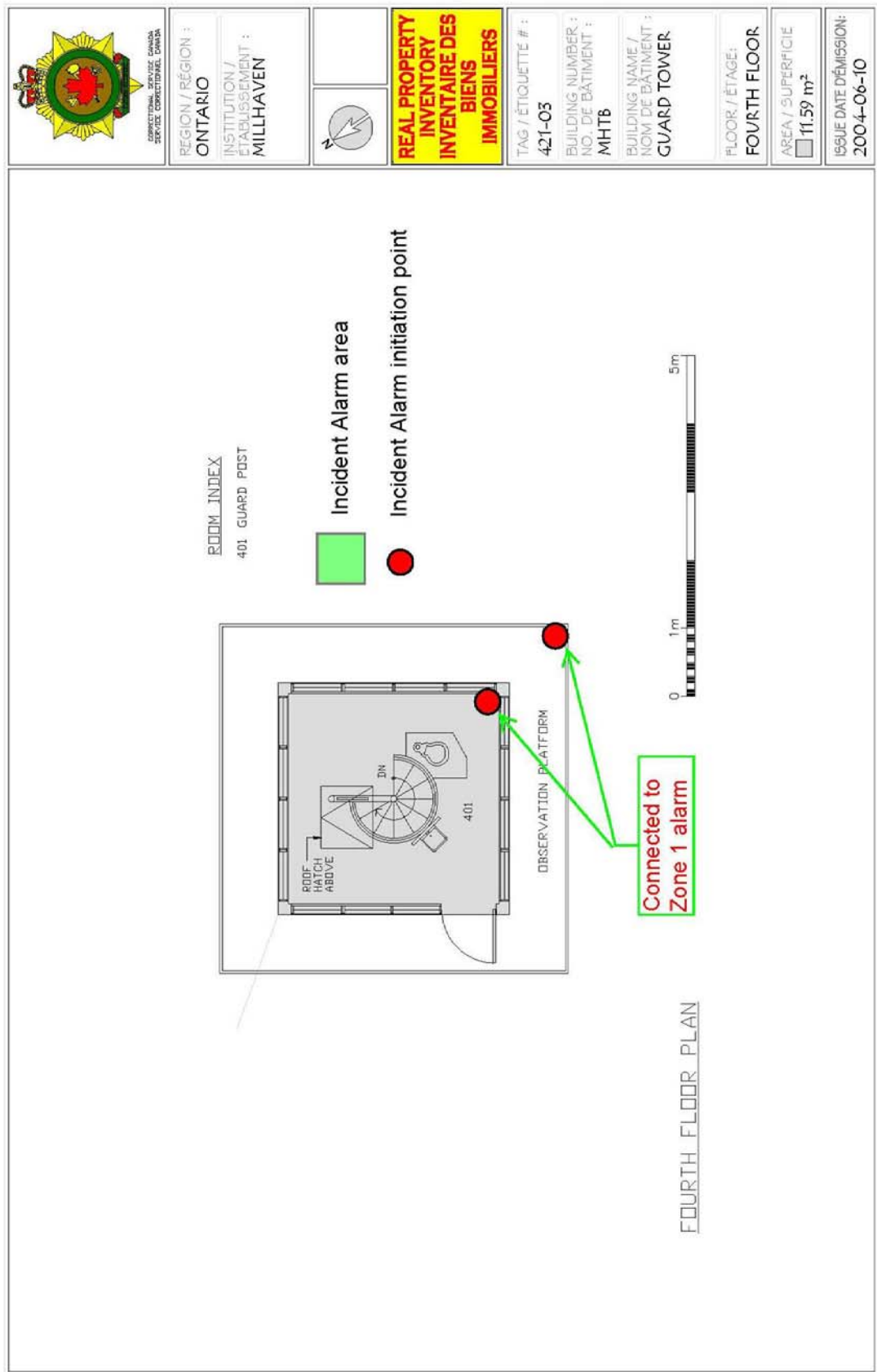
PASSAGE R

MHR

CELL UNIT B

CELL UNIT C

[illegible]



Saskatchewan Penitentiary

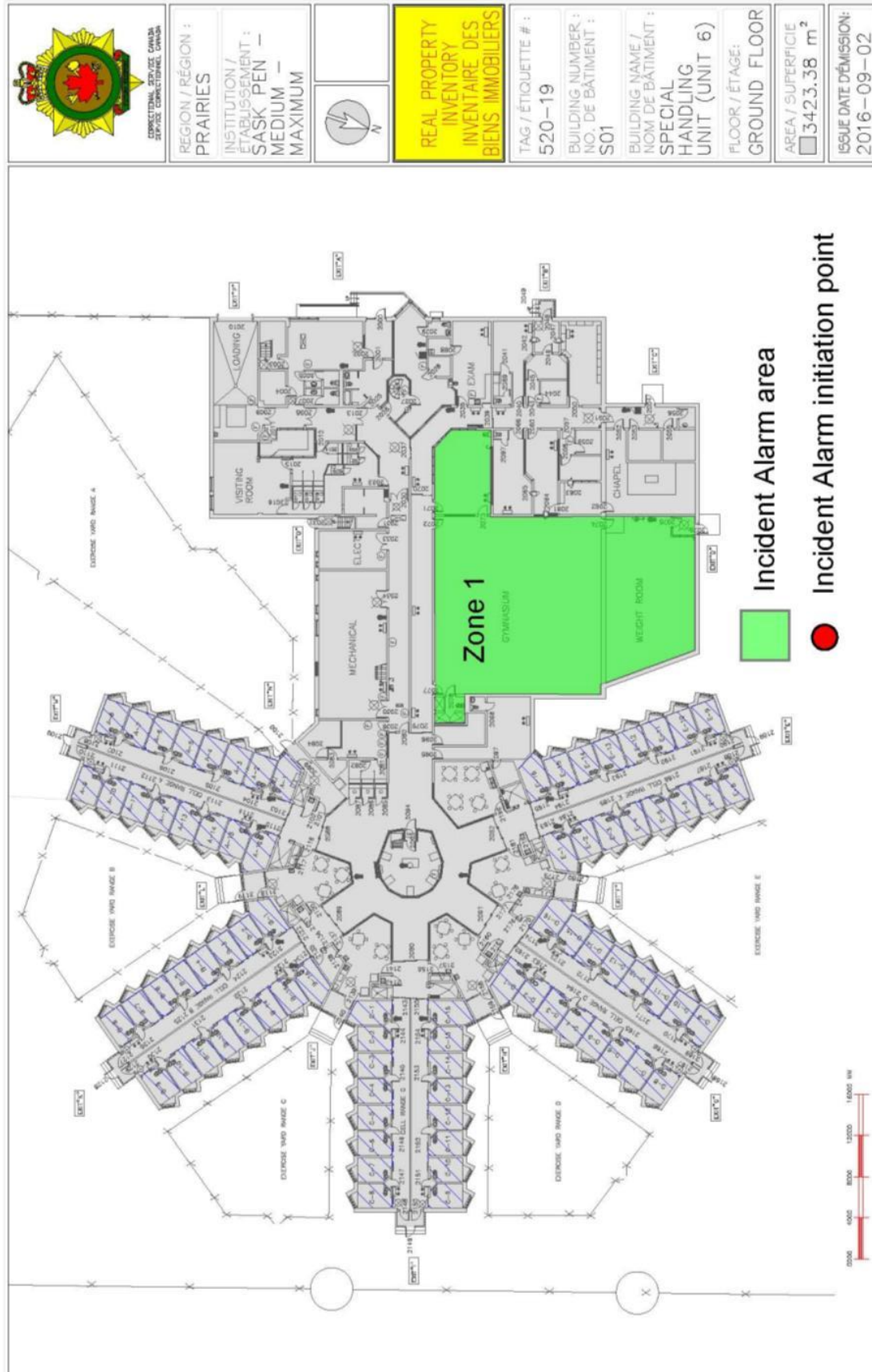
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Prince Albert, Saskatchewan
S6V 5R6

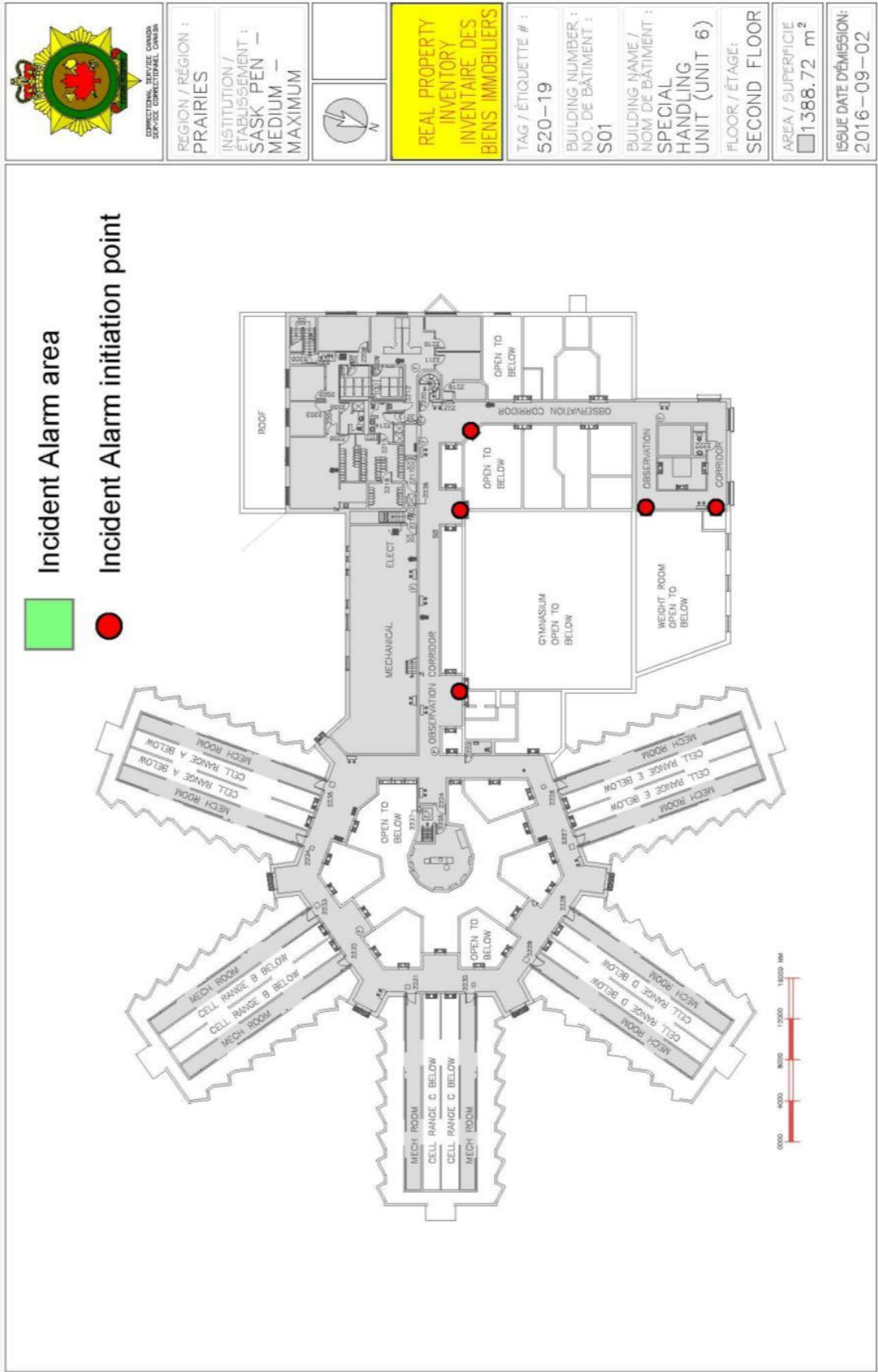
NOTES

One indoor zone with five (5) initiation points.

Statement of Work – Incident Alarm System







Edmonton Institution

21611 Meridian Street
Edmonton, Alberta
T5Y 6E7

NOTES

One outdoor zone (Zone 1) with three (3) initiation points.
One indoor zone (Zone 2) with fourteen (14) initiation points.

LEGEND

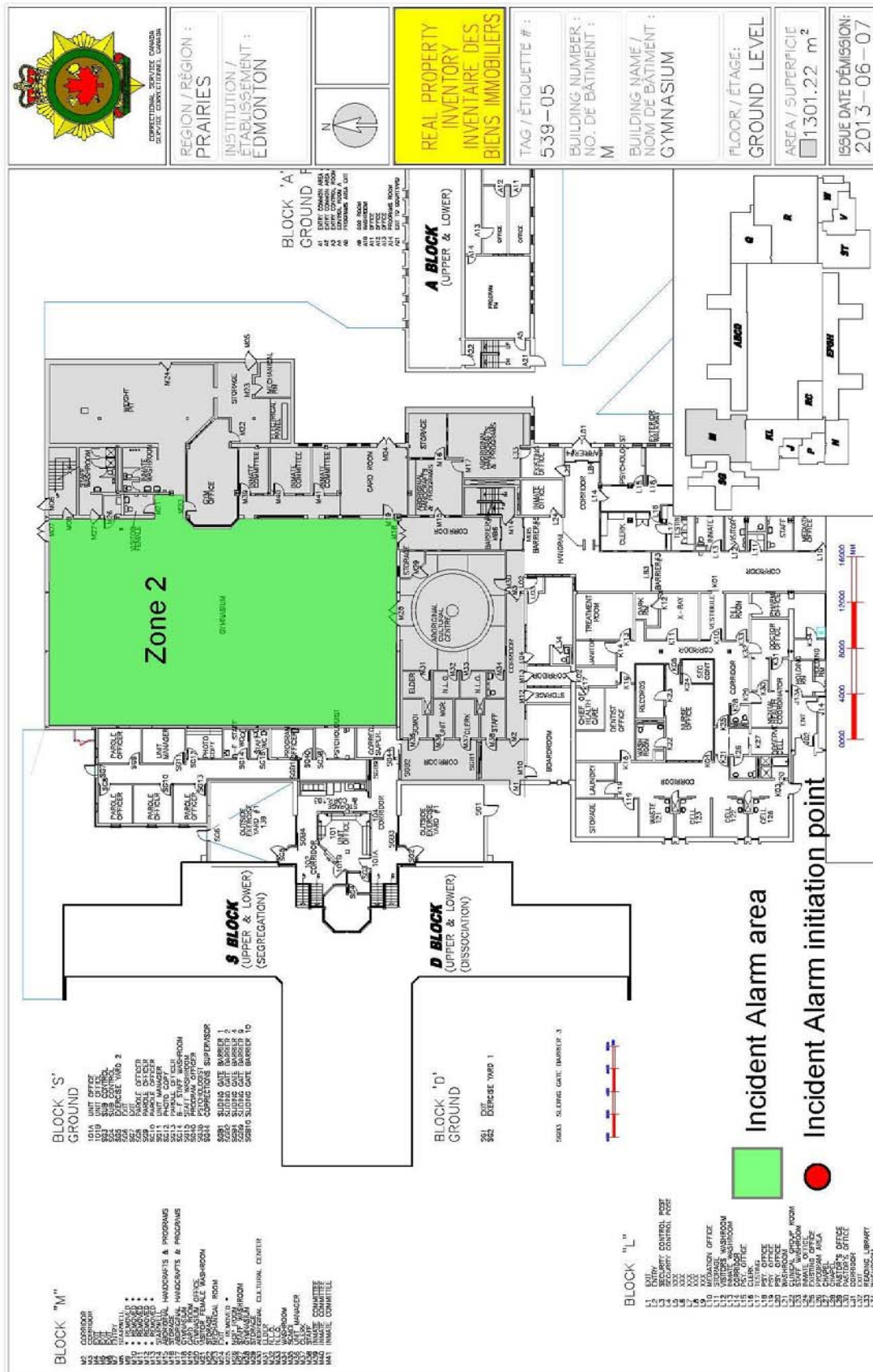
- INFRASTRUCTURE / INFRASTRUCTURE
- PERIMETER SECURITY / SÉCURITÉ DU PÉRIMÈTRE
- BUILDINGS / BÂTIMENTS
- NOT A CAPITAL ASSET / PAS UN BIEN IMMOBILIER

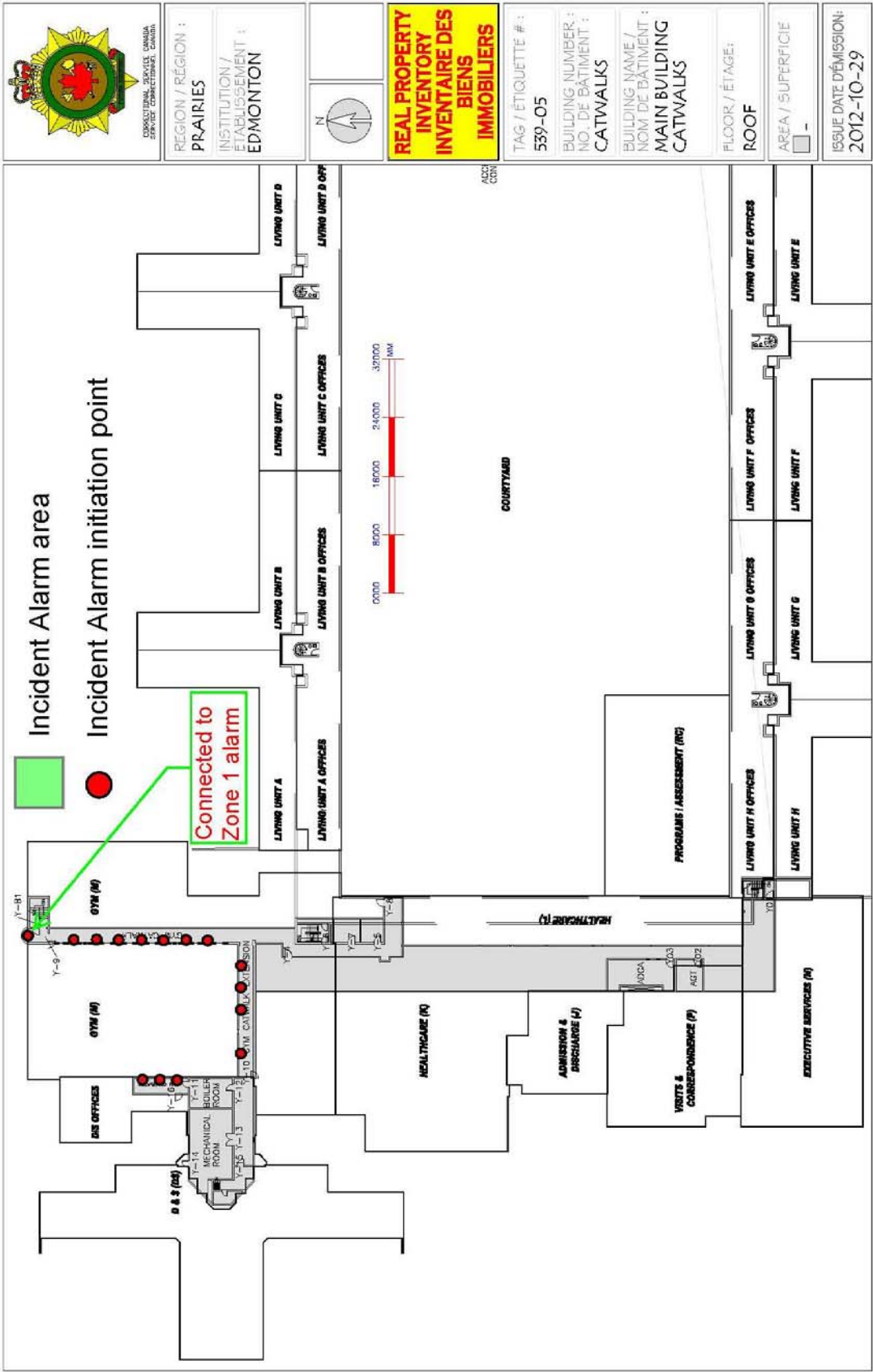
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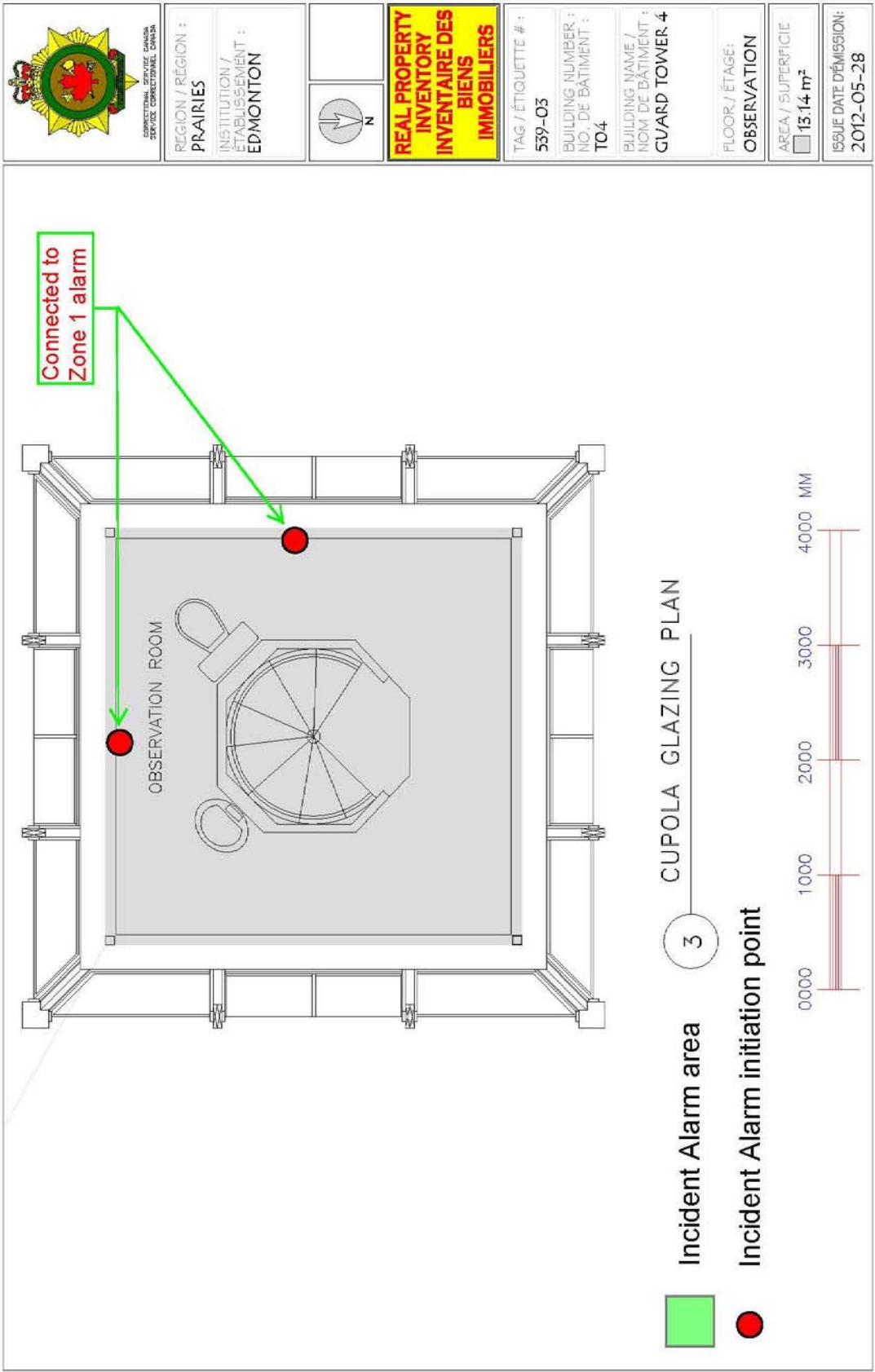
North Arrow: N

Building Codes and Descriptions:

Code	Description
533-01	LAND
533-02	INFRASTRUCTURE
533-03	PERIMETER SECURITY
533-04	WAREHOUSE/GARAGE
533-05	ADMINISTRATION
533-06	WEAPONS RANGE
533-07	RECREATION BUILDING
533-08	PLANT HOUSE
533-09	LIVING UNITS A/D
533-10	CULTURAL CENTRE
533-11	RECREATION BUILDING
533-12	LIVING UNITS B/F
533-13	RECREATION BUILDING
533-14	LIVING UNITS C/H
533-15	RECREATION BUILDING
533-16	LIVING UNITS D/I
533-17	RECREATION BUILDING
533-18	LIVING UNITS E/J
533-19	RECREATION BUILDING
533-20	LIVING UNITS F/K
533-21	RECREATION BUILDING
533-22	LIVING UNITS G/L
533-23	RECREATION BUILDING
533-24	LIVING UNITS H/M
533-25	RECREATION BUILDING
533-26	LIVING UNITS I/N
533-27	RECREATION BUILDING
533-28	LIVING UNITS J/O
533-29	RECREATION BUILDING
533-30	LIVING UNITS K/P
533-31	RECREATION BUILDING
533-32	LIVING UNITS L/Q
533-33	RECREATION BUILDING
533-34	LIVING UNITS M/R
533-35	RECREATION BUILDING
533-36	LIVING UNITS N/S
533-37	RECREATION BUILDING
533-38	LIVING UNITS O/T
533-39	RECREATION BUILDING
533-40	LIVING UNITS P/U
533-41	RECREATION BUILDING
533-42	LIVING UNITS Q/V
533-43	RECREATION BUILDING
533-44	LIVING UNITS R/W
533-45	RECREATION BUILDING
533-46	LIVING UNITS S/X
533-47	RECREATION BUILDING
533-48	LIVING UNITS T/Y
533-49	RECREATION BUILDING
533-50	LIVING UNITS U/Z
533-51	RECREATION BUILDING
533-52	LIVING UNITS V/A
533-53	RECREATION BUILDING
533-54	LIVING UNITS W/B
533-55	RECREATION BUILDING
533-56	LIVING UNITS X/C
533-57	RECREATION BUILDING
533-58	LIVING UNITS Y/D
533-59	RECREATION BUILDING
533-60	LIVING UNITS Z/E
533-61	RECREATION BUILDING
533-62	LIVING UNITS A/F
533-63	RECREATION BUILDING
533-64	LIVING UNITS B/G
533-65	RECREATION BUILDING
533-66	LIVING UNITS C/H
533-67	RECREATION BUILDING
533-68	LIVING UNITS D/I
533-69	RECREATION BUILDING
533-70	LIVING UNITS E/J
533-71	RECREATION BUILDING
533-72	LIVING UNITS F/K
533-73	RECREATION BUILDING
533-74	LIVING UNITS G/L
533-75	RECREATION BUILDING
533-76	LIVING UNITS H/M
533-77	RECREATION BUILDING
533-78	LIVING UNITS I/N
533-79	RECREATION BUILDING
533-80	LIVING UNITS J/O
533-81	RECREATION BUILDING
533-82	LIVING UNITS K/P
533-83	RECREATION BUILDING
533-84	LIVING UNITS L/Q
533-85	RECREATION BUILDING
533-86	LIVING UNITS M/R
533-87	RECREATION BUILDING
533-88	LIVING UNITS N/S
533-89	RECREATION BUILDING
533-90	LIVING UNITS O/T
533-91	RECREATION BUILDING
533-92	LIVING UNITS P/U
533-93	RECREATION BUILDING
533-94	LIVING UNITS Q/V
533-95	RECREATION BUILDING
533-96	LIVING UNITS R/W
533-97	RECREATION BUILDING
533-98	LIVING UNITS S/X
533-99	RECREATION BUILDING
533-100	LIVING UNITS T/Y
533-101	RECREATION BUILDING
533-102	LIVING UNITS U/Z
533-103	RECREATION BUILDING
533-104	LIVING UNITS V/A
533-105	RECREATION BUILDING
533-106	LIVING UNITS W/B
533-107	RECREATION BUILDING
533-108	LIVING UNITS X/C
533-109	RECREATION BUILDING
533-110	LIVING UNITS Y/D
533-111	RECREATION BUILDING
533-112	LIVING UNITS Z/E
533-113	RECREATION BUILDING
533-114	LIVING UNITS A/F
533-115	RECREATION BUILDING
533-116	LIVING UNITS B/G
533-117	RECREATION BUILDING
533-118	LIVING UNITS C/H
533-119	RECREATION BUILDING
533-120	LIVING UNITS D/I
533-121	RECREATION BUILDING
533-122	LIVING UNITS E/J
533-123	RECREATION BUILDING
533-124	LIVING UNITS F/K
533-125	RECREATION BUILDING
533-126	LIVING UNITS G/L
533-127	RECREATION BUILDING
533-128	LIVING UNITS H/M
533-129	RECREATION BUILDING
533-130	LIVING UNITS I/N
533-131	RECREATION BUILDING
533-132	LIVING UNITS J/O
533-133	RECREATION BUILDING
533-134	LIVING UNITS K/P
533-135	RECREATION BUILDING
533-136	LIVING UNITS L/Q
533-137	RECREATION BUILDING
533-138	LIVING UNITS M/R
533-139	RECREATION BUILDING
533-140	LIVING UNITS N/S
533-141	RECREATION BUILDING
533-142	LIVING UNITS O/T
533-143	RECREATION BUILDING
533-144	LIVING UNITS P/U
533-145	RECREATION BUILDING
533-146	LIVING UNITS Q/V







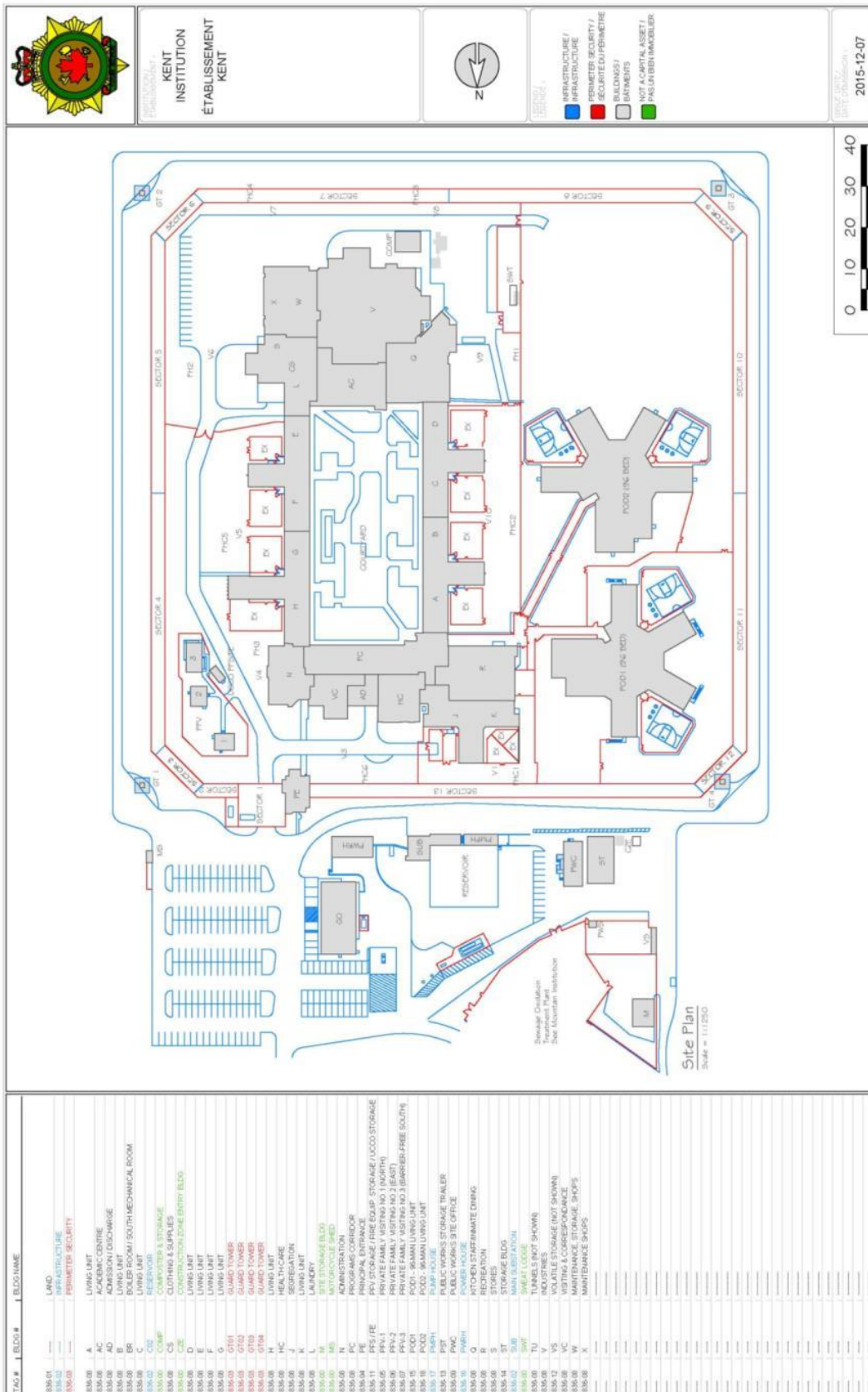
Statement of Work – Incident Alarm System

Kent Institution

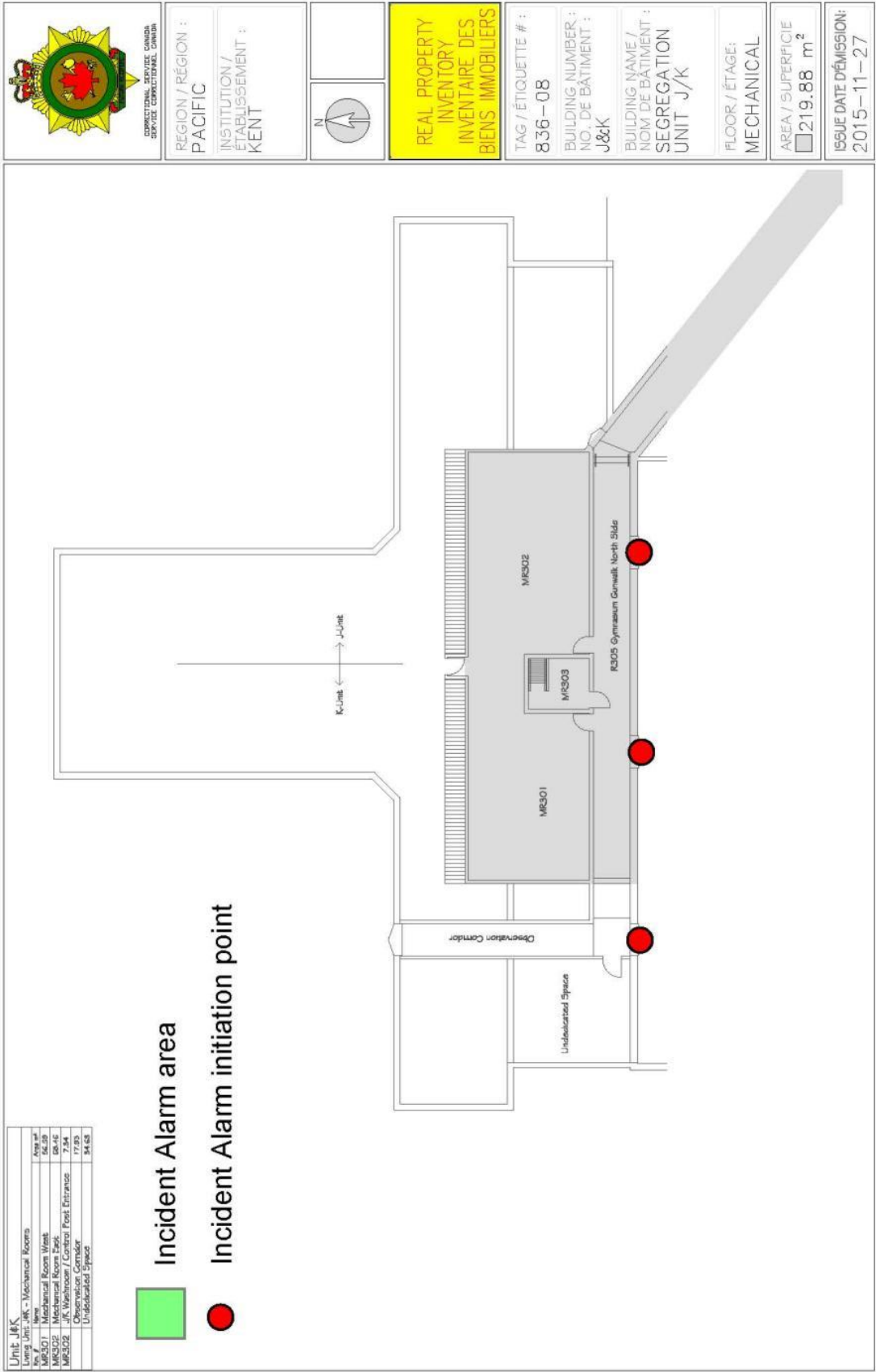
4732 Cemetery Road
Agassiz, British Columbia
V0M 1A0

NOTES

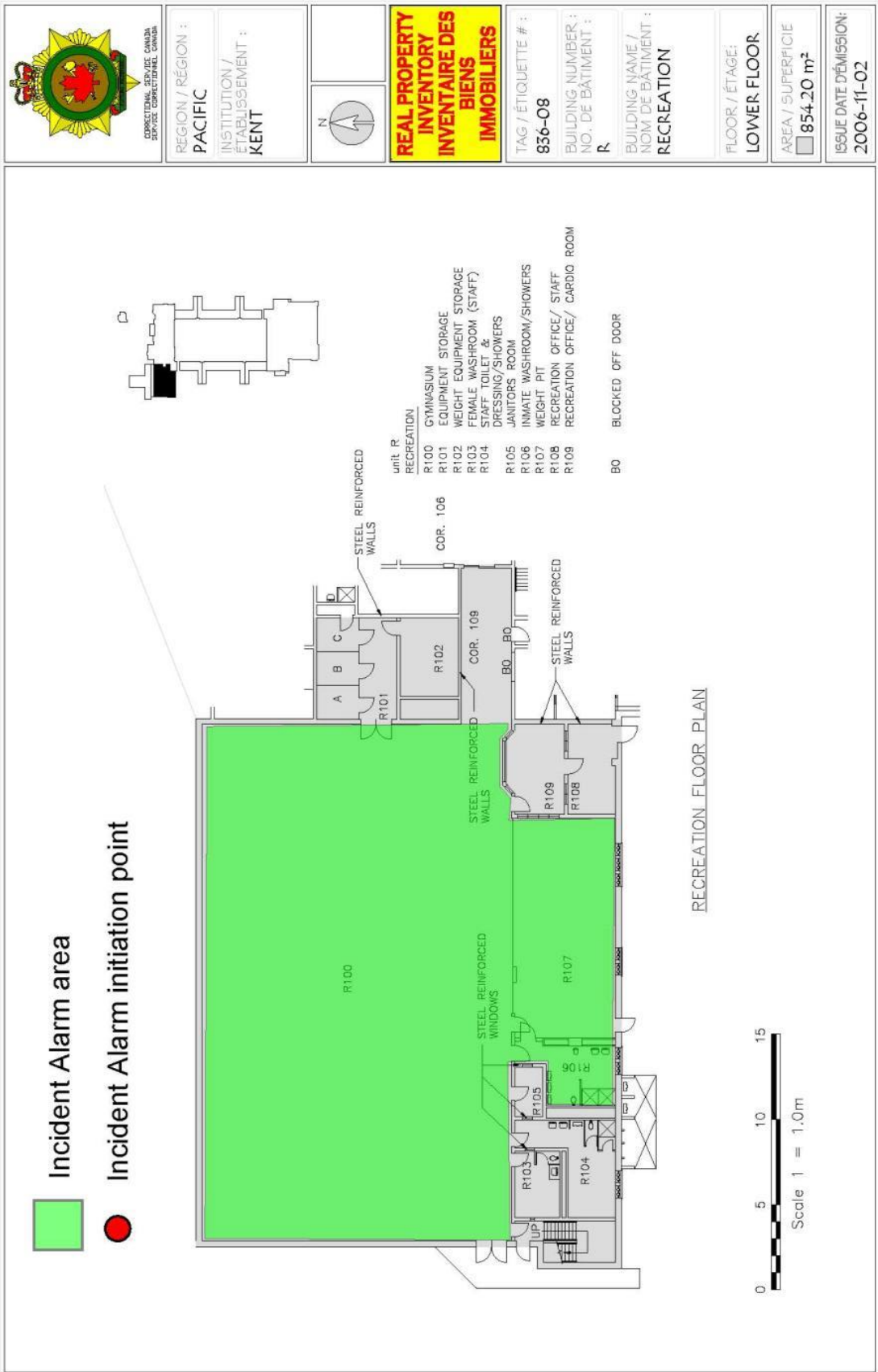
One indoor zone with eight (8) initiation points.



Statement of Work – Incident Alarm System



Statement of Work – Incident Alarm System



Incident Alarm area

Incident Alarm initiation point

unit R GC
GYMNASIUM GUNWALK
upper level

R200 GYMNASIUM GUNWALK OBSERVATION
R201 ADGA STORAGE / OBSERVATION
R202 WASHROOM
R203 VESTIBULE
R204 GYM / OBSERVATION DECK
R205 SPORTS FIELD OBSERVATION DECK

GTM AREA BELOW
R200

EXP UP STAIR
EXP DOWN STAIR

R204
R205
R201
R202
TO UNIT-A
MECHANICAL RM.

Scale 1 = 1.0m

0 5 10 15

Are there any locations looking into the weight room?