Fire Safety Plan

for:

599 Brealey Dr.
Peterborough, ON, K9J 7B1

Fleming College

The Fire-fighter's Key Box (CHUBB) location is: **Main Entrance**.

The fire safety plan approved location is: **Main Entrance**.

Fire Safety Plan Prepared By: **John Gallen**
Manager, Security, Parking
& Emergency Management

_____
Owner's Authorizing Signature

Approved By: _____
Chief Fire Official

Date Approved: _____

Table of Contents

Part 1
Introduction

A Fire Safety Plan (FSP) shall be prepared, ***approved*** and implemented in buildings regulated by Article 2.8.1.1. of the Ontario Fire Code (see submission procedures below).

Section 2.8 of the Ontario Fire Code, requires the implementation of a FIRE SAFETY PLAN for this building/occupancy. The FSP is required to be kept in the building in an ***approved*** location.

The implementation of the Fire Safety Plan helps to ensure effective utilization of life safety features in a building to protect people from fire. The required Fire Safety Plan shall be designed to suit the resources of each individual building or complex of buildings.

It is the responsibility of the owner to ensure that the information contained within the Fire Safety Plan is accurate and complete. As required by the Fire Code, the Fire Safety Plan must be reviewed as often as necessary, but at intervals not greater than 12 months to ensure that it takes account of changes in the use and other characteristics of the building (*Ontario Fire Code 2.8.2.1.(4) of Division B*). As defined in the Ontario Fire Code, "Owner" means any person, firm or corporation having control over any portion of the building or property under consideration and includes the persons in the building or property.

The Fire Protection and Prevention Act, 1997, Part VII, Section 28, states that in the case of an offence for contravention of the fire code, a corporation is liable to a fine of not more than $100,000 and an individual person, a director or officer of a corporation is liable to a fine of not more than $50,000 or imprisonment for a term of not more than one year or both.

This official document is to be kept readily available at all times for use by staff and fire officials in the event of an emergency.

The Fire safety Plan is also used to provide training to the building's supervisory staff who must have received instructions in the fire safety procedures as described in the plan before they are given any responsibility for fire safety. Supervisory staff shall be available on notification of a fire emergency to fulfil their obligation as described in the fire safety plan, although it is not necessary that supervisory staff be in the building on a continual basis.

SUBMISSION PROCEDURES

At least two (2) copies of the Fire Safety Plan (8 ½ X 11 format) must be submitted to the Chief Fire Official. Upon approval, one copy will be returned to the author and one copy will be retained by the Fire Department. A copy of the plan returned to the author must be placed on site in the approved location as noted on the cover page.

Note: Whenever you see the word "*approved"*, it means "*Approved by the Chief Fire Official"* and in this case, by the Fire Department official who approved and signed this plan.

The Chief Fire Official is to be notified regarding any subsequent changes in the approved Fire Safety Plan.

Part 2
Audit of Human Resources

Business/Building Name: Fleming College, Sutherland Campus

Municipal Address: 599 Brealey Dr. Peterborough, ON, K9H 0C1

Business Phone Number: 705-749-5530 **Business Fax Number:** 705-740-5540

Building Owner: N/A

Mailing Address:

Phone Number(s): **Work:** **Fax No:**

Cell:

Home: **Email:**

Business Owner: N/A

Mailing Address:

Phone Number(s): **Work:** **Fax No:**

Cell:

Home: **Email:**

Property Management Company: ☒ No ☐ Yes

Company Name:

Address:

Phone Number(s): **Work:** **Fax No:**

Contact Person: **Cell:**

Home: **Email:**

After Hour Emergency Contacts (24 hour telephone numbers)

(Contacts normally called in order of nearness to the property for quickest response. Home address and phone number required to fulfil responsibilities.)

Name: Campus Security Home #: N/A Cell #: N/A

Position: Security Pager #: N/A Other: 705-740-5530 extension 8000

Address: 599 Brealey Dr. Peterborough, ON, K9H 0C1

Name: Mike Peart Home #: N/A Cell #: [redacted]

Position: Facilities Manager Pager #: N/A Other: 705-749-5530 extension 1508

Name: John Gallen Home #: N/A Cell #: [redacted]

Position: Security Manager Pager #: N/A Other: 705-749-5530 extension 1191

Name: Terry Williams Home #: N/A Cell #: [redacted]

Position: Director, Facilities Pager #: N/A Other: 705-749-5530 extension 1328

Other Key Contacts

Fire Alarm Monitoring Company:	Trent Security Systems	Phone: 705-748-2001
Fire Alarm Company:	Troy Life & Fire Safety	Phone: 1-877-441-8769
Sprinkler Company:	Troy Life & Fire Safety	Phone: 1-877-441-8769
Fire Extinguisher Company:	Troy Life & Fire Safety	Phone: 1-877-441-8769
Security Company:	Paladin Security	Phone: 705-749-5530 ext 8000
Electrical Contractor:	Peterborough Industrial	Phone: 705-743-3166

Part 3
Audit of Building Resources Checklist

Occupancy Type: A2 Assembly **Occupant Load:** N/A (if applicable)

Building Height in Storeys: 3 **Storey(s) Below Grade:** 1

Year Built: 1971 **Additions/Renovations:** 11

Building Construction: Non-combustable (steel, post and beam, curtain wall/concrete)

Fire Department Access

Brief Description of Fire Dept. Access to Building:

There are two access points where Fire Deparment can access the building:

1. Main Door (Primary) Chubb Box with key Fire Safety Plan Box & Annunciator inside door
2. D Wing Entrance Chubb Box with key Fire Safety Plan Box & Annunciator inside door

Fire Access Routes and access panels or windows provided to facilitate access for firefighting operations shall not be obstructed by vehicles, gates, fences, building materials, vegetation, signs or any other form of obstruction.

Designated Fire Route: ☐ No ☒ Yes

Nearest Municipal Hydrant Location:

1. Main Door (Primary) West end of the berm with the flag pole by Main Door.
2. D Wing Entrance

Private Hydrants: ☐ No ☒ Yes (Location(s)): All hydrants on campus are private.

Fire Department Connection: ☐ No ☒ Yes (Location(s)):

1. To the left side of the Main Door
2. To the left side of D Wing Door
3. To the left side of the Steele Center pub patio.
4. To the right side of the B Wing main door (between man door and overhead door)

NOTE: Fire Dept. connections shall be equipped with plugs or caps that are secured wrench-tight.

Fire Pump: ☒ No ☐ Yes (Location(s):

Fire Pump Description:

Utilities and Shut-offs

Heating System: ☒ Natural Gas ☐ Electric ☐ Fuel Oil ☐ Other:

Main Gas Shut-off: ☐ No ☒ Yes Location(s):

1. D Wing Shipping Dock
2. B Wing West Side by the generator

Main Electrical Shut-off Location:

1. Transformer Room (C1-101 - Follow the interior ramp near Loading Dock #8)
2. D Wing (D0137.3 – near D Wing Shipping Dock)
3. Transformer on Path to St. Joseph
4. Main Electrical Pole at Brealey Dr.

Main Domestic Water Shut-off Location(s):

1. Main Shipping (Dock #8)
2. Below Steele Centre
3. D Wing Sprinkler Room (D0137.2)
4. B Wing Sprinkler Room (B2231)

Other Shut-off(s):

1.	Furnace Oil Tank	Exerior D Wing Loading Dock
2.	Diesel Fuel Tank	Exterior Maintenance Compound
3.	Gasoline Fuel Tank	Exterior Maintenance Compound
4.	Acetylene Tank	D0-137.4
5.	Argon Tank	D0-137.4
6.	Carbon Dioxide Tank	D0-137.5
7.	Liquid Oxygen Tank	D0-137.5

Fire Protection Systems

NOTE: In the event that the municipal fire department finds it necessary to reset, restore or perform emergency measures on any fire protection system, or to contact a contractor for repairs to any fire protection system, the municipality shall incur no liability or costs by such action.

Fire Alarm System: ☐ No ☒ Yes

The following information is required by Article B 6.3.2.2.(3) of Fire Code & Clause 3.6 of CAN/ULC- 536 Standard.

Type: ☒ Single Stage Alarm *(single or two)* or ☐ Interconnected Smoke Alarm System

NOTE: Interconnected smoke alarms installed as a fire alarm system shall be tested and maintained in operating condition in conformance with CAN/ULC-S552, "Standard for the Maintenance and Testing of Smoke Alarms", and as required by the Fire Code.

Where Fire Alarm Signal Monitoring is NOT provided, signage must be posted over each pull station with wording that the Fire Department must be notified in the event of an emergency and the Emergency Telephone Number (9-1-1) .

Alarm Signal Monitoring: ☐ No ☒ Yes, by Trent Security Systems

☒ Remote Monitoring Station ☐ Direct to Fire Department ☐ Proprietary Signalling System

Where the Building Code or this Code require a fire alarm system to be monitored to transmit a signal to the fire department, the building owner shall ensure the continuation of the monitoring.

Fire Alarm Manufacturer Name/Make: Chubb Edwards.

Model: EST-3

Main Panel Location: Room C1-102

Annunciator Panel Location: Main Door & D Wing Door

Emergency Power Supply for Fire Alarm: Batteries located inside the fire panel box.

NOTE: The duration of supervisory power for the fire alarm is a minimum of 24 hours followed by a full alarm operation for 5 minutes (*5, 30, 60, or 120 minutes*).

Fire Alarm Description: Zoned, Single Stage System

Fire Alarm Devices and Locations:

Manual Pull Stations: at each exit door and stairwell

Smoke Detectors: stairwells only

Heat Detectors: classrooms, offices, hallways, electrical mechanical rooms

Duct-type Smoke Detectors: in most air handleing systems

Ancillary Systems: commercial cooking equipment extinquishing systems

Sounding Devices: bells and horns in all public areas

Visual Signal Devices: in some public areas (B Wing & D Wing)

Emergency Telephones: Campus Safety phones in every classroom and hallways throughout the building

Sprinkler Flow and Valve Supervisory Switches: on a zone by zone basis

Alarm Activation: Alarm can be activated in four ways:

1. Activation of a Pull Station
2. Signal from any Detector
3. Water Pressure Drop in a sprinkler line.
4. Pressing the "Drill" button on the main panel.

Acknowledging Trouble Alarm:

Can be done by pusing the "Silence Trouble" Button (Annunciator or Main Panel)

Acknowledging Alarm Signal:

Can be done by pusing the "Acknowlege Alarm" Button (Annunciator or Main Panel)

Alarm Silencing:

1. Go to main panel in room C1-102
2. Unlock room with 458569 key – Campus Security can provide
3. Open panel door – key is in the lock
4. Press "Alarm Silence" button once.

Alarm Re-setting:

1. Go to main panel in room C1-102
2. Unlock room with 458569 key – Campus Security can provide
3. Open panel door – key is in the lock
4. Press "Alarm Silence" button once.
5.

NOTE: Fire alarm system shall not be reset until permission given by on-scene fire department personnel following an emergency response.

Voice Communication Equipment: none connected to Fire System, separate Emergency Nofication System is available via the phone system, Campus Security can access if needed.

Emergency Telephone Equipment: none

Ancillary Devices:	Sprinkler flow switches	☐ No	☒ Yes
	Air supply fan shutdown	☐ No	☒ Yes
	Magnetic door hold-open devices	☐ No	☒ Yes
	(Hold-opens must release on activation of fire alarm or power disruption)		
	Electromagnetic Locking Devices	☐ No	☒ Yes
	(*Mag-locks must release on activation of fire alarm or power disruption)*		

Manual release switch location for mag-locks: ☐ N/A Main Entrance beside Annunciator

Note: Doors equipped with magnetic locking devices must be provided with proper signage.

Location(s) throughout building:

1. Stairwell K - Rear fire exit of the Learning Resources Center (room C2
2. Stairwell K - Rear fire exit of the Library
3. Room B2299 - Lower fire exit of the Simulation Lab

Smoke Control Measures: ☒ No ☐ Yes

Automatically Shuts-Off With Activation of Fire Alarm ☐ No ☐ Yes

Sprinkler System: ☐ No ☒ Yes Type: ☒ Wet ☒ Dry ☐ Other:

Coverage Area: A Wing (parts) - B Wing (parts) – C Wing (parts) – D Wing (all)

Connected to the Fire Alarm System: ☐ No ☒ Yes

Location of Sprinkler Room/Shut Off Valves:

A3120 – A Wing Zone (located above ceiling tiles in hallway)
B2231 – B Wing Zone
C0204 – C Wing Zone
D0137.2 – D Wing Zone

Fire Department Connection: ☐ No ☒ Yes Location(s):

1. B Wing Entrance – to the right of the entrance by the roll up door
2. D Wing Entrance – to the left of the entrance by the pillar

NOTE: (i) The Chief Fire Official shall be notified when any alterations, additions or repairs are to be made involving the interruption to a sprinkler system.

(ii)Sprinkler control valves and sprinkler water supplies shall not be shut down, disconnected or otherwise impaired for more than 24 hours without notifying the Chief Fire Official

Standpipe System: ☐ No ☒ Yes Locations: hose cabinets located on every floor.

Location of Shutoff/Isolation Valves:

1. To the left of room C1-1102 (Fire Panel Room) – located behind the drinking water system
2. Inside room C0-203 – located at the bottom of stairwell leading under the Steele Center

NOTE: (i) Each Hose Connection in a standpipe system shall have a legible sign reading;
"FIRE HOSE FOR USE BY TRAINED PERSONS ONLY"

(ii) Standpipe Hose Stations shall be conspicuously identified and unobstructed, and shall be used for fire protection only.

Fire Department Connection: ☐ No ☒ Yes Location(s):

1. Main Entrance – to the left of the entrance under the pergola
2. Loading Dock #8 – to the left of the stairs leading to the dock
3. Steele Center Patio – between the patio fence and the entrance to D Wing

Portable Fire Extinguishers: Types: ABC only

Locations: See **Appendix A** for full list (Also refer to schematic drawings in Part 4)

Fixed Extinguishing System for Commercial Cooking Equipment ☐ No ☒ Yes

Type: Dry

Connected to Fire Alarm System: ☐ No ☒ Yes

Fuel Source: ☒ Natural Gas ☒ Electric ☐ Other:

Fuel Shut Off for Appliance(s): Location(s): At each station

☐ 40BC Extinguisher or ☐ Class K Type: Location:

NOTE: Commercial cooking equipment exhaust and fire protection systems shall be maintained in conformance with NFPA 96, "Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations".

Manual Operation of System: The manual operation instructions are posted on the faceplace of the maular pull station located at each appliance.

System Operating Instructions: Systems all have a copper wire that will melt in the even of a fire and release the valves that operate the system.

Other Extinguishing Systems: ☒ N/A

Type:	Area/Location Protecting

Emergency Lighting: ☐ No ☒ Yes

Location(s): All corridors, stairs and exits

Upon failure of regular power source, Emergency Lighting for this building is required to have an alternative power supply that provides lighting for ☒ 30 minutes. ☐ 1 hour. ☐ 2 hours.

Emergency Power: ☐ No ☐ Yes Type: ☒ Battery or ☒ Generator

1. Fire Alarm System is on Battery
2. Emergency Lights are on Battery
3. IT Data Center Equipment is on generator (Not for Life Safety)

Generator: ☐ N/A

Fuel Type: ☐ Diesel ☒ Natural Gas ☐ Gasoline ☐ Other:

Fuel Supply Location: At meter – West Side B Wing

Transfer Switch Location: Inside the IT Data Center

Equipment Powered by Generator: IT Data Center only (Not for Life Safety)

Extra Hazardous Area:

Is there hazardous materials on site? ☐ No ☒ Yes

If YES, please list the material, quantity and location *(also mark locations on schematics)*:

Room#	Room Name	Materials
A3-160	Chemistry Lab	Acids & Solvents – See **Appendix B** for full list
A3-160.1	Chemistry Storage	Acids & Solvents – See **Appendix B** for full list
A3-160.2	Bio-Tech Storage	Acids & Solvents – See **Appendix B** for full list

Is there Flammable Liquids (i.e. gasoline) or Combustible Liquids stored on site? ☐ No ☒ Yes
(Storage of these liquids must be stored in compliance with Part 4 of Division B of the Ontario Fire Code)

If YES, please list the material, quantity and location *(also mark locations on schematics)*:

Room#	Room Name/Area	Material	Quantity
A3-160	Chemistry Lab	Compressed Gas – C02	1 X 20lbs cylinder
A3-	Culinary Lab	Cooking Oil (Vegtable Oil)	10 x 20L pails
C1-	Cafeteria Kitchen	Cooking Oil (Vegtable Oil)	8 x 20L pails
D0-122	HRAC/HVAC Lab	Furnace Oil	1 tank – 25 liters
D0-122.1	HVAC/Welding Storage	Furnace Oil	1 tank – 25 liters
D0-130	Welding Lab	Compressed Gas – Acetylene	20 x 20lbs cylinders
D0-137	D Wing Loading Area	Compressed Gas – Propane	36 X 5lbs cylinders
D0-137	D Wing Loading Area	Compressed Gas – Acetylene	12 X 5lbs cylinders
D0-137.4	D Wing Loading Area	Compressed Gas – Acetylene	1 tank - 120 cubic meters @ 300psi
D0-137.4	D Wing Loading Area	Compressed Gas – Argon	1 tank – 690 cubic meters @ 500psi
D0-137.5	D Wing Loading Area	Compressed Gas – Liquid O2	1 tank – 170 cubic meters @ 350psi
D0-137.5	D Wing Loading Area	Compressed Gas – C02	1 tank – 200 cubic meters @ 300psi
Exterior	D Wing Loading Area	Furnace Oil	1 tank – 1000 liters
Exterior	Drive Shed Fuel Tank	Diesel	1 tank – 2200 liters (above ground)
Exterior	Drive Shed Fuel Tank	Gasoline	1 tank – 2200 liters (above ground)

Exits: *(location of)*

39 exits maked with red illuminated signs - Refer to schematics for locations.

Elevators: ☐ No ☒ Yes

☐ Firefighter (FF) Elevator (RED HELMET designation)

☒ Firefighter Service (YELLOW HELMET designation)

The required firefighters' elevator symbol shall be maintained in identifiable condition.

Elevators do not have a designated Fire function. Elevators can be placed on Service. Campus Security has the keys to do so.

Automatic Recall by Fire Alarm: ☐ No ☒ Yes Manual Recall: ☒ No ☐ Yes

Manual Recall Switch(es): ☒ No ☐ Yes Location:

Homing Floor(s) for FF Elevator Recall:

Total Number of Elevators in building: 5 Total Number of FF Elevators: 0

FF Elevator Location:

Floors Served by FF Elevator:

Location of recall/operating keys: Campus Security call 705-749-5530 extension 8000

Operating Instructions:

1. Insert Key to "Service" slot
2. Turn key one quarter turn to the right to activate "Service" function.
3. Press desired floor number
4. Hold the "Door Closed" button until the elevator is in motion.
5. Door will remain closed when you get to the desired floor until you press the "Door Open" button.

Part 3
Additional Information

(For any additional information not already covered)

This area is to provide other information on your building not already addressed, and associated with other Fire Code references such as Division B 2.2.3.5.(2)(b), 2.9.3.2., 3.5.3.3.(2) etc. Check the Fire Code to ensure all required information is included in this plan.

Part 4

Please take time to review this page. If all icons required for your building schematics have been transferred to a legend on each drawing, this page can be deleted.

LEGEND FOR BUILDING / UNIT FIRE EMERGENCY SYSTEM


Pull Pin For Kitchen Fire Suppression System


Entrance / Exit


Hydrant


Siamese Fire Department Connection


Free Standing Siamese Fire Department Connection

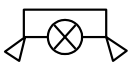

Valves (General)
Identify The Type Of Valve (Ie. Shut Off Valve For Natural Gas, Sprinklers, Etc.)

Fire Alarm Control Panel

Fire Alarm Annunciator


Emergency Light, Battery-Powered


Illuminated Exit Sign, Single Face


Combined Battery-Powered Emergency Light & Illuminated Exit Sign


Pull Station

Heat Detector

Smoke Detector

Fire Extinguisher - BC Type

Fire Extinguisher - ABC Type

Fire Extinguisher - Water

Hose Cabinet


Sprinkler Riser, indicate whether Wet or Dry System

Site Plan

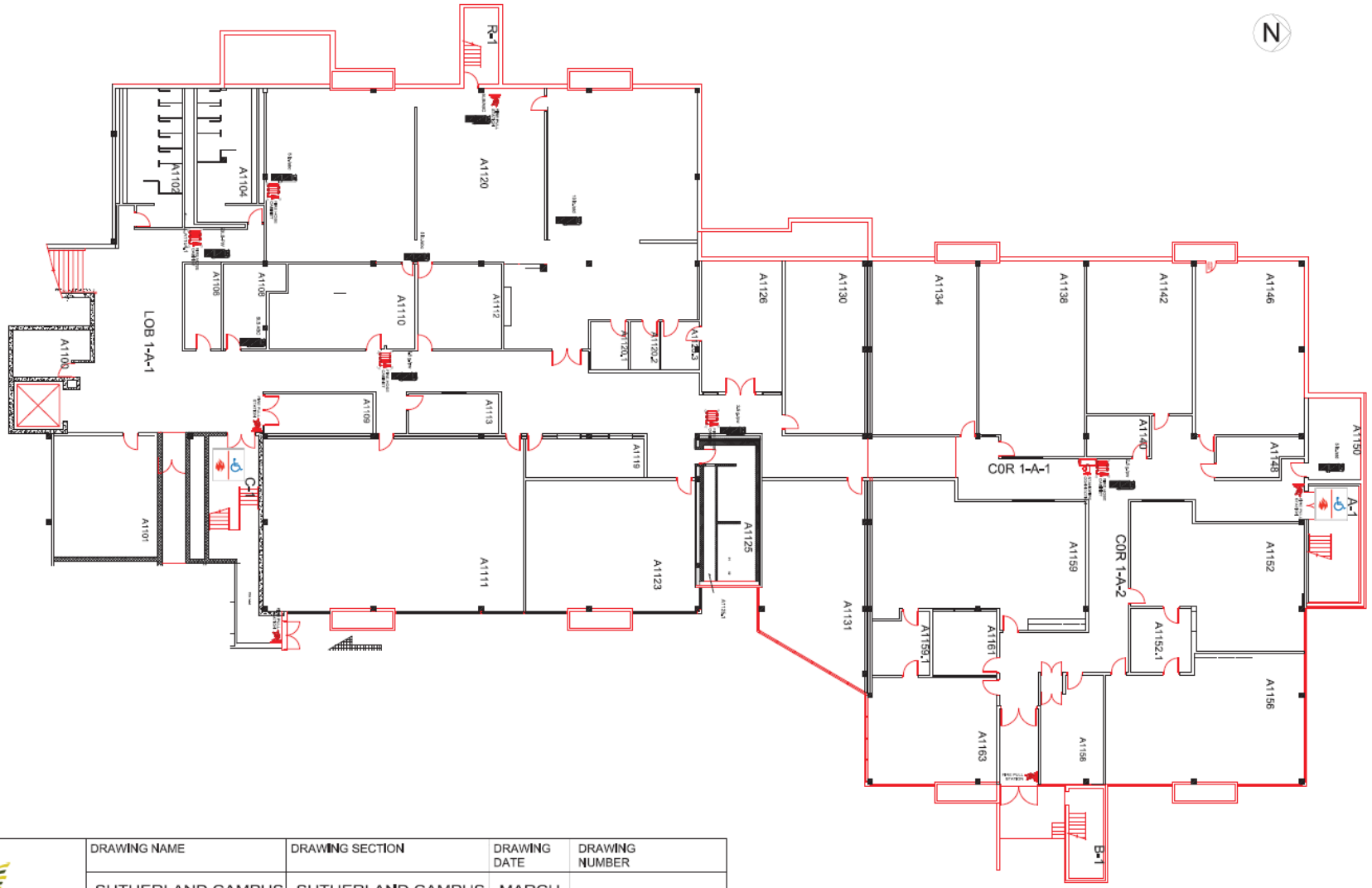
□Please attach Site Plan to email or send with printed copies. (Include Legend on each page)

Site Plan will include location of property on city street showing street name (cross streets where applicable), and fire access route from street to building's principal entrance (firefighters access point). The fire department connection will also be indicated, as well as any exterior utility shutoffs such as gas lines, and any outbuildings on the property. A legend showing symbols will be included on site plan drawing as well as a direction "North" symbol.

This page can be deleted after the Site Plan is inserted into this document in this location.

Floor Plan(s)

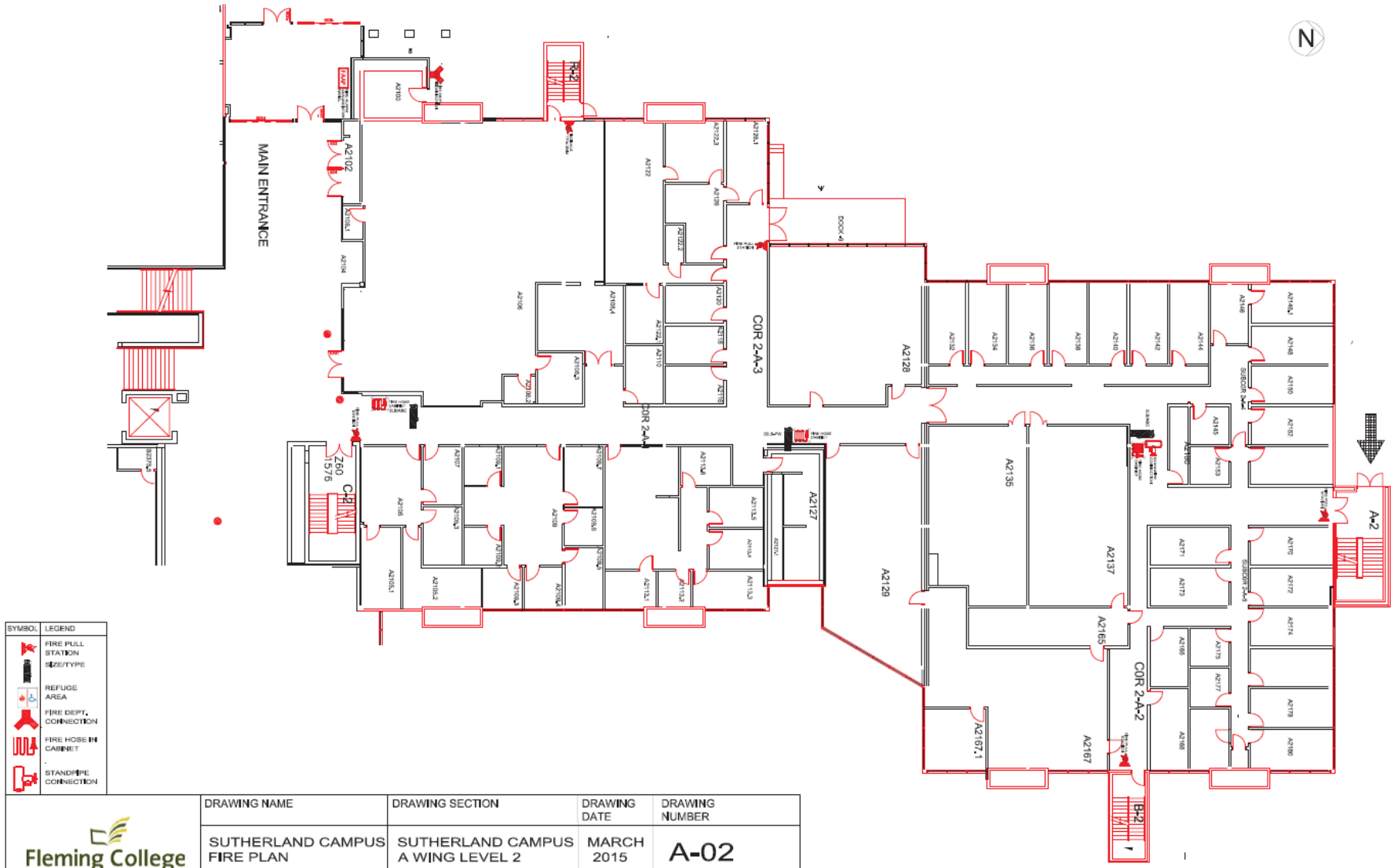
SYMBOL
LEGEND
FIRE PULL STATION
REFUGE AREA
FIRE DEPT. CONNECTION
FIRE HOSE CABINET
STANDPIPE CONNECTION
MAIN ENTRANCE
A WING
B WING
C WING
D WING
N
Fleming College
DRAWING NAME
SUTHERLAND CAMPUS FIRE PLAN
DRAWING SECTION
SUTHERLAND CAMPUS WING LOCATIONS
DRAWING DATE
MARCH 2015
DRAWING NUMBER
A-00
THIS DOCUMENT IS PROPERTY OF SIR SANDFORD FLEMING COLLEGE. IT MAY NOT BE REPRODUCED WITHOUT CONSENT



SYMBOL	LEGEND
	FIRE PULL STATION SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
SUTHERLAND CAMPUS FIRE PLAN	SUTHERLAND CAMPUS A WING LEVEL 1	MARCH 2015	A-01



SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

	DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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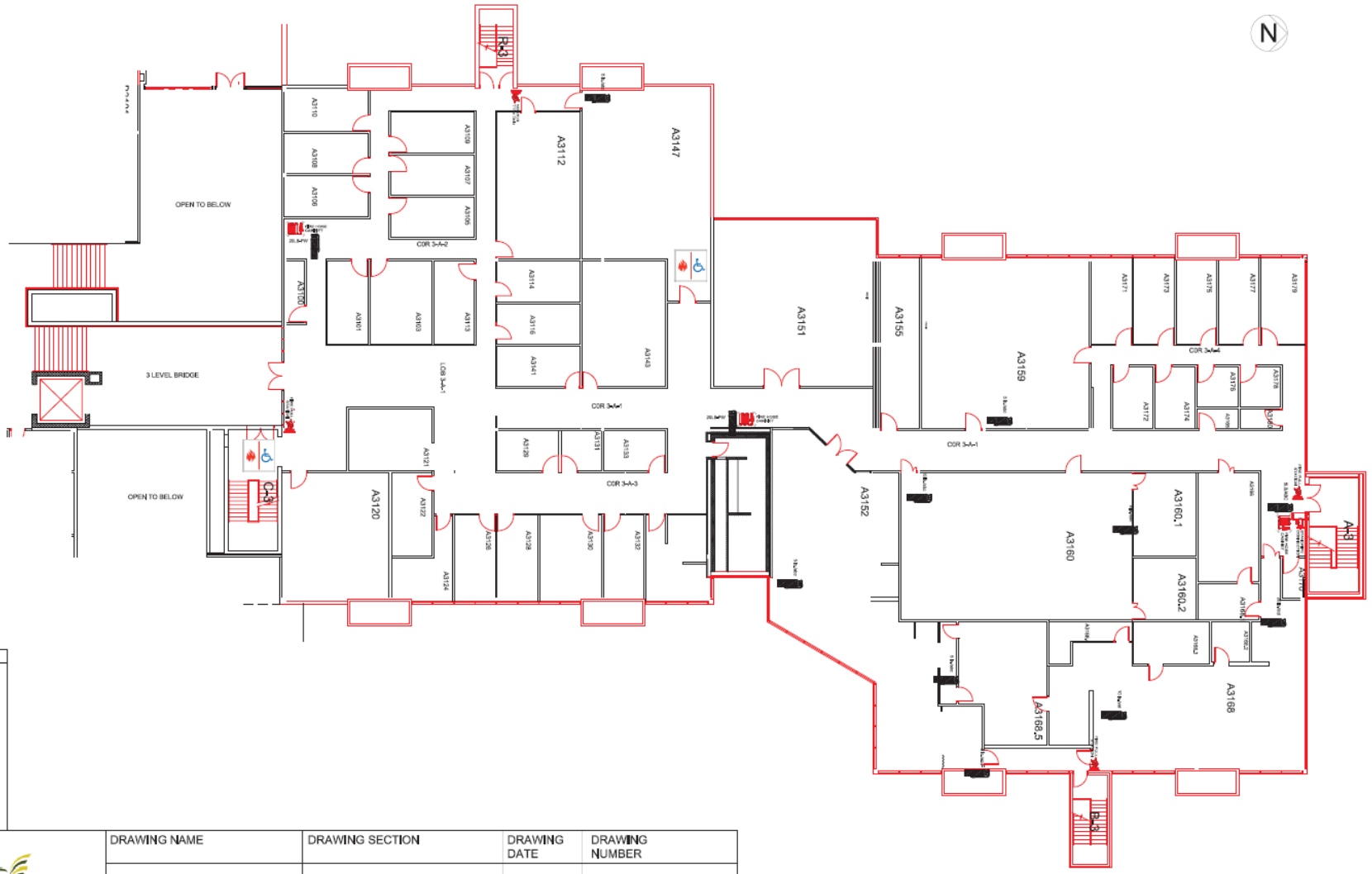

SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

	DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
Fleming College	SUTHERLAND CAMPUS FIRE PLAN	SUTHERLAND CAMPUS A WING LEVEL 3	MARCH 2015	A-03

SYMBOL	LEGEND
	FIRE PULL STATION SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
SUTHERLAND CAMPUS FIRE PLAN	SUTHERLAND CAMPUS B WING LEVEL 2	MARCH 2015	A-04

SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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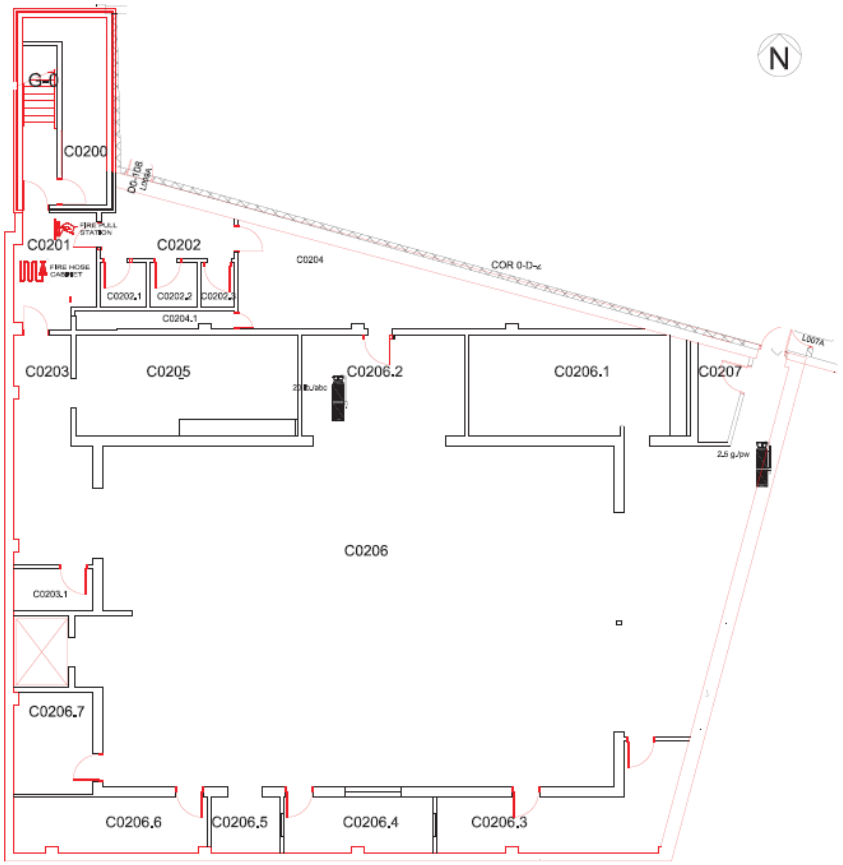

SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

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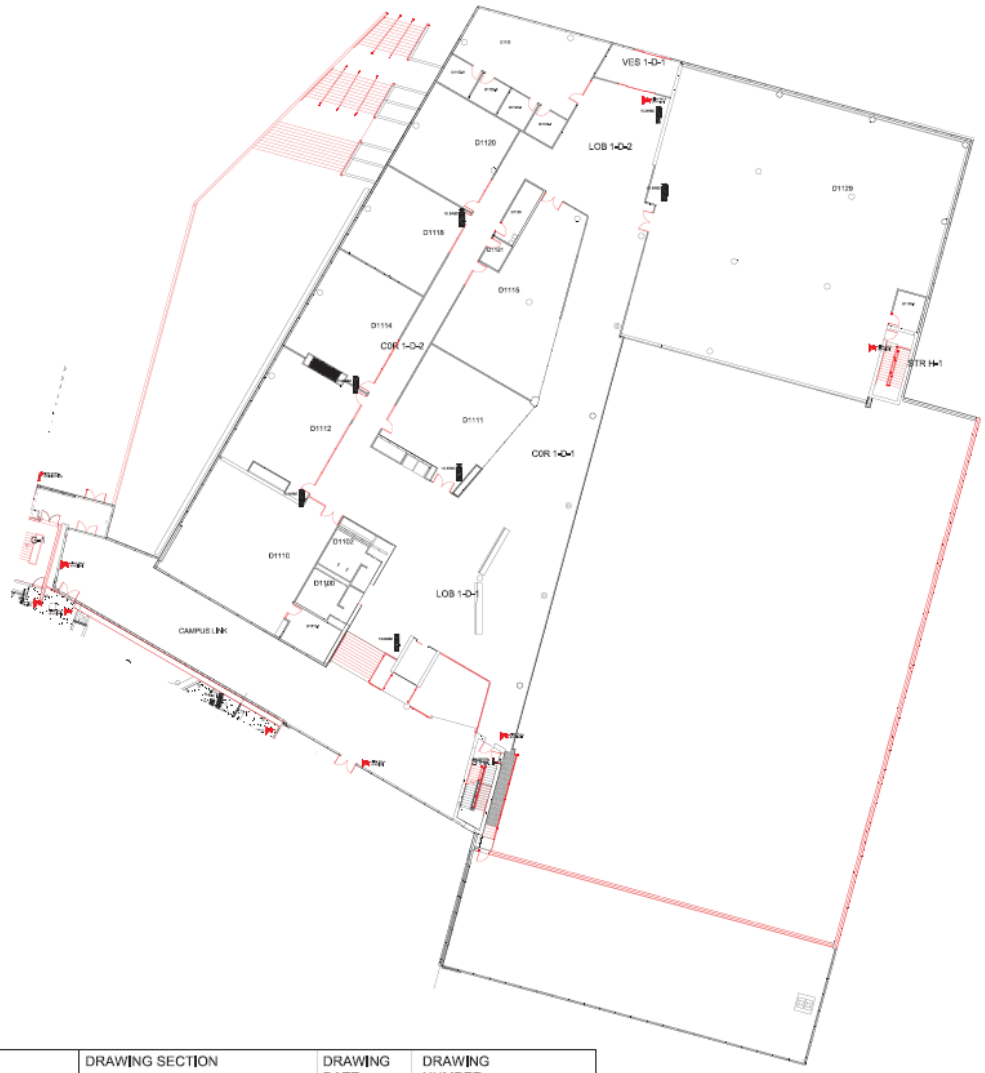

SYMBOL	LEGEND
	FIRE PULL STATION SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
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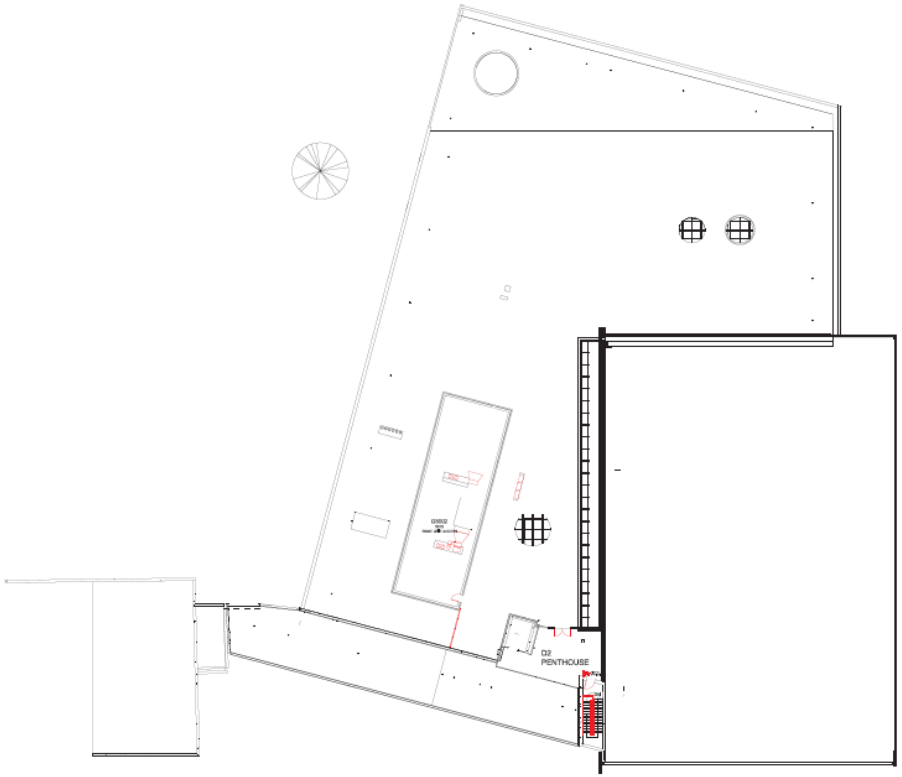

SYMBOL	LEGEND
	FIRE PULL STATION
	SIZE/TYPE
	REFUGE AREA
	FIRE DEPT. CONNECTION
	FIRE HOSE IN CABINET
	STANDPIPE CONNECTION

Fleming College

DRAWING NAME	DRAWING SECTION	DRAWING DATE	DRAWING NUMBER
SUTHERLAND CAMPUS FIRE PLAN	SUTHERLAND CAMPUS D WING LEVEL 2	MARCH 2015	A-11

Part 5
PERSONS REQUIRING ASSISTANCE

Due to the unpredictable nature of class and work schedules maintaining a list of pesons that require assistance in the event of an evacuation is not feasible. Fire Refuge Areas have been identified in the areas of the building where a person with mobility impairment may have difficulty evacuating. These areas have been equipped with a large yellow alarm button that will turn on an indicator light on the Annunciator Panel to notify Fire Personnel. Students and employees requiring assistance in the event of an evacuation are instructed to go to a Fire Refuge Area and activate the Fire Refuge Alarm by pressing the yellow button.

The following list of Fire Refuge Areas are posted in wall washrooms and is available at the Information Booth. The alarms in these areas are tested monthly by Campus Security.

LOCATION	Red Light Yes/No	Front Panel	Main Panel Room C1-102	Comments
Inside Room A3-120				
Inside Room A3-147)				
Floor A3 Stairwell by Room A3-170				
Floor A1 Stairwell by Room A1-150				
Floor A1 Stairwell by Room A1-109				
Floor B2 by Breaktime Room B2-100				
Floor B2 by Room B2-153				
Floor B3 Inside Room B3-179				
Floor B3 Inside Room B3-155				
Floor B3 Inside Room B3-101				
East Back Stairwell Off Room C2-102				
In Hallway Across From Room C2-129				
In Stairwell Beside Room C1-306 (175) Conservation				
C0 Level – Inside Room C0-119				
Steele Centre Basement Beside Electric Panel				

Part 6
Emergency Procedures for Occupants

Emergency procedures signage will be affixed to the wall at all fire alarm pull stations and in elevator lobbies. Where a fire alarm system has been installed with no provisions to transmit a signal to the fire department, a legible notice, that is not easily removed, shall be affixed to the wall near each manual pull station with wording that the fire department is to be notified in the event of a fire emergency and including the emergency telephone number for the municipality or the telephone number of the fire department. At least one copy of the fire emergency procedures shall be prominently posted and maintained on each floor area. The following emergency procedures are posted in the building.

IN CASE OF FIRE

If You Discover a Fire:

- Leave fire area immediately
- Close all doors behind you to confine the fire
- Activate Fire Alarm
- Call Fire Department at 9-1-1 from safe area
- Leave building via nearest safe exit or stairway
- Move a safe distance away from the building

DO NOT USE ELEVATORS

Upon Hearing of a Fire Condition:

- Leave building via nearest exit.
- Close doors behind you.
- Do not use elevator.
- Leave building via nearest safe exit or stairway
- Proceed to designated outside assembly area
- Do not re-enter the building until safe to do so
- If smoke is heavy in the corridor, it may be safer to remain in your area; Close and seal the base of door.
- If you encounter smoke in stairway, use alternate exit or if all stairways are affected, it may be safer to stay in your area.

CAUTION

IF YOU ENCOUNTER SMOKE - USE AN ALTERNATE EXIT

REMAIN CALM

Part 7
Emergency Procedures for Security Staff

Upon Discovery of Fire

- Leave fire area immediately and close doors. Alert occupants.
- Sound Fire Alarm and follow the fire alarm supervisory procedures.
- Call 9-1-1 from a safe location.
- Exit the building via the nearest exit.
- Await the arrival of Fire Department at the main entrance.

Upon Hearing of a Fire Condition

- Ensure that the other occupants have been notified of the emergency conditions.
- Check Fire Alarm Annunciator/Panel to determine area of origin of alarm.
- Notify the Fire Department of the emergency condition. Dial 9-1-1. If it is safe to do so, supervise the evacuation of all occupants, including those requiring assistance.
- Upon the arrival of the Fire Department, inform the fire officer of the conditions in the building and co-ordinate the efforts of the Security staff with those of the Fire Department.
- Provide access and vital information to the Firefighters as to location of persons, master keys for this occupancy and service rooms, etc.

Related Duties

In general:

- Keep the doors in fire separations closed at all times. This includes apartment doors and stairway separation doors.
- Keep EXITS and access to exits, inside and outside, clear of any obstructions at all times.
- Maintain sufficient lighting in exits and corridors.
- Do not permit combustible materials to accumulate in quantities or locations that would constitute a fire hazard. Keep stairways free of combustible storage and obstructions.
- Outdoor storage receptacles, such as dumpsters, used for combustible materials shall be located so that they do not create a fire hazard to buildings.
- Promptly remove all combustible waste from areas where waste is placed for disposal, if applicable.
- Keep access roadways, fire routes and fire department connections clear and accessible for fire department use.
- Hydrants shall be readily available and unobstructed for use at all times and shall be maintained free of snow and ice accumulations.
- Maintain the fire protection equipment in good operating condition at all times.
- Participate in fire drills. Occupants' participation should be encouraged but not required.
- Have a working knowledge of the building fire and life safety systems.
- Ensure the building fire and life safety systems are in operating condition.
- Be available upon notification of a fire emergency to fulfil your obligation as described in this plan.
- Arrange for a substitute in your absence.
- Comply with the requirements of the Ontario Fire Code.
- In the event of any shutdown of fire and life safety systems, notify the Fire Department and initiate approved alternative measures.

Emergency Procedures

Additional Information/Comments

Part 8
Responsibilities of the Owner / Occupant

The building owner/occupant has numerous responsibilities related to fire safety and must ensure that the following measures are enacted:

- Establishment of emergency procedures to be followed at the time of an emergency.
- Appointment and organization of designated supervisory staff to carry out safety duties.
- Instruction of supervisory staff and other occupants so that they are aware of their responsibilities for fire safety.
- Ensure you, or your supervisory staff, are available upon notification of a fire emergency to fulfil your obligation as described in the Fire Safety Plan.
- Holding of fire drills in accordance with the Fire Code, incorporating Emergency Procedures appropriate to the building.
- Control of fire hazards in the building.
- Maintenance of building facilities provided for safety of the occupants.
- Provisions of alternate measures for safety of occupants during shut down of fire protection equipment.
- Ensure that checks, tests and inspections as required by the Ontario Fire Code are completed on schedule, and that the original or a copy of these records are retained at the building premises for examination by the Chief Fire for a minimum period of two (2) years.
- Ensure the continuation of the monitoring of the fire alarm system when building required to transmit a signal to the fire department and that the central station operator is Fire Code compliant.
- Ensure the initial verification of test reports for fire protection systems installed after November 21, 2007, are retained throughout the life of the systems.
- Post and maintain at least one (1) copy of the fire emergency procedures.
- Keep a copy of the approved Fire Safety Plan on the premises in an approved location.
- Notification of the Chief Fire Official regarding changes in the Fire Safety Plan.
- Review Fire Safety Plan as often as necessary, but at intervals not greater than 12 months to ensure that it takes account of changes in the use and other characteristics of the building.
- Designate and train sufficient alternates to replace supervisory staff during any absence.
- Where testing is required for compliance with this Code, the tests shall be carried out by the owner or the owner's agent within such reasonable time as the Chief Fire Official may determine.

Part 9
Fire Hazards

Commercial, Retail and Industrial Properties:

A high standard of housekeeping and building maintenance is probably the most important single factor in the prevention of fire. Listed below are some specific hazards.

- Combustible material stored in non-approved areas.
- Fire and smoke barrier door not operating properly or wedged open.
- Improper storage of flammable liquids and gases.
- Defective electrical wiring and appliances, over-fusing, and the use of extension cords as permanent wiring.
- Clothes dryer lint collector full or improperly vented.
- Careless use of smoking materials.
- Kitchen hoods and filters not cleaned properly/grease laden.
- Improper disposal of oily rags.

In general, occupants should:

- Know how to alarm occupants of building, know where exits are located.
- Call Peterborough Fire Services immediately (9-1-1) whenever you need assistance.
- Know the correct address of the building.
- Notify the building/property management if special assistance is required in the event of an emergency.
- Know the fire alarm signals and the procedures established to implement safe evacuation.
- Know the supervisory staff in your building.
- Report any fire hazard to supervisory staff.
- Know stairwell designation and the crossover floors (if any).

Part 10
Fire Extinguishment, Control or Confinement

Most fires start small. Except for explosions, fires can usually be brought under control if they are attacked correctly with the right type and size of extinguisher within the first two minutes. In the event a small fire cannot be extinguished with the use of a portable fire extinguisher, or smoke presents a hazard for the operator, the door to the area should be closed to confine and contain the fire. If fighting the fire, ensure that the Fire Alarm System has been activated and Peterborough Fire Services has been notified prior to any attempt to extinguish the fire. Only those persons who are trained and familiar with extinguisher operation may attempt to fight the fire.

The decision to use a fire extinguisher is one that is made after considering the following:

- Type of fire (Class A, B, C, D or K)
- Type of fire extinguisher available for the fire
- Size and intensity of fire
- Size and capacity of the fire extinguisher
- Exit location and clear route away from fire

When not to fight a fire…

- If the fire could block your only exit
- If the fire is spreading quickly
- If the type or size of the extinguisher is wrong
- If the fire is too large
- If you don't know how to use the fire extinguisher

Suggested Operation of Portable Fire Extinguishers

Remember the (**PASS**) acronym

P - Pull the safety pin
A - Aim the nozzle
S - Squeeze the trigger handle
S - Sweep from side to side (watch for fire restarting)

Never re-hang extinguishers after use. Ensure they are properly recharged by a person that is qualified to service portable fire extinguishers and that a replacement extinguisher is provided.

Keep extinguishers in a visible area without obstructions around them.

Part 11
Alternative Measures for Occupant Fire Safety

In the event of any shut-down of fire protection equipment systems or part thereof, in excess of 24 hours, the fire department shall be notified in writing. Occupants will be notified and instructions will be posted as to alternative provisions or actions to be taken in case of emergency. These provisions and actions must be acceptable to the Chief Fire Official.

All attempts to minimize the impact of malfunctioning equipment will be initiated. Where portions of a sprinkler or fire alarm system are placed out of service, service to remaining portions must be maintained, and where necessary, the use of watchmen, bull-horns, walkie-talkies, etc. will be employed to notify concerned parties of emergencies. Assistance and direction for specific situations will be sought from Peterborough Fire Services.

Procedures to be followed in the event of shutdown of any part of a fire protection system are as follows:

1. Notify Peterborough Fire Services, dial (705) 745-3284 (DO NOT USE 9-1-1). Give your name, address and a description of the problem and when you expect it to be corrected. Peterborough Fire Services is to be notified in writing of shutdowns longer than 24 hours.

2. Post notices at all exits and the main entrance, stating the problem and when it is expected to be corrected.

3. Have staff of other reliable person(s) patrol the affected area(s) at least once every hour.

4. Notify Peterborough Fire Services and the building occupants when repairs have been completed and systems are operational.

NOTE: All shutdowns will be confined to as limited an area and duration as possible. Cooking operations shall be suspended until the commercial cooking fixed extinguishing system is restored.

(See attached Fire Watch Duties and Report Log)

Peterborough Fire Service FIRE WATCH DUTIES

Definition: The term “fire watch” is used to describe a dedicated person or persons whose sole responsibility is to look for fire within an established area. Fire watch is required in the event of temporary failure of the fire alarm system or where activities require the interruption of any fire detection, suppression or alarm system component.

NOTE: All building occupants are to be notified in writing that the fire protection systems in the building are not currently functional and that a Fire Watch has been instituted until repairs have been made. Occupants should take immediate actions to notify other occupants and evacuate the building when notified of a fire emergency.

1. At least one (1) qualified staff person shall be employed to complete fire watch duties of the unprotected building area whenever the building is occupied. Each person assigned to Fire Watch duties must be provided with the following equipment;

    i. Suitable means of communication (cell phone, portable radio, etc.) for notifying the Fire Dept.
    ii. A portable air horn or other approved means of sounding an alarm
    iii. Flashlight
    iv. Clipboard and pen
    v. Copy of fire watch duties
    vi. Copy of the Fire Watch Log Sheet
    vii. Keys and/or access codes to provide entry to all rooms/spaces
    viii. Floor plan(s) of the building under Fire Watch

2. Fire Watch personnel are to be familiar with the building and procedures for alerting the fire Department and all building occupants in the event of a fire.

3. Rounds shall be diligently completed at least once each hour, and recorded immediately upon the conclusion of each round on the Fire Watch Log Sheet. The person completing the rounds will record the time each round was completed.

4. Fire watch personnel are to have fire extinguishing equipment readily available and be trained in its use.

5. If fire or smoke conditions are discovered, alert all building occupants by sounding a portable air horn or another device approved by the Chief Fire Official. Attempt to extinguish the fire when it is safe to do so.

6. A telephone must be readily available at all times to notify Peterborough Fire Services by calling 9-1-1. Always call from a safe area.

7. Coordinate evacuation in fire compartment and close door in fire room. Keep all doors closed to limit smoke migration. Continue to assist those with physical of cognitive limitations during evacuation.

8. Once building evacuation is completed, await emergency response personnel at a safe location and direct them to the fire. NEVER re-enter the building without permission from Peterborough Fire Services.

9. “Hot Works” such as welding or cutting shall be prohibited in the area where the sprinkler protection is impaired or be limited to areas where approved precautions have been put into place.

10. While the sprinkler and/or fire alarm system(s) are shut down, assigned fire watch personnel shall patrol the area until both the fire alarm system and the sprinkler system has been restored.

11. Exit doors, access to exits and corridors are to be kept closed and checked periodically for proper operation and obstructions while performing Fire Watch duties.

FIRE WATCH LOG REPORT

_____ System out of service	Date:_____	Time: _____
System Out of Service-Notification to Fire Department	Date:_____	Time: _____

_____ System Back in Service	Date:_____	Time: _____
System Back in Service-Notification to Fire Department	Date:_____	Time: _____

Persons assigned to fire watch duties shall follow the requirements listed on the fire watch duties sheet and shall patrol all unprotected areas of the building every hour to check for signs of fire or smoke conditions. All patrols are to be recorded on this log report immediately following each round. Records of fire watch shall be kept for 2 years after they are made and shall be made available upon request to the chief fire official.

Fire Watch Duties Conducted By: _____
(PRINT NAME & POSITION)

Fire Watch Commenced: Date: _____ Time: _____

Rounds	Start Time	Finished	Signature	Comments
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				

Start a new Fire Watch Log Report Sheet for each new day of fire watch

Part 12
Fire Drills

Fire drills will be held at least once every 4 month(s) (once per academic semester) for this building to ensure efficient execution of the Emergency Procedures by supervisory staff. Fire drill records are required to be retained for a period of 12 months after the fire drill and made available to the Chief Fire Official upon request.

The Fire Code (2.8.3.1.(1) of Div. B) states that the procedure for conducting fire drills shall be included in the fire safety plan, taking into consideration

(a) the building occupancy and its fire hazards,
(b) the safety features provided in the building ,
(c) the desirable degree of participation of occupants other than supervisory staff ,
(d) the number and degree of experience of participating supervisory staff , and
(e) the testing and operation of the emergency systems installed in buildings within the scope of Subsection 3.2.6. of Division B of the Building Code .

The fire drill procedures shall be prepared in consultation with the Chief Fire Official.

THE PROCEDURE IS AS FOLLOWS:

1) Notify all occupants 24 hours in advance of the approximate time when the drill is to take place and include the date of the drill.

2) Post signs containing the above information in the lobby and other locations where guests are most likely to see them.

3) Notify the Fire Department and monitoring agency (if alarm is monitored) before the fire alarm is activated.

FIRE DEPARTMENT PHONE NUMBER: (705) 745-3284 ***(NOT 911 FOR THIS PURPOSE)***

4) Commence drill.

5) Reset alarm system and verify with the alarm company that alarm is reset.

6) Notify the Fire Department when drill has been completed if the alarm was activated.

7) Post-drill de-briefing meeting(s) will be held after drill to assess:
   a) any problems that may have occurred
   b) that all required fire protection equipment functioned as designed

8) Complete the appropriate fire drill document (as shown in fire safety plan) and retain the record for at least 12 months after the drill.

FIRE DRILL RECORD

Date:		Time:		Full Drill or Table-top exercise:
Device Activated:				

On-Duty Manager/Supervisor Conducting Drill:	

Staff Present:	

Deficiencies Noted:	

General Comments:	

Part 13
Requirements of the Ontario Fire Code

Check/Test/Inspect requirements of the Ontario Fire Code:

To assist you in fulfilling your obligations, included is a list of the portions of the Fire Code that requires checks, inspections and/or tests to be conducted of the facilities. It is suggested that you read over this list and perform or have performed the necessary checks, inspections and/or tests for the items which may apply to your property.

This list has been prepared for purposes of convenience only. For accurate reference, the Fire Code shall be consulted. Where specific references to checking, inspection and testing of fire safety devices are not made in this Code, such devices shall be maintained to ensure they operate as per their design requirements.

Where a building or its contents must be tested for compliance with this Code, the tests shall be carried out by the owner or the owner's agent within such reasonable time as the Chief Fire Official may determine.

Any appliance, device or component of a device that does not operate or appear to operate as intended when checked, inspected or tested as required by this Code shall be repaired or replaced if the failure or malfunctioning of the appliance, device or component would adversely affect fire or life safety.

Fire Prevention Officers may check to ensure that the necessary checks, inspections and/or tests are being done, when conducting their inspections, and asked to see the required written records.

Definitions for key words are as follows:

Check means visual observation to ensure the device or system is in place and is not obviously damaged or obstructed

Test means the operation of a device or system to ensure that it will perform in accordance with its intended operation or function

Inspect means physical examination to determine that the device or system will apparently perform in accordance with its intended function

It is stated in the Fire Code that written records of all tests and corrective measures are required to be retained for a period of two years after they are made, and shall be available upon request to the Chief Fire Official. Records shall be made and the original or a copy shall be retained at the building premises for examination by the Chief Fire Official. Records of tests and corrective measures or operational procedures shall be retained so that at least the current and the immediately preceding reports are available, however; records shall be retained for a period of at least two years after being prepared.

NOTE: The initial verification or test reports for fire protection systems installed after November 21, 2007 shall be retained on the premises throughout the life of the systems. This requirement applies to systems installed in accordance with this Code or the Building Code.

General Fire Protection Systems/Equipment

General

Responsibility
(example: Owner, Superintendent, Contractor)

Doors in fire separations shall be **checked** as frequently as necessary to ensure that they remain closed.	Security
Exit signs shall be clearly visible and maintained in a clean and legible condition.	Security
Internally illuminated exit signs shall be kept clearly illuminated at all times, when the building is occupied.	Security

Weekly

When subject to accumulation of combustible deposits, hoods, filters and ducts shall be **checked** weekly and be cleaned when such deposits create an undue fire hazard.	By Department

Monthly

Doors in fire separations shall be **inspected** monthly for proper operation.	Physical Resources

Yearly

Fire dampers and fire-stop flaps shall be **inspected** annually, or based on a schedule via contractor acceptable to the Chief Fire Official.	Contractor
Every chimney, flue and flue pipe shall be **inspected** annually and cleaned as often as necessary to keep them free from ccumulations of combustible deposits.	PRD & Contractor
Disconnect switches for mechanical air-conditioning and ventilating systems shall be **inspected** annually to establish that the system can be shut down.	PRD
Spark arresters shall be cleaned annually or more frequently where accumulations of debris will adversely affect operations. Burnt-out arresters shall be repaired or replaced.	PRD

Portable Fire Extinguishers

General	**Responsibility**
Each portable extinguisher shall have a tag securely attached to it showing the maintenance or recharge date, the servicing agency and the signature of the person who performed the service.	Contractor
A permanent record containing the maintenance date, the examiner's name and a description of any work or hydrostatic **testing** carried out shall be prepared and maintained for each portable extinguisher.	Contractor
All extinguishers shall be recharged after use or as indicated by an inspection or when performing maintenance. When recharging is performed, the recommendations of the manufacturer shall be followed.	Contractor

Monthly	**Responsibility**
Portable extinguishers shall be **inspected** monthly.	Security

Yearly

Extinguishers shall be subject to maintenance not more than one year apart or when specifically indicated by an inspection.	Contractor
Maintenance procedures shall include a thorough examination of the three basic elements of an extinguisher: a) mechanical parts b) extinguishing agent c) expelling means	Contractor
Every twelve months, pump tank water, and pump tank calcium chloride base antifreeze types of extinguishers shall be recharged with new chemicals or water, as applicable	N/A

5 Years

Every five years, pressurized water and carbon dioxide fire extinguishers shall be hydrostatically **tested**.	Contractor

6 Years

Every six years, stored pressure extinguishers that require a 12 year hydrostatic **test** shall be emptied and subjected to the applicable maintenance procedures.	N/A

Fire Alarm System

General	Responsibility
Fire alarm and voice communication system components shall be kept unobstructed.	PRD
Fire alarm shall be kept unobstructed.	PRD
Fire alarm system power supply disconnect switches shall be locked on in an approved manner.	PRD

Daily	Responsibility
The following daily checks shall be conducted if a fault is established, appropriate corrective action shall be taken. a) **Check** the principle and remote trouble lights for trouble indication; b) **Inspection** of the AC power-on light shall be done to ensure its normal operation.	PRD/Security

Yearly	Responsibility
Yearly **tests** conducted by a certified alarm contractor as required by The Ontario Fire Code, Section 1.1.5.3. **Tests** shall be in conformance with CAN/ULC S536, "Inspection and Testing of Fire Alarm Systems".	PRD/Contractor
Voice communications between floor areas and the central alarm control facility shall be **tested** annually, as required for fire alarm initiating and signally devices.	N/A

Standpipe Systems

Monthly	Responsibility
Hose cabinets shall be **inspected** monthly to ensure that the hose and equipment are in the proper position and appear to be operable.	Security

Yearly	
Plugs or caps on Fire Department connections shall be removed annually and the threads **inspected** for wear, rust or obstruction. Re-secure plugs or caps, wrench tight.	Contractor
If plugs or caps are missing, examine the Fire Department connections for obstructions, back flush if necessary, and replace plugs or caps.	Contractor
Hose valves shall be **inspected** annually to ensure that they are tight and that there is no water leakage into the hose.	Contractor
Standpipe hose shall be removed and re-racked annually and after use. Any worn gaskets in the couplings, at the hose valve and at the nozzle shall be replaced.	Contractor

Sprinkler Systems (Wet)

General	**Responsibility**
Auxiliary drains shall be **inspected** as required to prevent freezing.	PRD
Fire Dept. connections shall be equipped with plugs or caps that are secured wrench-tight	PRD

Weekly

Except for electrically supervised valves, all valves controlling water supplies to sprinklers and alarm connections shall be **checked** weekly to ensure that they are sealed or locked in the open position.	PRD
Water supply pressure and system air or water pressure shall be **checked** weekly by using gauges to ensure that the system is maintained at the required operating pressure.	PRD

Monthly	**Responsibility**
On all sprinkler systems, an alarm **test**, using the alarm test connection located at the sprinkler valve, shall be performed monthly.	PRD

Two Months	**Responsibility**
All transmitters and water flow devices shall be **tested** at two month intervals.	PRD

Six Months

Gate-valve supervisory switches and other sprinkler system supervisory devices shall be **tested** at six month intervals.	PRD

Yearly

Exposed sprinkler piping hangers shall be **checked** yearly to ensure that they are kept in good repair.	Contr
Sprinkler heads shall be **checked** at least once per year to ensure that they are kept in good repair.	Contractor
Sprinkler heads shall be **checked** at least once per year to ensure that they are free from damage, corrosion, grease, dust, paint, or whitewash. They shall be replaced where necessary as a result of such conditions.	Contractor
On wet sprinkler systems, water-flow alarm **test** using the most hydraulically remote test connection, shall be performed annually.	Contractor
Sprinkler system water pressure shall be **tested** annually or after any sprinkler system control valve has been operated, with the main drain valve fully open, to ensure that there are no obstructions or deterioration of the main water supply.	Contractor
Plugs or caps on Fire Department connections shall be removed annually and the threads inspected of wear, rust or obstruction. Re-secure plugs or caps, wrench tight. If plugs or caps are missing, examine the Fire Department connection for obstructions, back flush if necessary and replace plugs or caps.	Contractor

Private Fire Hydrants

General	Responsibility
Hydrants shall be readily available and unobstructed for use at all times.	PRD

Yearly

Hydrants shall be **inspected** annually after each use.	Contractor
Ensure hydrants are equipped with port caps secured wrench tight. The port caps shall be removed annually and **inspected** for wear, rust or obstructions.	Contractor
The hydrant barrel shall be **inspected** annually to ensure that no water has accumulated.	Contractor
The drain valve shall be **inspected** for operation if water is found in the hydrant barrel when main valve is closed.	Contractor
Hydrant waterflow shall be **inspected** annually and a record shall be kept.	Contractor

Commercial Cooking Equipment

General	Responsibility
Commercial cooking equipment exhaust and fire protection systems shall be installed and maintained in conformance with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations".	PRD
Ensure wet chemical or alkali based dry chemical portable fire extinguishers are provided to protect commercial cooking equipment and are readily available for use in an emergency.	Security/PRD

Weekly

Hoods, grease removal devices, fans, ducts, and other equipment shall be **checked** weekly and cleaned at frequent intervals, prior to surfaces becoming heavily contaminated with grease or oily sludge.	By Department

6 Months

Inspection and servicing of the fire extinguishing system shall be made at least every six months by properly trained and qualified persons in conformance with Ontario Fire Code, Section 6.8.1.1.	PRD

Emergency Lighting System

Daily	Responsibility
Check pilot lights for indication of proper operation.	PRD/Security

Monthly

Batteries shall be **inspected** monthly and maintained as per manufacturer's specifications.	PRD
Ensure that battery surface is clean and dry.	PRD
Ensure that terminal connections are clean, free of corrosion and lubricated.	PRD
Ensure that the terminal clamps are clean and tight as per manufacturer's specifications.	PRD
Emergency lighting equipment shall be **tested** monthly to ensure that the emergency lighting will function upon failure of the primary power supply.	PRD/Security

Yearly

Emergency lighting equipment shall be **tested** annually to ensure that the units will provide emergency lighting for a duration equal to the design criteria under simulated power failure conditions.	Contractor
After completion, the charging conditions for voltage and current and the recovery period will be **tested** annually to ensure that he charging system is in accordance with the manufacturer's specifications.	Contractor

Emergency Power Systems

General	**Responsibility**
Emergency power systems shall be **inspected**, **tested** and maintained in conformance with CSA C282, "Emergency Electrical Power Supply for Buildings".	
To ensure continued reliable operation, the emergency power supply equipment shall be operated and maintained in accordance with manufacturer's instructions.	
At least two copies of the instruction manual shall be maintained.	

Monthly	**Responsibility**
The emergency electrical power shall be completely **tested** monthly as follows: a) Simulate a failure of the normal power supply. b) Arrange so that: i) an engine generator set operates under at least 30% of the rated load for 60 minutes and; ii) all automatic transfer switches are operated under load. c) Include an inspection for correct function of all auxiliary equipment such as radiator shutter control, coolant pumps, fuel transfer pumps, oil coolers and engine room ventilation controls. d) Record all instrument readings associated with the prime mover and generator and a verification that they are normal. e) Log and report as further prescribed in the manual of instruction for operation and maintenance. Check fuel supply for sufficient quantity.	

Annually

Test the generator, control panel, and transfer switch in conformance with CSA C282, "Emergency Electrical Power Supply for Buildings".	

Maintenance
Additional Comments

Part 14
Fire Safety Plan Review Record

The Fire Safety Plan must be reviewed as often as necessary, but at intervals not greater than 12 months to ensure that it takes account of changes in the use and other characteristics of the building. It is the responsibility of the owner to ensure that the information contained within the Fire Safety Plan is accurate and complete. (*Ontario Fire Code 2.8.2.1.(4) of Division B*).

Date of Review: _18 July 2016_____Reviewed By: ____John Gallen_____

Owner/Position: _Manager, Security, Parking & Emergency Mangement_ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Date of Review: _____ Reviewed By: _____

Owner/Position: _____ Signature: _____

Appendix A

Fire Extinguisher List

Level A1	
Location	**Location Notes**
A1 Hall	Between washrooms **A1-102** & **A1-104** - inside hose cabinet
A1-108	**Housekeeping closet;** inside room on north (right) side of door
A1 Hall	Between rooms **A1-110 & A1-112** - inside hose cabinet
A1-120	**Nursing Lab;** middle area of room, attached to west wall - (right) north of **Stairwell R** door
A1 Hall	Across from room **A1-126** - inside hose cabinet
A1 Hall	Left side (south) of room **A1-140** - inside hose cabinet

Level A2	
Location	**Location Notes**
A2 Hall	Across from **A2-105** - inside hose cabinet
A2 Hall	Across from **A2-128** - inside hose cabinet
A2 Hall	Across from **Housekeeping** closet **A2-160** - inside hose cabinet

Level A3	
Location	**Location Notes**
A3 Roof	**Stairwell C;** top of staircase, (left) east side of door - attached to wall
A3 Hall	(west) Right side of **caretaking** room **A3-100 -** in hose cabinet
A3-147	**Classroom;** (west) back wall, right side of rear exit to room - attached to wall
A3 Hall	Across from **A3-151 -** inside hose cabinet
A3-152	**Fulfords;** front sitting section, (south) right side by windows - attached to wall on corner
A3-152	**Fulfords**; rear sitting room - (east)right side of rear emergency exit - attached to wall
A3-152	**Fulfords Kitchen;** - (east) right side of kitchen exit door - by wash area - attached to wall
A3-159	**Classroom;** (north) right side of entry door - attached to wall
A1-160	**Chemistry Lab;** (south) right side of north entry door - attached to wall
A3-160	**Chemistry Lab;** (north) left side of south entry door - attached to wall
A3-168	**Culinary Lab; (north)** left side of entry door, across from office **A3-168.1 -** attached to wall
A3-168	**Culinary Lab;** (north) left side of rear exit, attached to wall (by stoves and grills)
A3-Hall	**Between** stairwell A and **caretaking** room **A3-170** - in hose cabinet

Continued next page

Level B2	
Location	**Location Notes**
B2-100	**Breaktime;** (right side) east side of east entrance - attached to wall, above sink
B2-131	On back wall (north wall) - attached to wall
B2 Hall	Right side of room **B2-143** - inside hose cabinet
B2 Hall	Right side of room **B2-153 -** in hose cabinet
B2-161	**I .T. ;** attached to 1st pillar in centre of hall
B2-161.2	**I .T. ;** Inside room **B2-161.2**
B2-171	**Datacenter** - (right) west side of entrance - above computer table - attached to wall
B2-181	**Computer Lab;** right side (north) of entry door - attached to wall
B2 Hall	Between **Stairwell P** and **B2-182** - in hose cabinet
B2-219	**Electrical Room;** Bottom of ramp on back (east) side of pillar - on floor
B2 Hall	On corner beside (right) office **B2-205 -** in extinguisher cabinet
B2 Hall	**B2 lower;** between room **B2-215** and **elevator,** north wall - n extinguisher cabinet
B2-Hall	**B2 lower;** on corner of hallway leading to **Theater B3-250** lower entry- attached to wall
B2-299	**Senario Lab;** (southwest) right side (west wall) of entry door - attached to wall
B2-Hall	Left side (east) of room **B2-309** west entry doors - in extinguisher cabinet
B2-315	**Computer Lab;** right side (west) of main entry doors - attached to wall
B2 Hall	Left side (east) of room **B2-315** - in extinguisher cabinet
B2-319	**CSI Computer Lab;** (west) right side of room, by first aid kit - attached to wall
B2-329	**Pharmacy Lab;** (south wall) at back of room, in approx. middle of wall - attached to wall
B2-341.2	**Aseptic Lab;** (east) left side of room close to entrance - attached to wall
B2 Hall	Across from office **B2-351 -** in extinguisher cabinet
B2 Hall	Across from **Duplicating** room **B2-360** in main hall - inside hose cabinet
B2-367	**Staff Lounge;** (north wall) on right side between mail boxes - attached to wall

Level B3	
Location	**Location Notes**
B3 Hall	(east) Right of room **B3-131** - in hose cabinet
B3 Hall	(east) Right of **Stairwell Q** across from classroom **B3-150** - in hose cabinet
B3 Hall	(west) Left of room **B3-182** - inside hose cabinet
B3 Hall	Across from office **B3-191** - in extinguisher cabinet
B3 Hall	Across from north entry to **Theater B3-250,** above garbage bin - attached to wall
B3-200	**B3 upper - Engineering Commons; (**south) left side of room, on west wall - attached to wall
B3-200	**B3 upper - Engineering Commons;** (north) right side of room, left side of office **B3-200.5**

Continued next page

Level B3 - cont.	
Location	**Location Notes**
B3-200	**B3 upper - Engineering Commons; upper level;** , near north end staircase - attached to wall
B3-Hall	Between **Engineering lab B3-200 & ACES** main doors west wall - attached to wall
B3 Hall	(east) Left side of office **B3-305** - in extinguisher cabinet
B3 Hall	(west) Right of office **B3-323** - in extinguisher cabinet
B3 Hall	(south) Right side of office **B3-337** - in extinguisher cabinet
B3 Hall	Across from room **B3-343** - in hose cabinet

Level C0	
Location	**Location Notes**
C0 Hall	**AES;** near room **C0-100** - by elevator - inside hose cabinet
C0 Hall	**AES;** near room **C0-113** - inside hose cabinet
C0-206	**Storage** (under STEELE Centre) - (north) left side of sprinkler room - attached to wall
C0-206	**Storage** (under STEELE Centre) - (east) right side of door leading to KTTC - in hose cabinet

Level C1	
Location	**Location Notes**
C1 Hall	Across from **Electrical room C1-101**, (south) left side of sink - attached to wall
C1-101	**Electrical Room; (**south west corner) back right corner of room - attached to wall
C1-106	**Shipping / Receiving;** (west**)** left side of top of ramp - attached to wall
C1 Hall	(south) Right side **Shipping / Receiving** office **C1-106.2** - inside hose cabinet
C1-106.5	**Dock 8;** attached to wall between roll-up door and man door
C1-203.1	(west) Back wall under clock - in hose cabinet
C1-220	**Library**; across from elevator, (south) left of room **C1-230** - in hose cabinet
C1-220	**Library;** (west) right side of Stairwell C door, at back of room - in hose cabinet
C1-Hall	Between rooms **C1-300 & C1-302** - inside hose cabinet
C1-306	**Conservation Lab;** (north) right side of south entry door to lab - attached to wall
C1-306	**Conservation Lab;** (west) right side of AV cart - attached to wall
C1-306	**Conservation Lab;** (west) left of exterior exit (double doors) - attached to wall
C1-306	**Conservation Lab;** north section of room - (east) left of **Stairwell D** - attached to wall
C1 Hall	(south) Left of north entry door to **Conservation Lab C1-306** - inside hose cabinet
C1 Hall	Between the rear doors to **Kitchen C1-401** and Tim Hortons door **C1-410** - in hose cabinet
C1-400	**Maintenance room;** (west) left side of door - attached to wall
C1-401	**Main Kitchen;** - Approx. centre of kitchen - attached to pillar
C1-410.2	**Tim Hortons;** underneath phone, across from entry door
C1-420	**Café lower;** left side of south double doors (closest to SAC) of lower café - attached to wall

Continued next page

Level C1 cont'd	
Location	**Location Notes**
C1-420	**Café lower;** left side of east double doors of lower café (closest to fireplace) - attached to wall
C1-420	**Café**; approx. mid point of accessibility ramp to lower café - in hose cabinet
C1-440	Steele Centre; (north east) corner - back corner behind Pizza Pizza - attached to wall
C1-440	Steele Centre; between Pub C1-450 doors and STEELE elevator - in hose cabinet
C1-440	Pizza Pizza/Epic burger; located on first pillar - under electrical switches
C1-440	Pizza Pizza/Epic burger; attached to 2nd pillar , closest to fridge
C1-440	Pizza Pizza/Epic burger; attached to 2nd pillar , closest to grill
C1-450	Steele Centre Pub; left side of stairs leading to men's/woman's washrooms - attached to wall
C1-450	Steele Centre Pub; (east) right side of double doors leading to Pub patio - attached to wall
C1-450	Steele Centre Pub; (south) left side of bar- in extinguisher cabinet

Level C2	
Location	**Location Notes**
C2-Roof	**Roof access;** (south) right side of roof access door - located in stairwell **L -** attached to wall
C2-100	**Counselling Services;** (south) right side of waiting room - in hose cabinet
C2-101	**Registry office;** (south) left of office **C2-101.12 -** in hose cabinet
C2 Hall	**C2 upper**; across from elevator, behind **LRC** room **C2-102 -** in hose cabinet
C2-102	**LRC;** (west) right of Stairwell K door at back of room - in hose cabinet
C2-119	**Continuing Ed/Admissions;** (north) right side of printer room - in hose cabinet
C2 Hall	**C2 lower;** (north) right side of **Men's washroom C1-126** - in hose cabinet
C2 Hall	**C2 lower;** (east) right side of office **C1-139** - in hose cabinet
C2 Hall	**C2 lower; (south)** right side of **Courtroom Lab C1-159** - in hose cabinet

Level D0	
Location	**Location Notes**
D0 Hall	Attached to corner, across from washrooms - in locked extinguisher cabinet
D0 Hall	North hallway - between (*skills arena*) and (*HVAC*) (east) right side of doors - attached to wall
D0 Hall	(south)Left side of **D0-122** entry doors - in locked extinguisher cabinet
D0-101	**Skills Arena;** left side main entrance (north side of doors) - in locked extinguisher cabinet
D0-101	**Skills Arena;** (east) right side of north entry doors - in cabinet
D0-101.1	**Kube;** bottom of north staircase - attached to pillar (yellow)
D0-101.1	**Kube;** bottom of south staircase - attached to pillar (yellow)
D0-101.1	Back of classroom - on floor under tool cabinets
D0-101.1	Under south staircase - on floor
D0-101.2	**Kube;** top of north staircase - attached to pillar (yellow))
D0-101.2	**Kube;** top of south staircase - attached to pillar (yellow)
D0-101.3	**Kube;** top of north staircase - attached to pillar (yellow)
D0-101.3	**Kube;** top of south staircase - attached to pillar (yellow)

Continued next page

Level D0-continued	
Location	**Location Notes**
D0-101.4	**Kube;** top of north staircase - attached to post with exit sign
D0-101.4	**Kube;** top of south staircase - attached to post with exit sign
D0-101.6	**Mechanical room;** (east) left side of entry door under extinguisher cabinet
D0-101.6	**Mechanical room;** (east) left side of entry door- in extinguisher cabinet
D0-101.7	**Classroom;** (west) right side of west entry doors to classroom - in extinguisher cabinet
D0-122	**HVAC/HRAC shop**; (east) right side of tall entry doors - attached wall
D0-122	**HVAC/HRAC shop**; north side single exit door, left side of door - on widow ledge
D0-122.2	**Storage/Compressor room;** on wall by **D1-222** (*HVAC/HRAC lab*)
D0-130	**Welding shop;** (east) right side of main entry doors - attached to wall
D0-130	**Welding shop;** (west) left side of main entry doors, attached to pillar - in extinguisher cabinet
D0-130	**Welding shop;** (northwest corner) beside pillar with shop monitors attached to - on floor
D0-134	**Classroom;** (west) right side of main doors - attached to wall
D0-134	**Classroom;** beside double doors leading to (*wielding shop)* **D0-130**
D0-137	**Receiving;**,(north) right side of interior roll-up door leading into hall- in extinguisher cabinet
D0-137	**Receiving;** (north) left side of **D0-137.1** door - on floor beside flamable storage
D0-137	**Receiving;** (east) right side of entry door to **Gas room 2 D0-137.5** - on floor
D0-137	**Gas room 2;** (east) right side of door on outside of room - on floor
D0-137	**Gas room 1;** (east) right side of door on outside of room - on floor
D0-137.3	**Electrical Room;** (south) left side of entry door - attached to wall
D0-137.4	**Gas room 1;** (east) right side of door - on floor

Level D1	
Location	**Location Notes**
Hall D1	(north) right side of **elevator when facing doors** - in extinguisher cabinet
D1-110	**Computer Lab;** (west) right side of entry doors - attached to wall
D1-111	**Classroom;** (east) right side of double entry doors - attached to wall
D1-114	**Classroom;** (south) left of entry door, behind on floor in corner
D1-118	**Classroom;** Behind entry door - on floor
D1-Hall	(west wall) Right side by **D wing main entrance** - in extinguisher cabinet
D1-129	(north) Right side of double entry doors - in extinguisher cabinet
D1-129.1	(south) Right side of entry door - in extinguisher cabinet

Level D2	
Location	**Location Notes**
D2	(west) right side of roof access doors - on floor

Continued next page

Drive Shed
Location Notes
Outside Yard; attached to front of fueling station - on centre post
In building; east entry door -right side of door (east) - attached top wall
In building; in between dock doors **11 & 12** - attached to wall
In building; back wall (north wall) -next to yellow fuel storage cabinet - attached to wall
In building; in between dock door **14** and west entry door - attached to wall
In building; right side (west) of west entry door - attached to wall

Farmhouse	
Location	**Location Notes**
1st Floor	Attached to side of cabinet - across from basement door
1st Floor	(north) Left of southeast exit - in boardroom -attached to wall
2nd Floor	Attached to side of cabinet - across from main staircase

End of list

Appendix B

Hazardous Materiels

ROOM - A3160 - Chemistry Lab

Item Name *	Quantity	Unit Size
Ethanol, unknown concentration	5	dropper bottle
Goex black powder	1	454g
Smokeless gun powder	3	in petri dish
Rifle powder	1	454g
Methanol, Reagent Grade	5.5	1L
Ammonium Hydroxide, concentrated acid	2	2L
Sodium Hydroxide, 10.0N Solution	1	500mL
Nitric acid, concentrated	1	3.25kg
Sulfuric acid, concentrated	1	4.25kg
Sulfuric acid, 18M	2	500mL & 2.2L
Hydrochloric acid, 6.0N Solution	1	500mL
Hydrochloric acid, 37%	1	2.5L
Sodium Hypochlorite, 6%	1	500mL
Ferric Chloride, copper etchant solution	2	4L
Acetic Acid, Glacial	2	4L & 500mL
Orthophosporic Acid, concentrated	1	2L
Ethyl Acetate: Ethanol: Water (70:35:30)	1	1L
Ethyl Acetate: Ethanol: Water (70:35:30)	4	500mL
Ethanol, 10% solution	5	dropper bottle

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Sulfur Roll	1	500g
Potassium thiocyanate	1	100g
Sodium Tetraborate Decahydrate	1	500g
Sodium Tetraborate Decahydrate	1	500g
Potassium hydrogen phthalate	2	500g
L-Ascorbic acid	1	500g
L-Ascorbic acid	1	100g
DL-Aspartic acid	2	100g
Salicylic acid	1	25g
Sodium carbonate	1	500g
Adipic acid	1	500g
Potassium Ferricyanide	1	500g
Cinnamic acid	3	100g
Stearic acid	1	500g
Ethylenediaminetetra-acetic acid	1	500g
Salicylic acid	1	500g
Lithium carbonate	2	100g
Calcium carbonate	1	1lb
Ferric Oxide	1	500g
Aluminum Oxide	1	1kg
Sodium Iodide	2	100g
Sodium Acetate Trihydrate	3	500g
Calcium Acetate	1	500g
Sodium Bromide	1	500g

ROOM - A3160.1 - Chemical Storage Room

Potassium Chloride	2	500g & 2.5kg
Barium Chloride Anhydrous	2	500g
Sodium Chloride	2	2.5kg
Strontium Chloride	1	500g
Ammonium Chloride	1	500g
Sodium Thiosulfate Anhydrous	1	500g
Sodium Thiosulfate	1	500g
Magnesium Sulphate	2	500g
Calcium Sulphate	1	500g
Sodium Phoshate Dibasic	1	25g
Magnesium Sulphate	2	500g
Magnesium Sulphate	1	500g
Lithium Sulphate	1	500g
Sodium Sulfate	1	500g
Ferrous Sulfate	1	500g
Activated Charcoal	1	1lb
Activated Charcoal & Darco Activated Carbon	1	
Agarose	1	~100g
Albumen, egg flake	1	250g
Anti-bumping Granules	1	500g
Cholesterol	1	100g
Glycerol	2	1L
Lactose	1	1lb
L-Cysteine	1	25g
Polyvinyl Alcohol	1	500g
Polyvinyl Alcohol	1	1kg
Bromophenol Blue	1	5g
Bromocresol Purple	1	5g
Bromocresol Green	1	5g
Nigrosine	1	25g
Safranin O	1	25g
Solochrome Black (Eriochrome Black)	1	25g
Eriochrome Black T	1	100g
Phenolphthalein	1	113g

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
L-Phenylalanine	1	25g
DL-B-Phenylalanine	2	25g
Bromothymol Blue	1	5g
Amylase, Bacterial Powder	3	25g
Boileezers	1	250g
Pump Oil	1	1L
Magnum Lead Shot	1	25lbs
Graphite powder	1	1kg
DTT (DL-Dithiothreitol)	1	5g
TBS Buffer (dry chemical)	5	25g
Phenol Chloroform	1	400mL
Ethidium Bromide	1	25mL
2-Mercaptoethanol	1	10 x 1mL ampules
X-GAL Solution, 20mg/mL	5	10mL

Kanamycin Sulfate	1	10g
Nitrate Reagent A, 0.8% sulfanic acid	2	50mL
Nitrate Reagent B	2	50mL
Methyl Orange	1	28.35g
Ammonium Thiocyanate	1	500g
Potassium Chlorate	2	500g
Hydrogen Peroxide, 30%	1	500mL
Potassium Chlorate	1	5lbs
Potassium Permanganate	1	500g
Sodium Chromate	1	500g
Potassium Permanganate	2	500g
Potassium Permanganate	1	500g
Ammonium Dichromate	1	500g
Sodium Dichromate	1	500g
Potassium Chromate	1	500g
Potassium Dichromate	2	500g
Potassium Dichromate	1	500g
Potassium Dichromate	1	500g
Boric acid	1	500g
Tannic acid	1	453g
Oxalic acid	5	1lb
Benzoic acid	1	1lb
Oxalic acid	1	1lb
Malic acid	1	1lb
Nicotinic acid	1	100g
Fumaric acid	1	500g
Citric acid Monohydrate	1	3kg
Cupric Carbonate	1	500g
Sodium Carbonate	1	1kg
Potassium Carbonate	1	500g
Chromium Trioxide	1	500g
Lead	1	500g
Sodium Nitrate	2	500g
Zinc Nitrate, 6-Hydrate	1	500g
Zinc Nitrate	1	500g
Cupric Nitrate	1	500g
Lead Nitrate	1	500g
Strontium Nitrate	1	100g
Silver Nitrate	1	10g
Potassium Nitrate	1	2kg
Ammonium oxalate	2	1kg
Barium Nitrate	2	500g
Barium Nitrate	1	500g
Silver Nitrite	1	25g

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Calcium Nitrate	1	500g
Magnesium Nitrate	1	500g
Strontium Nitrate	1	500g
Cadmium Nitrate	1	500g
Iodine, resublimed	6	500g
Iodine	1	100g

Potassium Iodate	1	100g
Potassium Bromide	1	453g
Lead Acetate	2	100g & 500g
Cupric Acetate	1	500g
Sodium Fluoride	1	500g
Cupric Bromide	1	1lb
Stannous Chloride	1	100g
Stannous Chloride	1	1lb
Copper (I) Chloride Anhydrous	1	500g
Cobalt Chloride	2	100g
Manganese Chloride	1	500g
Zinc Chloride	1	100g
Lithium Chloride	1	500g
Calcium Chloride	1	500g
Ferric Chloride	1	500g
Nickel Chloride	1	500g
Nickel Chloride	1	500g
Nickel Sulphate	1	500g
Copper (II) Sulfate	2	500g
Copper (II) Sulfate	3	500g
2,4 Dinitrophenylhydrazine	1	100g
Hydroquinone	1	100g
Hydroquinone	1	500g
Calcium Hydroxide	1	500g
Potassium Hydroxide Pellets	1	500g
Potassium Hydroxide Pellets	1	500g
Sodium Hydroxide Pellets	1	500g
Sodium Hydroxide Pellets	1	1kg
Magnesium turnings	2	
Magnesium ribbon	2	30g
Calcium Metal Granular	2	25g
Zinc powder	2	500g
Zinc metal lumps	1	5lbs
Aluminum metal shot	1	1lb
Potassium metal	1	10g
Aluminum powder	1	500g
Magnesium powder	1	100g
Lithium rods	1	25g
Sodium metal lumps	1	100g
Aluminum metal shot	1	5lbs
Zinc metal sticks	1	500g
Calcium carbide	2	500g
Palladium	1	10g
Acetic Acid, Glacial	1	2.5L
Ethanol, 85%	1	20L
Anhydrous Ethyl Alcohol	15	500mL
Ethyl Alocohol, 95%	1	500mL
Alcohol, Denatured	1	4L
Acid Alcohol Decolorizer	1	250mL
Acetone	2	1L & 4L
Ethyl Acetate	2	500mL
Amyl Acetate	1	500mL

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Cyclohexanol	3	500mL
Cyclohexane	2	1L
Cyclohexanone	1	1L
Hexanes	1	500mL
Pentan-3-one	5	250mL
Bright White	1	10g
Octane	4	3- 500mL & 1- 1L
Octan-1-ol	3	500mL
2-Octanone	1	1kg
Nonane	3	500mL
Heptane	1	1L
Heptan-1-ol	1	500mL
Hexamethylenediamine	1	100g
Decane	1	500mL
1-Decanol	1	500mL
iso-Pentyl Alcohol	1	500mL
Isoamyl Alcohol	1	1L
Chloroform	1	1L
Chloroform/isoamyl alcohol, 24:1	1	500mL
Methanol	1	500mL
Methyl Benzoate	1	500mL
Pentyl Alcohol	2	500mL
4-Methyl-2-Pentanone	1	1L
Methylene Chloride	2	500mL
Ethyl Ether	1	500g
Ether for Anesthesia	1	500g
Phenyl Ether	1	500g
Ethylene Glycol	1	500mL
iso-Butyl Methyl Ketone	1	1L
Acetaldehyde	1	500mL
Ethanolamine	1	500mL
Sodium Lactate, 70% w/w	1	500mL
n-Heptanol	1	100mL
Oleic acid	1	500mL
Butan-2-ol	1	1L
1-Butanol	1	1L
Xylenes	1	500mL
para-Xylene	1	1L
2,2,4 Trimethylpentane	2	1L
1-Propanol	1	1L
1-Propanol	1	1L
Propionic acid	2	500mL
Propane-1,2-diol	1	500mL
2-Methylpropan-2-ol	1	500mL
2-Methyl-2-Propanol	1	250mL
2-Propanol	1	1L
Amyl Alcohol	2	2L
Cyclohexene	4	Dropper bottle
2-Butanol	4	Dropper bottle
Octyl Alcohol	1	Dropper bottle

Paraffin Liquid	2	Dropper bottle
Isopropanol	2	Dropper bottle
Ethylene Glycol	3	Dropper bottle
Cyclohexane	1	4L
O-Xylene	1	4L
Isopropyl Alcohol	1	4L
Methanol Absolute, Acetone Free	1	3.8L
1-Butanol	1	4L

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Ethylene Glycol	1	4L
Hexan-1-ol	1	4L
Ortho-Xylene	1	4L
1-Propanol	1	4L
Toulene	1	4L
Toulene	1	500mL
Sodium Hydroxide Solution, 5.0N	2	100mL
Sulfuric Acid Standard Solution, 5.25N	3	100mL
0.1-3M Hydrochloric Acid	varies	Dropper bottles & va
18M- 0.25M Sulfuric Acid	varies	Dropper bottles & va
Ethanoic Acid	1	500mL
Nitric Acid Soultion 1:1	1	500mL
3M Nitric Acid	4	200-500mL
Acetic Acid, Glacial	1	500mL
Acetic Acid	1	500mL
Butanoic Acid	1	100mL
0.1-6M Sodium hydroxide	varies	Dropper bottles & va
Calcium hydroxide, unknown concentration	2	Dropper bottle
3M- Concentrated Ammonium hydroxide		Dropper bottles & va
0.1M HCl	1	10L
0.1M NaOH	1	10L
0.05M Sulfuric Acid	1	2L
0.1M HCl	1	2L
Sodium Hydroxide, unknown concentration	1	3L
1M HCl		3L
Barritt's Reagent A	1	100mL
Ethyl Acetate	3	1L
Ferric nitrate	1	250g
Silver Nitrate	1	100g
Copper II nitrate trihydrate		
potassium thiocyanate, 98% pure	1	100g
Formic Acid, 1M	1	500mL
Ethanol, 10% solution	5	dropper bottle
Iodine Solution		Dropper and/or 500mL
Sudan IV in Acetone	1	Dropper and/or 500mL
TB Methylene Blue	1	250mL
Bromocresol Green	1	500mL
Methyl Red	1	500mL
Neutral Red	1	100mL
Bromothymol Blue	1	500mL
Biuret Reagent Solution	2	1L
Crystal Violet Indicator	1	100mL

Bromothymol Blue	1	25mL
Bromothymol Blue		Dropper and/or 500mL
Iodine Solution	1	100mL
Canola Oil		Dropper bottles
Universal Indicator Solution		Dropper bottles
Benedicts Solution	varies	Dropper bottles
Methyl Red		Dropper bottles
Paraffin Liquid	1	100mL
Universal Indicator Solution	2	500mL
Sudan IV 0.5% Solution	1	500mL
Mineral Oil Light	1	1L
Phenolphthalein solution, 1%	1	500mL
10% Sodium Chloride Solution	1	20L
pH 3 Solution	1	20L
pH 11 Solution	1	20L
Lead Acetate, unknown molarity	2	500mL

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Ammonium Chloride, unknown molarity		Dropper and/or 500mL
0.1M Barium Chloride		Dropper and/or 500mL
0.2M Cobalt Chloride		Dropper and/or 500mL
0.1M Copper Chloride		Dropper and/or 500mL
0.1M Iron Chloride		Dropper and/or 500mL
0.2M Nickel Chloride		Dropper and/or 500mL
0.1M Manganese Chloride		Dropper and/or 500mL
0-1-0.5M Calcium Nitrate		Dropper and/or 500mL
0.5M Barium Nitrate		Dropper and/or 500mL
0.1-0.2M Copper Nitrate		Dropper and/or 500mL
0.5-1M Sodium Nitrate		Dropper and/or 500mL
0.2M Iron Nitrate		Dropper and/or 500mL
0.01-0.1M Silver Nitrate		Dropper and/or 500mL
0.1M Sodium Sulfate		Dropper and/or 500mL
0.1-0.5M Copper Sulfate		Dropper and/or 500mL
1% Ferrous Ammonium Sulfate	1	500mL
0.1M Magnesium Sulfate		Dropper and/or 500mL
0.1M Ammonium Thiocyanate		Dropper and/or 500mL
0.1M Potassium Ferrocyanate		Dropper and/or 500mL
0.002M Potassium Thiocyanate	1	200mL
0.002-0.1 Potassium Thiocyanate		Dropper and/or 500mL
5% Potassium Dichromate		Dropper and/or 500mL
0.1M Potassium Dichromate		Dropper and/or 500mL
1% Potassium Permanganate		Dropper and/or 500mL
Saturated Sodium Bicarbonate Solution	1	500mL
0.1-1M Sodium Carbonate		Dropper and/or 500mL
20% Sodium Carbonate		Dropper and/or 500mL
0.1%-Saturated Sodium Chloride		Dropper and/or 500mL
0.1-1M Sodium Chloride		Dropper and/or 500mL
3% Hydrogen Peroxide		Dropper and/or 500mL
Sucrose solution		Dropper and/or 500mL
10% Glucose solution		Dropper and/or 500mL
5% Dextrose solution		Dropper and/or 500mL
0.1M Sodium Bromide		Dropper and/or 500mL

0.1M Sodium Iodide		Dropper and/or 500mL
0.1M Potassium Chloride		Dropper and/or 500mL
0.5M EDTA, pH 8 Solution	1	500mL
Benedicts Solution	1	4L
1X TAE	1	3L
Buffer Solution pH 4	3	500mL
Buffer Solution pH 7	2	500mL
Buffer Solution pH 10	2	500mL
Ag/AgCl Filling Solution (goes inside pH probe)	2	60mL
Electrode Storage Solution	1	1L
Iodine Solution		
TB Methylene Blue		Dropper and/or 500mL
Bromocresol Green	1	Dropper and/or 500mL
Methyl Red	1	250mL
Neutral Red	1	500mL
Bromothymol Blue	1	500mL
Biuret Reagent Solution	1	100mL
Crystal Violet Indicator	1	500mL
Bromothymol Blue	2	1L
Bromothymol Blue	1	100mL
Iodine Solution	1	25mL
Canola Oil		Dropper and/or 500mL
Ag/AgCl Filling Solution (goes inside pH probe)	2	500mL
Electrode Storage Solution	2	500mL

ROOM - A3160.1 - Chemical Storage Room

Item Name *	Quantity	Unit Size
Methyl Red		Dropper bottles
Paraffin Liquid	varies	Dropper bottles
Universal Indicator Solution		Dropper bottles
Sudan IV 0.5% Solution	1	100mL
Mineral Oil Light	2	500mL
Phenolphthalein solution, 1%	1	500mL
10% Sodium Chloride Solution	1	1L
pH 3 Solution	1	500mL
pH 11 Solution	1	20L
Lead Acetate, unknown molarity	1	20L
Ammonium Chloride, unknown molarity	1	20L
0.1M Barium Chloride	2	500mL
0.2M Cobalt Chloride		Dropper and/or 500mL
0.1M Copper Chloride		Dropper and/or 500mL
0.1M Iron Chloride		Dropper and/or 500mL
0.2M Nickel Chloride		Dropper and/or 500mL
0.1M Manganese Chloride		Dropper and/or 500mL
0-1-0.5M Calcium Nitrate		Dropper and/or 500mL
0.5M Barium Nitrate		Dropper and/or 500mL
0.1-0.2M Copper Nitrate		Dropper and/or 500mL
0.5-1M Sodium Nitrate		Dropper and/or 500mL
0.2M Iron Nitrate		Dropper and/or 500mL
0.01-0.1M Silver Nitrate		Dropper and/or 500mL
0.1M Sodium Sulfate		Dropper and/or 500mL
0.1-0.5M Copper Sulfate		Dropper and/or 500mL
1% Ferrous Ammonium Sulfate		Dropper and/or 500mL

0.1M Magnesium Sulfate		Dropper and/or 500mL
0.1M Ammonium Thiocyanate	1	500mL
0.1M Potassium Ferrocyanate		Dropper and/or 500mL
0.002M Potassium Thiocyanate		Dropper and/or 500mL
0.002-0.1 Potassium Thiocyanate		Dropper and/or 500mL
5% Potassium Dichromate	1	200mL
0.1M Potassium Dichromate		Dropper and/or 500mL
1% Potassium Permanganate		Dropper and/or 500mL
Saturated Sodium Bicarbonate Solution		Dropper and/or 500mL
0.1-1M Sodium Carbonate		Dropper and/or 500mL
20% Sodium Carbonate	1	500mL
0.1%-Saturated Sodium Chloride		Dropper and/or 500mL
0.1-1M Sodium Chloride		Dropper and/or 500mL
3% Hydrogen Peroxide		Dropper and/or 500mL
10% Glucose solution		Dropper and/or 500mL
5% Dextrose solution		Dropper and/or 500mL
0.1M Sodium Bromide		Dropper and/or 500mL
0.1M Sodium Iodide		Dropper and/or 500mL
0.1M Potassium Chloride		Dropper and/or 500mL
0.5M EDTA, pH 8 Solution		Dropper and/or 500mL
Benedicts Solution		Dropper and/or 500mL
Buffer Solution pH 4	1	4L
Buffer Solution pH 7	1	3L
Buffer Solution pH 10	3	500mL

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
Agar pure powder	1	1kg
Chelex 100 Molecular Biology Grade Resin	1	50g
CM0001 Nutrient broth	1	500g
Course salt	1	750g
Dextrin	1	~300g
Difco Lysine Decarboxylase broth	1	500g
Difco Nitrate Broth	1	500g
Difco Nutrient gelatin	1	500g
Difco OF Basal Medium	1	500g
Difco Potato Dextrose Broth	1	500g
Gelatin	1	453g
GelRed Nucleic Acid Gel Stain, 10,000x in water	3	0.5mL
Glycerol	1	1L
Glycerol	2	1L
Heart infusion agar- dehydrated	1	454g
LB Agar Lennox	1	1kg
LB Agar Miller	1	500g
LB Agar Miller (Powder)	1	500g
LB Broth Lennox	1	1kg
LB Broth, Miller	1	500g
MacConkey Agar #3	1	500g
Mannose	1	25g
Nutrient agar media premix	1	500g
Nutrient Broth (Powder)	1	500g
NZY Broth	1	500g

Orange G Disodium Salt	1	25g
Phenol Red Dextrose Broth	1	500g
Phenol Red Lactose Broth	1	500g
Potassium acetate	1	250g
Potato dextrose agar- dehydrated	1	454g
Silica gel	1	500g
Sodium acetate	1	500g
Sodium carbonate	1	10g
Starch agar	1	114g
Tris	1	1kg
Tris	1	1kg
Tryptic soy broth	2	454g
Tryptone T	1	500g
Urea broth	1	454g
Acridine orange-powder	1	10g
Brilliant green-powder	1	25g
Brilliant yellow-powder	1	5g
Bromo-phenol blue- powder	1	5g
Erythrosin B- powder	1	10g
Fuchsin basic- powder	1	100g
Glass beads- 0.1mm	1	454g
H.I.O Immersion oil	1	4oz
Immersion oil- Type A	1	1oz
Immersion oil- Type A	1	10mL
Indigo carmine-powder	1	25g
Malachite Green- powder	1	25g
Maritus yellow- powder	1	5g
Methylene blue-powder	1	25g
Orcein- powder	1	5g
Xylene cyanole- powder	1	10g
Glass beads- 3mm	1	454g
Glass beads- 500-700micron	1	250g
Cresol purple- powder	1	1g

ROOM - A3160.2 - Bio-Tech Forensic Storage

Immersion oil	6	dropper bottle
Crystal violet (powder?)	1	100g
Safranine stain- powder	1	100g
Wright's stain- powder	1	100g
Sudan Black B- powder	1	25g
Sudan IV Biostain- powder	1	10g
Sudan Red- powder	2	5g
Sterile mineral oil	1	5mL
Ponceau S	1	10g
Bromophenol blue- powder	1	1g
Coomassie Brilliant Blue R-250- powder	1	5g
Sodium Chloride	1	1kg
Glycine	2	500g
Skim milk powder	1	65g
Methanol	6	Dropper bottle
Sulfanilic acid	1	25g
Rhodizonic acid disodium salt, 97%	1	5g

Potassium iodide	1	100g
Potassium iodide	1	25g
BT AG 50W-X2 Resin	1	100g
Sodium polytungstate	1	100g
Ninhydrin Fingerprint Reagent, Ethanol aerosol	3	113g
Hi-Fi Latent Print Powder, heavy black (volcano)	1	473mL
Fluorescent Latent Print Powder, REDescent	1	473mL
Luminol, dry chemical	4	
Sodium Phosphate Monobasic, ACS Grade Monohydrate	1	500g
Urea, Ultra Pure, Molecular Biology Grade	1	500g
Agarose, Biotechnology Grade	1	500g
BBL MacConkey Agar	1	500g
BBL Levine Eosin Methylene Blue Agar	1	500g
Mannitol Salt Agar	1	500g
MRVP Medium	1	500g
Mueller Hinton Medium	1	500g
Simmons Citrate Agar	1	500g
Potassium Iodide	1	250g
Tartrazine	1	25g
LB Broth Miller	1	1kg
Potassium Iodide	1	500g
Mueller Hinton Agar	1	500g
Phenol red lactose broth, HiVeg	1	500g
LB Agar Miller	1	500g
Methyl orange-powder	1	25g
Sodium Dodecyl Sulfate	1	500g
Ethidium Bromide	1	5gm
Gentian violet solution	1	500mL
Calcium chloride dihydrate	1	500g
Imidazole	1	100g
Calcium hydroxide	1	250g
Naphthylamine	1	25g
Diphenylamine	1	100g
0.5M EDTA, pH 8 Solution	1	500mL
0.5M EDTA, pH 8 Solution	1	1L
Prepared 2.0% Agarose	1	200mL
Basic fuchsin stain	1	500mL
Aceto-carmine stain	1	100mL
Methyl green stain	1	100mL
TB methylene blue stain	1	250mL
Polychrome methylene blue stain	1	1L

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
Carbol methylene blue stain	3	1L
Albert's Stain (Toluidine Blue)	1	1L
Ethyl alcohol, denatured	1	500mL
Acid alcohol decolourizer	2	250mL
Safranin O Solution (For Gram Stain kit- Part C)	4	250mL
Iodine Solution (For Gram Stain kit- Part D)	1	250mL
Iodine Solution	1	1L
Iodine Solution	2	Dropper bottle
Bromothymol Blue	5	Dropper bottle
Bromo-cresol Green	3	Dropper bottle
Litmus	1	500mL

Hydrogen Peroxide	3	Dropper bottle
Alcohol	1	Dropper bottle
Brilliant green, 1%	4	Dropper bottle
Methylene Blue	3	Dropper bottle
Wright's Stain	1	4L
Green pipetting solution- soapy (for DNA1)	1	1L
Red pipetting solution- normal (for DNA1)	1	1L
Blue pipetting solution- dense (for DNA1)	1	1L
10X TE buffer	1	1L
TNES lysis buffer	1	1L
5M NaCl Stock Solution	1	500mL
80% I.P.A solution	1	1L
Green pipetting solution- soapy (for DNA1)	12	15mL
Red pipetting solution- normal (for DNA1)	10	15mL
Blue pipetting solution- dense (for DNA1)	9	15mL
10% S.D.S solution	2	Dropper bottle
1x TE buffer, student aliquots	0	50mL
1x TE buffer, student aliquots	12	15mL
TNES lysis buffer, student aliquots	16	50mL
10mM NaCl, student aliquots	6	50mL
5M NaCl, student aliquots	7	15mL
5% chelex solution, student aliquots	4	50mL
3M Sodium acetate, student aliquots	7	15mL
80% Isopopanol, student aliquots	8	50mL
100% isopropanol, student aliquots	9	50mL
Sudan IV	2	dropper bottle
Staining Solution Coomassie	1	1L
Destain Solution	1	1L
30% Glycerol	3	50mL
3x protein loading dye	1	15mL
20% EtOH	1	50mL
Sterile water	1	50mL
Ponceaus S	1	50mL
20mM Tris	1	50mL
Bleach	1	5.38L
Greiss Test 1 (Napthalylamine)	5	Dropper bottle
Starch solution, 1%	3	250mL
Hydrochloric acid, 6M	2	100mL
Hydochloric acid, 3M(?) solution	6	Dropper bottle
Sodium thiosulfate solution	2	50mL
Sodium Hypochlorite	6	25mL
Silver nitrate, 0.1M	5	Dropper bottle
Sodium polytungstate solution	1	100mL
Optical lens cleaner	1	2oz
Screw cap culture tubes with unknown solution- broth?	13	
TSA-?	1	125mL
Ethanol, 95% denatured solution	2	30mL

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
small tube of unknown purple solution	2	5mL
PrepIT-LP2: PT-L2P-5 Purifer reagent (for Oragene kit)	2	5mL
Oragene purifier OG-L2P-1.8	1	1.5mL
0.5X TAE	1	10L carboy
50x TAE buffer concentrate	1	4L

0.1M Strontium Chloride	1	500mL
0.1 M Calcium chloride	1	500mL
0.5% Malachite Green Solution	1	500mL
FB Essence	1	50mL
Dimethyl sulfoxide (DMSO), sterile	1	50mL
PBS Buffer 10X sterile	1	500mL
0.5M EDTA, pH 8 Solution	1	500mL
0.5M EDTA, pH 8 Solution	1	1L
Prepared 2.0% Agarose	1	200mL
Basic fuchsin stain	1	500mL
Aceto-carmine stain	1	100mL
Methyl green stain	1	100mL
TB methylene blue stain	1	250mL
Polychrome methylene blue stain	1	1L
Carbol methylene blue stain	3	1L
Albert's Stain (Toluidine Blue)	1	1L
Ethyl alcohol, denatured	1	500mL
Acid alcohol decolourizer	2	250mL
Safranin O Solution (For Gram Stain kit- Part C)	4	250mL
Iodine Solution (For Gram Stain kit- Part D)	1	250mL
Iodine Solution	1	1L
Iodine Solution	2	Dropper bottle
Bromothymol Blue	5	Dropper bottle
Bromo-cresol Green	3	Dropper bottle
Litmus	1	500mL
Litmus	1	100mL
Hydrogen Peroxide	3	Dropper bottle
Alcohol	1	Dropper bottle
Brilliant green, 1%	4	Dropper bottle
Methylene Blue	3	Dropper bottle
Wright's Stain	1	4L
Green pipetting solution- soapy (for DNA1)	1	1L
Red pipetting solution- normal (for DNA1)	1	1L
Blue pipetting solution- dense (for DNA1)	1	1L
TNES lysis buffer	0	1L
5M NaCl Stock Solution	1	500mL
80% I.P.A solution	1	1L
Green pipetting solution- soapy (for DNA1)	12	15mL
Red pipetting solution- normal (for DNA1)	10	15mL
Blue pipetting solution- dense (for DNA1)	9	15mL
10% S.D.S solution	2	Dropper bottle
1x TE buffer, student aliquots	0	50mL
1x TE buffer, student aliquots	12	15mL
TNES lysis buffer, student aliquots	16	50mL
10mM NaCl, student aliquots	6	50mL
5M NaCl, student aliquots	7	15mL
5% chelex solution, student aliquots	4	50mL
3M Sodium acetate, student aliquots	7	15mL
80% Isopopanol, student aliquots	8	50mL
100% isopropanol, student aliquots	9	50mL
95% EtOH, student aliquots	8	50mL
85% EtOH, student aliquots	1	50mL
70% EtOH, student aliquots	6	50mL

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
TL Buffer, student aliquots	5	15mL
HB Buffer, student aliquots	5	15mL
Absolute ethanol, student aliquots	varies	15mL
BL Buffer, student aliquots	5	15mL
EQ Buffer	5	15mL
DNA Wash Buffer	5	15mL
Elution Buffer	5	15mL
Sudan IV	2	dropper bottle
Staining Solution Coomassie	1	1L
Destain Solution	1	1L
10x Running Buffer	1	1L
1x Running Buffer	1	1L
10X TBS	1	1L
1x TBS	1	1L
Transfer Buffer	1	1L
30% Glycerol	3	50mL
3x protein loading dye	1	15mL
20% EtOH	1	50mL
Sterile water	1	50mL
Ponceaus S	1	50mL
20mM Tris	1	50mL
Bleach	1	5.38L
Greiss Test 1 (Napthalylamine)	5	Dropper bottle
Starch solution, 1%	3	250mL
Hydrochloric acid, 6M	2	100mL
Hydochloric acid, 3M(?) solution	6	Dropper bottle
Sodium thiosulfate solution	2	50mL
Sodium Hypochlorite	6	25mL
Silver nitrate, 0.1M	5	Dropper bottle
Sodium polytungstate solution	1	100mL
Lysozyme, ultra pure	1	1g
Optical lens cleaner	1	2oz
Screw cap culture tubes with unknown solution- broth?	13	
PrepIT-LP2: PT-L2P-5 Purifer reagent (for Oragene kit)	2	5mL
Oragene purifier OG-L2P-1.8	1	1.5mL
0.5X TAE	1	10L carboy
50x TAE buffer concentrate	1	4L
Orange G	2	50mL
Brilliant yellow + glycerol	1	50mL
Methyl green + glycerol	1	50mL
Malachite green + glycerol	1	50mL
80% Ethylene glycol	1	50mL
Carbol fushin loading dye, 30% glycerol	1	50mL
Busic fuchsin loading dye + glycerol	1	50mL
Orange G loading dye	1	1mL
20% Copper Sulfate Solution		
0.1M Strontium Chloride	1	500mL
0.1 M Calcium chloride	1	500mL
20% Copper Sulfate Solution		
0.5% Malachite Green Solution	1	500mL
prepIT Purifier (used with Oragene kits)	4	1.5mL
Dimethyl sulfoxide (DMSO), sterile	1	50mL
PBS Buffer 10X sterile	1	500mL

0.5M EDTA, pH 8 Solution	1	500mL
0.5M EDTA, pH 8 Solution	1	1L
Prepared 2.0% Agarose	1	200mL
Basic fuchsin stain	1	500mL
Aceto-carmine stain	1	100mL

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
Methyl green stain	1	100mL
TB methylene blue stain	1	250mL
Polychrome methylene blue stain	1	1L
Carbol methylene blue stain	3	1L
Kovac's Reagent	1	250mL
Schiff's reagent	1	500mL
Millon's Test solution	1	100mL
Benedict's Reagent	1	500mL
Albert's Stain (Toluidine Blue)	1	1L
Ethyl alcohol, denatured	1	500mL
Acid alcohol decolourizer	2	250mL
Crystal violet solution	2	500mL
Safranin O Solution (For Gram Stain kit- Part C)	4	250mL
Iodine Solution (For Gram Stain kit- Part D)	1	250mL
Iodine Solution	1	1L
Bromothymol Blue	5	Dropper bottle
Bromo-cresol Green	3	Dropper bottle
Litmus	1	500mL
Litmus	1	100mL
Hydrogen Peroxide	3	Dropper bottle
Alcohol	1	Dropper bottle
Brilliant green, 1%	4	Dropper bottle
Methylene Blue	3	Dropper bottle
Wright's Stain	1	4L
Green pipetting solution- soapy (for DNA1)	1	1L
Red pipetting solution- normal (for DNA1)	1	1L
Blue pipetting solution- dense (for DNA1)	1	1L
10X TE buffer	1	1L
TNES lysis buffer	1	1L
5M NaCl Stock Solution	1	500mL
80% I.P.A solution	1	1L
Green pipetting solution- soapy (for DNA1)	12	15mL
Red pipetting solution- normal (for DNA1)	10	15mL
Blue pipetting solution- dense (for DNA1)	9	15mL
10% S.D.S solution	2	Dropper bottle
1x TE buffer, student aliquots	12	15mL
TNES lysis buffer, student aliquots	16	50mL
10mM NaCl, student aliquots	6	50mL
5M NaCl, student aliquots	7	15mL
5% chelex solution, student aliquots	4	50mL
3M Sodium acetate, student aliquots	7	15mL
80% Isopopanol, student aliquots	8	50mL
100% isopropanol, student aliquots	9	50mL
95% EtOH, student aliquots	8	50mL
85% EtOH, student aliquots	1	50mL
70% EtOH, student aliquots	6	50mL
TL Buffer, student aliquots	5	15mL

HB Buffer, student aliquots	5	15mL
Absolute ethanol, student aliquots	varies	15mL
BL Buffer, student aliquots	5	15mL
EQ Buffer	5	15mL
DNA Wash Buffer	5	15mL
Elution Buffer	5	15mL
Sudan IV	2	dropper bottle
Staining Solution Coomassie	1	1L
Destain Solution	1	1L
10x Running Buffer	1	1L
1x Running Buffer	1	1L

ROOM - A3160.2 - Bio-Tech Forensic Storage

Item Name *	Quantity	Unit Size
10X TBS	1	1L
1x TBS	1	1L
Transfer Buffer	1	1L
30% Glycerol	3	50mL
3x protein loading dye	1	15mL
20% EtOH	1	50mL
Sterile water	1	50mL
Ponceaus S	1	50mL
20mM Tris	1	50mL
Bleach	1	5.38L
Greiss Test 1 (Napthalylamine)	5	Dropper bottle
Starch solution, 1%	3	250mL
Hydrochloric acid, 6M	2	100mL
Hydochloric acid, 3M(?) solution	6	Dropper bottle
Sodium thiosulfate solution	2	50mL
Sodium Hypochlorite	6	25mL
Silver nitrate, 0.1M	5	Dropper bottle
Sodium polytungstate solution	1	100mL
Ethanol, 95% denatured solution	2	30mL
small tube of unknown purple solution	2	5mL
PrepIT-LP2: PT-L2P-5 Purifer reagent (for Oragene kit)	2	5mL
Oragene purifier OG-L2P-1.8	1	1.5mL
0.5X TAE	1	10L carboy
50x TAE buffer concentrate	1	4L
Orange G	2	50mL
Brilliant yellow + glycerol	1	50mL
Methyl green + glycerol	1	50mL
Malachite green + glycerol	1	50mL
Unknown blue stain solution	1	15mL
80% Ethylene glycol	1	50mL
Carbol fushin loading dye, 30% glycerol	1	50mL
Busic fuchsin loading dye + glycerol	1	50mL
Orange G loading dye	1	1mL
20% Copper Sulfate Solution		