

PROJECT MANUAL – VOLUME 3

Information Available

Issued for Tender

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Project No. 140023034

April 7, 2025

Document Responsibility and Project Directory

1.1 Document Responsibility

- .1 Refer to Project Manual, Section 00 01 10 - Table of Contents, for indication of document responsibility (DR). Abbreviations for entity responsible for document preparation are as follows:
 - .1 A - Denotes documents prepared by Architect.
 - .2 E - Denotes documents prepared by Electrical Engineer.
 - .3 M - Denotes documents prepared by Mechanical Engineer.
 - .4 O - Denotes documents prepared by Owner.
 - .5 S - Denotes documents prepared by Structural Engineer.
- .2 Professional seals if applied next to company names in the project directory (below) govern only those specification sections and schedules identified by the corresponding document responsibility (DR) abbreviation in Section 00 01 10.

1.2 Project Directory

- .1 Owner:

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Information Available for Review

1.1 Information Available for Review

- .1 The following documents are made available for review in Volume 3:
 - .1 Hazardous materials/designated substances report:
 - .1 "Reassessment of Asbestos-Containing Materials 2023, Scarborough and Rouge Hospital – General Site, 3050 Lawrence Avenue East, Toronto, Ontario, M1P 2V5", dated July 17, 2023, prepared by Safetech Environmental Ltd.
 - .2 Owner's guidelines and policies:
 - .1 Scarborough Health Network, Contractors Manual(General Conditions), dated April 2024.
 - .2 Scarborough Health Network, Planned Shutdown Policy, dated May 2, 2022.
 - .3 Scarborough Health Network, Photo ID Badge/Access Card, Building and Parking Access Request Form, version 20, dated 2020-11-18.
 - .4 Scarborough Health Network, Construction and Renovation Work Permit application.
- .2 The accuracy of the information contained in the above listed documents has not been independently verified by the *Consultant*.

END OF SECTION

REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS 2023

**Scarborough and Rouge Hospital – General Site
3050 Lawrence Avenue East
Toronto, Ontario
M1P 2V5**

Prepared for:

**Mr. Leon Ramkumar
Facility Services Supervisor**

**Scarborough and Rouge Hospital – General Site
3050 Lawrence Avenue East
Toronto, Ontario
M1P 2V5**

Performed by:

Safetech Environmental Limited

A handwritten signature in black ink, appearing to read 'A Fiume', written over a horizontal line.

**Anthony J. Fiume, BA, CAPM
Project Coordinator**

Reviewed by:

A handwritten signature in black ink, appearing to read 'Peter Milosh', written over a horizontal line.

**Peter Milosh, BES, AMRT
Project Manager**

Safetech Project Number: 1-S1230015

**Date of Site Work: June 6 and 7, 2023
Date of Issue: July 17, 2023**

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Appendix B – Site Plans

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Appendix D – Historical Bulk Sampling Records

EXECUTIVE SUMMARY

Safetech Environmental Limited was retained by Scarborough and Rouge Hospital – General Site to conduct a reassessment of previously identified asbestos-containing materials and asbestos database update for the facility located at 3050 Lawrence Avenue East, Toronto, Ontario. The original asbestos survey was conducted in 2009 and since that time numerous abatement projects and project specific investigations that included additional asbestos bulk sampling have been conducted. All of this information has been included in this reassessment and update.

The objective of this reassessment was to determine whether the conditions of previously identified friable and non-friable asbestos-containing materials have changed including condition, accessibility and action ratings as well as to update the existing asbestos database to reflect current conditions. This assessment meets the requirements of Section 8 of Ontario Regulation 278/05 "Regulation Respecting Asbestos on Construction Project and in Building Repair Operations". Results of the survey are summarized below:

- **Friable Asbestos-Containing Materials (ACM)** - friable asbestos-containing materials are present within the facility in the form of sprayed fireproofing, sprayed fireproofing debris, mechanical system insulation and mechanical system insulation debris. For renovation and/or demolition projects, removal of asbestos-containing materials must be conducted in accordance with Ontario Regulation 278/05, *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations* - made under the Occupational Health and Safety Act. Asbestos-containing waste must be handled and disposed of according to Ministry of Environment, Regulation 347 for disposal of hazardous waste.

- **Non-Friable Asbestos-Containing Materials (ACM)** - non-friable asbestos-containing materials are present within the facility in the form of vinyl asbestos floor tiles and transite board. For renovation and/or demolition projects, removal of asbestos-containing materials must be conducted in accordance with Ontario Regulation 278/05, *Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations* - made under the Occupational Health and Safety Act. Asbestos-containing waste must be handled and disposed of according to Ministry of Environment, Regulation 347 for disposal of hazardous waste.
- **Asbestos Management Plan (AMP)** - since the last reassessment of asbestos-containing materials and asbestos database update; numerous activities have been conducted at SHN General. These included asbestos abatement projects, project specific asbestos assessment investigations and the collection/analysis of asbestos bulk samples. All of this information has been incorporated in the 2018 reassessment and the asbestos database have been updated to reflect current conditions.

This executive summary must be reviewed with the main survey report.

Safetech Environmental Limited



Anthony J. Fiume, BA, CAPM
Project Coordinator

July 17, 2023

Scarborough Health Network
2867 Ellesmere Road
Scarborough, Ontario
M1E 4B9

Attn: Mr. Leon Ramkumar
Manager, Plant and Facilities Operations

**Re: Reassessment of Asbestos – Containing Materials
Scarborough and Rouge Hospital – General Site
3050 Lawrence Avenue East, Toronto, Ontario**

1.0 BACKGROUND

Safetech Environmental Limited (Safetech) performed a reassessment of previously identified asbestos-containing materials (ACM) at Scarborough and Rouge Hospital (General Site) located at 3050 Lawrence Avenue East, Toronto, Ontario. Annual updates are a mandatory requirement of Ontario Regulation 278/05, “*Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations*” (O.Reg. 278/05 s.8).

The objective of our assessment was to determine the presence and condition of previously identified (ACM) within the facility. Accessible patient care areas, hallways, mechanical rooms, office suites, lobbies, retail areas, stairwells, common areas, and corridors were inspected as indicated on provided drawings. Not all areas were accessible during our reassessment as they were occupied at the time of site visits or access could not be provided.

This report summarizes results of our on-site assessment, laboratory analytical results from previous assessments between circa 2020-2023 and recommendations based on our findings.

2.0 HISTORY OF ASBESTOS

Asbestos-containing materials were used widely throughout Canada and other countries of the world during the 1900’s. This naturally occurring mineral was used in building construction for its thermal properties, high tensile strength, low electrical conductivity and its ability to withstand chemical breakdown. This fibrous material when inhaled over a long period of time can lead to adverse health effects such as asbestosis, lung cancer and mesothelioma. Building materials with bound asbestos or asbestos that is in good condition pose little danger of releasing airborne fibres unless physically damaged (drilled, cut, sawn, ground or sanded).

An important factor when assessing the potential hazard associated with asbestos is its degree of friability. Ontario Regulation 278/05, “*Designated Substance – Asbestos on Construction Projects and in Buildings and Repair Operations*” as made under the Occupational Health & Safety Act defines friability as “material that when dry can be crumbled, pulverized or powdered by hand pressure and includes such material that is crumbled pulverized or powdered”.

Friable asbestos-containing materials have been banned from use in Ontario. The most common types of friable ACM include sprayed fireproofing and sprayed thermal insulation (ceased use circa 1973), sprayed acoustic texture coat finishes - stucco (ceased use circa 1982), and mechanical thermal system insulation (TSI) (ceased use circa 1981).

Non-friable ACM include vinyl floor tile - VAT (ceased use circa 1982), vinyl sheet flooring – VSF (ceased use circa 1982), floor adhesives (ceased use circa 1992), acoustic ceiling tile (ceased use circa 1982), plaster finishes (ceased use circa 1960’s), drywall joint compound (ceased use circa 1980), roofing materials (ceased use circa 1991), and asbestos cement sheeting, piping, and gasketing material that may still be in use today.

3.0 REGULATIONS FOR ASBESTOS IN BUILDING MATERIALS

Management of asbestos-containing materials in buildings is regulated under O.Reg. 278/05 made under the Occupational Health and Safety Act. Under this regulation an asbestos-containing material is defined as a material that contains 0.5 percent or more asbestos by dry weight. If materials are determined to be asbestos-containing this regulation requires that specific procedures are followed for ongoing management of these materials in buildings. This includes requirements such as – but not limited to – preparing and maintaining a record of the location and type (i.e. friable and non-friable) of asbestos-containing materials within the facility. This record is also required to be updated at least once in each 12 month period.

Specific procedures are also required to be followed during renovation or demolition projects that have the potential to disturb asbestos-containing materials. Specific procedures followed (i.e. Type 1, Type 2 or Type 3 operations) depends primarily on the type of asbestos present, the friability of the material, and quantity of material present.

For determining whether a material is considered asbestos-containing O.Reg. 278/05 outlines specific requirements for the collection of bulk samples of homogenous building materials. This includes the collection of a minimum number of samples for thermal system insulation, surfacing material and miscellaneous materials. In order for a building material to be deemed asbestos-containing only one of the samples analyzed within the sample set needs to contain 0.5% percent or more asbestos by dry weight. Therefore, if one sample in a sample set comes back positive the entire area of homogeneous material would then be deemed to be asbestos-containing. Table 1 outlines these bulk sample requirements.

TABLE 1
Ontario Regulation 278/05 Bulk Sample Requirements

Item	Type of Material	Size of Area of Homogenous Material	Minimum Number of Bulk Material Samples to be Collected
1	Surfacing material including without limitation material that is applied to surfaces by spraying, trowelling or otherwise, such as acoustical plaster on ceilings and fireproofing materials on structural members	<90m ²	3
		>90m ² to <450m ²	5
		>450m ²	7
2	Thermal system insulation, except as described in item 3	Any Size	3
3	Thermal Insulation Patch	< 2 linear metres or 0.5m ²	1
4	Other Material	Any Size	3

Management of asbestos waste is governed by Regulation 347, General Waste Management, made under the Environmental Protection Act. Section 17 of this regulation sets out requirements for proper handling, transportation and disposal of asbestos waste to prevent it from becoming airborne.

4.0 METHODOLOGY

4.1 Accessible Areas

Destructive testing including that of fire door cores and roofing felts was not performed during this investigation. Locations of identified ACM have been detailed in this report where access was readily available. Inaccessible areas such as above solid drywall/plaster ceilings, within walls, enclosed mechanical shafts, enclosed bulkheads and pipe chases were not investigated. However, details regarding the possible presence of ACM were provided on a case by case basis.

4.2 Boilers and Other Mechanical Equipment

Boilers, vessels, kilns, sterilizers, chillers, tanks and other mechanical systems were not disassembled or demolished to determine the presence of asbestos within refractory brick, gaskets and other internal liners. Boilers were often constructed with asbestos insulations between the refractory brick and outer steel layer. Any work that will involve the demolition or replacement of these systems should be further investigated using destructive testing techniques prior to the commencement of such projects.

4.3 Non-Friable Materials

Some non-friable materials were not bulk sampled for asbestos content. For example, Transite pipe cannot be tested without compromising the integrity of the active pipe. Conclusions and recommendations regarding the presence of asbestos within identified non-friable materials were based on the past experience of the investigator.

4.4 General Note Regarding Investigation

Documents reviewed to aid in the assessment included:

- *“Asbestos Reassessment Report, The Scarborough Hospital, 3050 Lawrence Avenue East, Scarborough, Ontario”* dated January 8, 2019, Pinchin File: 231188.

Please be advised that Safetech has made every effort to investigate all areas within the building where ACM have been identified. However, in some cases, ACM not identified on floor plans, room-by-room sheets, and/or architectural drawings may not have been included. Safetech should be contacted if this is determined to ensure that the survey is complete. In addition, if renovations or demolition is contemplated, a thorough reassessment must be conducted with destructive testing to ensure all ACM's are identified. The reassessment should be performed prior to the commencement of construction activity.

5.0 ASSESSMENT OF ASBESTOS-CONTAINING MATERIALS

5.1 Accessibility Rating

Accessibility, Condition and Action (Priority) ratings for individual items, or defined areas were developed by Safetech to determine remedial action plans specific to the facility's needs. The rating criteria for each of these items is further detailed below.

Accessibility has been assessed as: (A) Accessible to all non-maintenance occupants of the building; (B) Accessible to maintenance staff without a ladder; (C) Accessible to maintenance staff with a ladder and exposed to view without moving a building component; (D) Accessible to maintenance staff with a ladder and concealed from view due to a building component; (E) Not accessible without demolition or removal of fixed building components or building systems.

5.2 Condition Rating

I. Sprayed Applied Fireproofing, Insulation and Texture Finishes

To evaluate the condition of asbestos-containing surfacing materials such as fireproofing, non-mechanical thermal insulation, and texture finishes the following criteria was applied:

Good condition would indicate the following:

Surface of material shows no significant signs of damage, deterioration, or delamination. Up to 1 percent visible damage to surface is allowed. Evaluation of sprayed materials requires the surveyor to be familiar with the typical irregular surface texture as installed. GOOD condition includes unencapsulated or unpainted fireproofing or texture finishes, where no delamination or damage is observed, and encapsulated fireproofing or texture finishes where the encapsulation has been applied after the damage or fallout occurred.

Fair condition rating is not utilized in the evaluation of the fireproofing, non-mechanical insulation, or texture coat finishes. These materials are only classified as in Good or Poor condition.

Poor condition would indicate the following:

Sprayed materials show signs of damage, delamination, or deterioration. More than 1% damage to surface of ACM spray.

In observation areas where damage exists in isolated locations, both GOOD and POOR condition may be applicable.

II. Mechanical Insulation

The evaluation of the condition of mechanical insulation (on boilers, breeching, ductwork, piping, tanks, equipment, etc.) utilizes the following criteria:

Good condition would indicate the following:

Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.

Fair condition would indicate the following:

Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that had never been jacketed. Insulation is exposed but not showing surface disintegration. The extent of missing insulation ranges from minor to none. Damage can be repaired.

Poor condition would indicate the following:

Original insulation jacket is missing, damaged, deteriorated, or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired.

III. Non-friable and Potential Friable Materials

The condition of non-friable or potentially friable ACM, such as plaster finishes, drywall compound, ceiling tiles, asbestos cement products, vinyl asbestos tile and asbestos

paper backed vinyl sheet flooring, which have the potential to become friable when handled is evaluated as follows:

Good condition would indicate the following:

No significant damage. Material may be cracked or broken but is stable and not likely to become friable upon casual contact. If there is no friable DEBRIS present, the condition is rated as GOOD.

Fair condition rating is not utilized in the evaluation of the condition of non-friable and potentially friable materials. These materials are only classified as in Good or Poor condition.

Poor condition would indicate the following:

Material is severely damaged. Loose DEBRIS is present or binder has disintegrated to the point where the material has become friable.

IV. Evaluation of Asbestos-Containing Debris

The presence of fallen debris must be noted separately from the presumed asbestos-containing source material. Debris is always considered to be in POOR condition.

5.3 Quantity

For each CONDITION, the approximate QUANTITY and the units of measure related to the QUANTITY (i.e.: linear feet (LF), square feet (SF) or each (EACH) as appropriate to the ITEM) has been recorded where applicable.

5.4 Action Rating

Recommended ACTION for compliance and for management of the ACM has been provided for each CONDITION and for each COMPONENT. Recommendations have been classified under the following 8 ACTIONS:

Action 1:	Action dealing with the immediate cleanup of fallen ACM likely to be disturbed.
Action 2:	Action dealing with the need to use Type 2 asbestos procedures to enter an area (other than a ceiling space).
Action 3:	Action dealing with performing asbestos removal for compliance with regulations.
Action 4:	Action dealing with Type 2 asbestos procedures for ceiling entry where friable ACM debris is present on the top side of a ceiling system.
Action 5:	Action dealing with the removal of asbestos that goes beyond compliance requirements but simplifies the asbestos management.
Action 6:	Action dealing with the repair of asbestos.
Action 7:	Action dealing with ACM surveillance requirements of the regulation.
Action 8:	Action for dealing with material that may contain asbestos but was not conclusively identified in the survey.

6.0 RESULTS

6.1 Sprayed Applied Fireproofing and Asbestos-Contaminated HVAC Components

Asbestos-containing sprayed fireproofing containing chrysotile asbestos has been applied to structural steel within the Ground Floor Cafeteria (G.128), Storage (G.110), Office (G.111), Safe Room (G.111a), Volunteer Services (G.112), STO (G.112a), Office (G.113), Reception (G.114), NFS Staff Education Room (G.124) and Storage (G.124a), NFS Secretary and Storage (G.125 & G.125a), Marek Hospitality (G.126 and G.127). Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing sprayed fireproofing.

As required by O.Reg. 278/05, cleaning or removal of ventilation components including rigid ducting (excluding filters) in the buildings with asbestos-containing sprayed fireproofing must be conducted following Type 3 procedures. For buildings where asbestos-containing sprayed fireproofing has been identified, replacement of filters within the ventilation system (air handling units and fan coils) must be conducted as a Type 2 operation as per the requirements of O.Reg. 278/05.

6.3 Thermal Systems Insulation (TSI)

Parging Cement on Mechanical Pipe Fittings (elbows, valves, tees, hangers etc.)

Friable asbestos-containing parging cement containing chrysotile asbestos is present on mechanical pipe fittings (elbows, valves, tees, hangers etc.) in various locations throughout the 1956 phase of construction in the building. This material may be concealed above solid ceilings, within wall cavities, pipe chases, bulkheads or other inaccessible spaces within the 1956 phase of construction. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing parging cement on mechanical pipe fittings.

White Preformed Block Insulation

Friable white preformed block insulation (Magnesia Block) containing chrysotile and amosite asbestos is present on straight sections of steam and hot water heating system pipes throughout the 1956 phase of construction in the building. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing white preformed block insulation (Magnesia Block).

White Corrugated Paper Insulation

Friable white corrugated paper insulation (Aircell) containing chrysotile asbestos is present on straight sections of hot water heating system mechanical pipes throughout the

1956 phase of construction in the building. This material may be concealed above solid ceilings, within wall cavities, pipe chases, bulkheads or other inaccessible spaces within the 1956 phase of construction. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing white corrugated paper insulation (Aircell).

Sweat-Wrap Insulation

Friable sweat-wrap insulation containing chrysotile asbestos in the tar paper layer is present on straight sections of domestic water pipes throughout the 1956 phase of construction in the building. This material may be concealed above solid ceilings, within wall cavities, pipe chases, bulkheads or other inaccessible spaces within the 1956 phase of construction. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing sweat-wrap insulation.

Duct Insulation

Friable paring cement, containing chrysotile asbestos is present beneath fibreglass and canvas jacketing at edges, seams and pins on ductwork in Mechanical Room 12A (B.468) and Mechanical Room 19. Ductwork within the ceiling plenum of the First Floor Corridor (1.280) and Office Spaces (1.284, 1.279, 1.279A, 1.279F) is wrapped with a tar-impregnated paper containing chrysotile asbestos. Minor damage was observed to the corner of the duct in the First Floor Corridor (1.280). Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

Mechanical Equipment Insulation

Friable paring cement containing chrysotile asbestos is present on the ends of two (2) hot water tanks in Mechanical Room #1. This material is jacketed in canvas and is in good condition. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

Please note that friable asbestos-containing thermal insulation may be present beneath metal jacketing associated with the four (4) boiler units in Mechanical Room #1.

Firestopping

Firestopping material present at pipe and conduit penetrations throughout the Tower Wing Penthouse Mechanical Room is assumed to be asbestos-containing due to the age of construction and lack of bulk sample historical records.

6.4 Architectural Finishes

6.4.1 *Sprayed Textured/Stucco Finishes*

Texture finish (containing chrysotile asbestos) was observed to be present on drywall walls and ceilings in the Central Scheduling Office (4.241) and NFS Storage Room

(G.307). This material was observed to be in Good condition at the time of the assessment. Please refer to Appendix C for exact locations and condition and action ratings. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

6.4.2 Plaster Finishes

Plaster observed throughout the facility has previously been sampled and bulk sample analysis confirmed this material is not asbestos-containing. Refer to referenced Pinchin report for additional details of bulk sample results.

6.5 Drywall Joint Compound

Drywall joint compound associated with drywall finishes observed throughout the facility has previously been sampled and bulk sample analysis confirmed this material is not asbestos-containing. Refer to referenced Pinchin report for additional details of bulk sample results.

6.6 Ceiling Tiles

Non-friable asbestos-containing 2'x4' white pinhole swirl pattern lay-in acoustic ceiling tiles are present in the Cafeteria Corridor (G.123), Corridor (2.136), Third Floor Office (3.107) and Ninth Floor Rooms (9.111, 9.113, 9.114, 9.115, 9.124 and 9.125). This material was observed to be in Good condition at the time of the assessment. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

2'x4' white random pinhole and fleck lay-in acoustic ceiling tiles and 2'x2' white textured lay-in ceiling tiles throughout the facility have previously been sampled and were found not to be asbestos-containing. Other lay-in acoustic ceiling tiles throughout the facility were observed to have date stamps indicating a manufacturing date after 1986 and are therefore considered not to be asbestos-containing based on the known end use dates for asbestos in acoustic ceiling tiles.

6.7 Manufactured Products

6.7.1 Vinyl Floor Tiles & Mastic

Various patterns of non-friable asbestos-containing vinyl floor tiles installed as part of original construction were identified throughout the facility in the Crockford Wing and Tower Wing. Asbestos-containing vinyl floor tiles were confirmed to be present in Ground Floor Rooms (G.701, G.725, G.726, G.727, G.728 and G.729), Anesthesiology Physician On-Call Room (3.111), 5th Floor Rooms (5.104, 5.106, 5.108, 5.109, 5.112, 5.113 and 5.114) and 10th Floor Rooms (10.114, 10.115, 10.116, 10.117, 10.118 and 10.119) and Staircase V Floors 1-4. Asbestos-containing vinyl floor tiles in these locations were observed to be in Good condition at the time of the assessment. Mastic associated with

these vinyl floor tiles has not been sampled and is assumed to be asbestos-containing. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

Please note that asbestos-containing vinyl floor tiles previously identified in Hemodialysis Zone A (G.710) and Examination Room 2 (5.105) were not observed at the time of the assessment.

Asbestos-containing vinyl floor tile and mastic is assumed to be present in various other locations throughout the facility with the exception of the West Wing which was construction in 2009.

6.7.2 Vinyl Sheet Flooring

Friable asbestos-containing beige and grey mosaic pattern vinyl sheet flooring is present within the I.S. Device Sign In / Out Room (G.103). This material was noted to be in Good condition at the time of the assessment. Please refer to Appendix C, Summary of ACM Occurrences for listing of asbestos-containing duct insulation.

6.7.3 Asbestos Cement Products

Non-friable asbestos-cement pipe was previously identified in the Parking Garage as rain water leader piping. However; this material was not observed during our assessment.

Rain water leader piping in the Parking Garage was observed to consist of newer polyvinylchloride (PVC) piping.

6.7.4 Other Miscellaneous Manufactured Products

No other miscellaneous manufactured products were noted within the facility.

7.0 CONCLUSIONS & RECOMMENDATIONS

Removal or disturbance of identified asbestos-containing materials must be conducted in accordance with O.Reg. 278/05. Asbestos containing materials in Poor condition must be removed and/or repaired immediately following applicable asbestos abatement procedures. Asbestos-containing materials in Good condition can remain in place until major system upgrading, maintenance or demolition which could result in disturbance of this material.

Sprayed Fireproofing: Sprayed fireproofing is considered to be a friable ACM. As per O. Reg. 278/05, removal or disturbance of 1.0 m² or less of friable ACM is classified as a Type 2 operation. If more than 1.0 m² of friable ACM is to be removed or disturbed, then work should be conducted following Type 3 operations. Given the presence of asbestos-containing sprayed fireproofing, it is cautioned that this material or related debris may be concealed on the surface of false ceilings. As such, access above a false ceiling where asbestos-containing sprayed fireproofing is present is classified as a Type 2 operation (full enclosure method for access). Similarly, asbestos-containing sprayed fireproofing debris may be present within wall cavities. Therefore, access within these spaces is recommended to be conducted following Type 2 operations as a precautionary measure. As required by O.Reg. 278/05, cleaning or removal of ventilation components including rigid ducting (excluding filters) in the buildings with asbestos-containing sprayed fireproofing must be conducted following Type 3 procedures. For buildings where asbestos-containing sprayed fireproofing has been identified, replacement of filters within the ventilation system (air handling units and fan coils) must be conducted as a Type 2 operation as per the requirements of O.Reg. 278/05.

Thermal System Insulation (TSI): TSI is considered to be a friable ACM. As per O. Reg. 278/05, removal or disturbance of 1 square metre or less of friable ACM is classified as a Type 2 operation. If more than 1 square metre of friable ACM is to be removed or disturbed then work should be conducted following Type 3 operations; unless the material is removed using a glove bag, in which case Type 2 operations are applicable.

Sprayed Texture/Stucco Finishes: Sprayed texture/stucco finishes identified to be asbestos-containing is recommended to be treated as friable ACM since disturbance of this material typically results in significant degradation and subsequent dust/debris generation that cannot be adequately controlled through wetting. Therefore, removal or disturbance of 1 square metre or less of sprayed texture/stucco finishes should be conducted following Type 2 operations. If more than 1 square metre of sprayed texture/stucco finishes is to be removed or disturbed then work should be conducted following Type 3 operations.

Ceiling Tiles: In accordance with O. Reg. 278/05, removal of 7.5 square metres or more of asbestos-containing ceiling tiles (i.e. ten or more 2'x4' tiles) should be conducted following Type 2 operations. However, care should be taken when removing the ceiling tiles to ensure they are removed without being broken, cut, abraded or otherwise handled in a manner that can cause an excessive release of ceiling tile debris. Otherwise, Type 3

operations are recommended to be followed. If less than 7.5 square metres of asbestos-containing ceiling tiles are removed and they can be removed in the manner indicated above, removal can be conducted following Type 1 operations.

Vinyl Floor Tiles and Mastic: Vinyl floor tile and mastic is considered to be a non-friable ACM. As per O. Reg. 278/05, removal of non-friable ACM can be conducted following Type 1 operations; as long as the material can be removed without being broken, cut, drilled or otherwise similarly disturbed. If the material cannot be removed without it breaking or being similarly disturbed then the work should be conducted using non-powered hand tools and the material should be wetted to control the spread of dust. If the material cannot be wetted or if power tools attached to dust-collecting devices equipped with HEPA (high efficiency particulate aerosol) filters are used during removal or disturbance, then work should be performed following Type 2 operations. If non-friable materials are removed or disturbed using power tools that are not attached to dust-collecting devices that are equipped with HEPA filters then work should be conducted following Type 3 operations.

Vinyl Sheet Flooring: Vinyl sheet flooring identified to be asbestos-containing is recommended to be treated as friable ACM since disturbance of this material typically results in significant degradation and subsequent dust/debris generation that cannot be adequately controlled through wetting. Therefore, removal or disturbance of 1 square metre or less of vinyl sheet flooring should be conducted following Type 2 operations. If more than 1 square metre of vinyl sheet flooring is to be removed or disturbed then work should be conducted following Type 3 operations.

7.1 General Recommendations

Asbestos removal work should be performed by a competent and qualified asbestos abatement contractor. It is recommended that all asbestos related work be subjected to inspection and air monitoring to ensure building occupants are safe from exposure.

Asbestos abatement work must be performed as outlined in Ontario Regulation 278/05. Asbestos-containing waste must be handled and disposed of according to Regulation 347, "General – Waste Management".

Regulation 278/05 requires regular inspections, at least annually, of all areas identified as having asbestos-containing materials. Any damaged or exposed items noted should be repaired or removed under the Operations and Maintenance program of the building's Asbestos Management Plan.

8.0 LIMITATIONS

The information and recommendations detailed in this report were carried out by trained professional and technical staff in accordance with generally accepted environmental and industrial hygiene work practices and procedures. Recommendations provided in this report have been generated in accordance with current regulations, accepted industry guidelines and practices. These regulations, guidelines and practices are considered acceptable as of the date of this report.

In preparation of this report, Safetech Environmental Limited (Safetech) relied on information including testing services provided by independent laboratories. Except as expressly set out in this report, Safetech has not made any independent verification of this information provided by independent entities. The collection of samples at the location noted was consistent with the scope of work agreed-upon with the person or entity to whom this report is addressed and the information obtained concerning prior site investigations. As conditions between samples may vary, the potential remains for the presence of unknown additional contaminants for which there were no known indicators. Conclusions are based on site conditions at the time of inspection and can only be extrapolated to an undefined limited area around inspected locations. The extent of the limited area depends on building construction and conditions. Safetech cannot warrant against undiscovered environmental liabilities. If any information becomes available that differs from the findings in this report, we request that we be notified immediately to reassess the conclusions provided herein.

This report has been prepared for the sole use of the person or entity to who it is addressed. No other person or entity is entitled to use or rely upon this report without the express written consent of Safetech Environmental Limited and the person or entity to who it is addressed. Any use that a third party makes of this report, or any reliance based on conclusions and recommendations made, are the responsibility of such third parties. Safetech accepts no responsibility for damages suffered by third parties as a result of actions based on this report.

Appendix A

Laboratory Certificates of Analysis (2020-2023)

Laboratory Analysis Report

To:

Peter Milosh
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A68949
Job/Project Name: SHN Rm.1.412-1.415
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: May 17/21 **Date Analyzed:** May 21/21
Analyst: Kathy Jin
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 9
Job No: 1-3210379
Number of Samples: 3
Date Reported: May 21/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
01A	A68949-1 ⁵	9"x9" green vinyl tile / Room 1.413	3 Phases: a) Green, vinyl flooring b) Black, mastic c) Grey, cementitious material	ND ND ND			100
01B	A68949-2 ⁵	9"x9" green vinyl tile / Room 1.413	3 Phases: a) Green, vinyl flooring b) Black, mastic c) Grey, cementitious material	ND ND ND			100
01C	A68949-3 ⁵	9"x9" green vinyl tile / Room 1.413	3 Phases: a) Green, vinyl flooring b) Black, mastic c) Grey, cementitious material	ND ND ND			100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Phases a) and b) are analyzed by gravimetric method.

Laboratory Analysis Report

To:

Peter Milosh
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A69690
Job/Project Name: 3050 Lawrence Ave. E / Rm. 1.432
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Jun 11/21 **Date Analyzed:** Jun 11/21
Analyst: Jayoda Perera, *Analyst*
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 7
Job No: 1-3210463
Number of Samples: 9
Date Reported: Jun 11/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
01A	A69690-1	9x9 green vinyl tile / Room 1.432	Green, vinyl flooring	ND			
01B	A69690-2	9x9 green vinyl tile / Room 1.432	Green, vinyl flooring	ND			
01C	A69690-3	9x9 green vinyl tile / Room 1.432	Green, vinyl flooring	ND			
02A	A69690-4	9x9 Beige vinyl tile	Beige, vinyl floor tile	Chrysotile	0.75		
02B	A69690-5	9x9 Beige vinyl tile	NA	NA			
02C	A69690-6	9x9 Beige vinyl tile	NA	NA			
03A	A69690-7	Black mastic	Black, mastic	ND			
03B	A69690-8	Black mastic	Black, mastic	ND			
03C	A69690-9	Black mastic	Black, mastic	ND			

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Samples analyzed by gravimetric method.

Laboratory Analysis Report

To:

Peter Milosh
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A69984
Job/Project Name: General Site DSS
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Jun 22/21 **Date Analyzed:** Jun 25/21
Analyst: Kathy Jin
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 16
Job No: 1-3210474
Number of Samples: 18
Date Reported: Jun 25/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
01A	A69984-1	Plaster / office 1.250	2 Phases: a) White, plaster b) Light grey, plaster	ND			100
01B	A69984-2 ⁵	Plaster / north corridor	2 Phases: a) White, plaster b) Light grey, plaster	ND			100
01C	A69984-3 ⁵	Plaster / pharmacy 1.249	2 Phases: a) White, plaster b) Light grey, plaster	ND			100
02A	A69984-4	2'x4' random pinholes acoustic ceiling tiles / north corridor	Grey, ceiling tile	ND		75	25
02B	A69984-5	2'x4' random pinholes acoustic ceiling tiles / office 1.252	Grey, ceiling tile	ND		75	25
02C	A69984-6	2'x4' random pinholes acoustic ceiling tiles / pharmacy 1.249	Grey, ceiling tile	ND		75	25
03A	A69984-7	Cellulose pipe insulation / north corridor	2 Phases: a) Grey, layered paper b) Black, fibrous material with tar	Chrysotile Chrysotile	<0.5 60	90 20	10 20
03B	A69984-8	Cellulose pipe insulation / north corridor	NA	NA			
03C	A69984-9	Cellulose pipe insulation / north corridor	NA	NA			

EMC LAB REPORT NUMBER: A69984
Client's Job/Project Name/No.: 1-3210474
Analyst: Kathy Jin

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
04A	A69984-10	Parging cement / north corridor	Grey, parging cement	Chrysotile	60		40
04B	A69984-11	Parging cement / north corridor	NA	NA			
04C	A69984-12	Parging cement / north corridor	NA	NA			
05A	A69984-13	Fibrous insulation / main corridor	Grey, paper	Chrysotile	80	10	10
05B	A69984-14	Fibrous insulation / main corridor	NA	NA			
05C	A69984-15	Fibrous insulation / main corridor	NA	NA			
06A	A69984-16	Mortar / main corridor	Grey, cementitious material	ND			100
06B	A69984-17	Mortar / main corridor	Grey, cementitious material	ND			100
06C	A69984-18	Mortar / main corridor	Grey, cementitious material	ND			100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Phase b) is small in size.

Laboratory Analysis Report

To:

Kevin Bell
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A73329
Job/Project Name: 3050 Laurence Ave East
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Oct 8/21 **Date Analyzed:** Oct 12/21
Analyst: Kathy Jin
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 1
Job No: 3210786
Number of Samples: 3
Date Reported: Oct 12/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
01A	A73329-1	Pipe wrap insulation (joint)/ room 1.412	Grey, parging cement	Chrysotile	60		40
01B	A73329-2	Pipe wrap insulation (line)/ room 1.412	NA	NA			
01C	A73329-3	Pipe wrap insulation (line)/ room 1.412	NA	NA			

Note:

- Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
- The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
- This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
- The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.

Laboratory Analysis Report

To:

Kevin Bell
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A73330
Job/Project Name: 3050 Lawrance Ave East
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Oct 8/21 **Date Analyzed:** Oct 18/21
Analyst: Chengming Li
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 13
Job No: 3210787
Number of Samples: 9
Date Reported: Oct 18/21

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
01A	A73330-1	DJC (wall)/ room 1.243	White, joint compound	ND			100
01B	A73330-2	DJC (wall)/ room 1.243a	White and off white, joint compound	ND			100
01C	A73330-3	DJC (wall)/ room 1.244	White, joint compound	ND			100
02A	A73330-4	Plaster (wall)/ room 1.420	3 Phases: a) Off white, joint compound b) White, plaster c) Grey, plaster	ND ND ND			100 100 100
02B	A73330-5	Plaster (wall)/ room 1.420	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
02C	A73330-6	Plaster (wall)/ room 1.420	2 Phases: a) White, plaster b) Grey, plaster	ND ND			100 100
03A	A73330-7	Vinyl sheet flooring/ room 1.420	White, vinyl flooring	ND			100
03B	A73330-8	Vinyl sheet flooring/ room 1.420	White, vinyl flooring	ND			100
03C	A73330-9	Vinyl sheet flooring/ room 1.420	White, vinyl flooring	ND			100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency

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EMC Scientific Inc. is Accredited by NVLAP (NVLAP Code 201020-0) for Bulk Asbestos Analysis

EMC LAB REPORT NUMBER: A73330

Client's Job/Project Name/No.: 3210787

Analyst: Chengming Li

of the U.S. Government.

4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Phone/Fax: (289) 997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 552119232
Customer ID: 55SELI62
Customer PO: 1-5210359
Project ID:

Attn: Anthony Fiume
Safetech Environmental
3045 Southcreek Road
Unit 14
Mississauga, ON L4X 2X7
Phone: (905) 624-2722
Fax: (905) 624-4306
Collected: 11/24/2021
Received: 11/24/2021
Analyzed: 11/26/2021
Proj: 1-5210359 - 3050 Lawrence Avenue East, Scarborough, Ontario

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Client Sample ID: 1a-Tar Paper **Lab Sample ID:** 552119232-0001

Sample Description: Insulation on Water Drain Pipe - Clean Supply Room 2.401

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/26/2021	Black	70.0%	30.0%	None Detected	

Client Sample ID: 1a-Insulation **Lab Sample ID:** 552119232-0001A

Sample Description: Insulation on Water Drain Pipe - Clean Supply Room 2.401

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/26/2021	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 1b-Tar Paper **Lab Sample ID:** 552119232-0002

Sample Description: Insulation on Water Drain Pipe - Clean Supply Room 2.401

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/26/2021	Black	70.0%	30.0%	None Detected	

Client Sample ID: 1b-Insulation **Lab Sample ID:** 552119232-0002A

Sample Description: Insulation on Water Drain Pipe - Clean Supply Room 2.401

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/26/2021	Gray	85.0%	15.0%	None Detected	

Client Sample ID: 1c **Lab Sample ID:** 552119232-0003

Sample Description: Insulation on Water Drain Pipe - Clean Supply Room 2.401

TEST	Analyzed Date	Color	Non-Asbestos		Asbestos	Comment
			Fibrous	Non-Fibrous		
PLM	11/26/2021	Gray	90.0%	10.0%	None Detected	



EMSL Canada Inc.

2756 Slough Street Mississauga, ON L4T 1G3
Phone/Fax: (289) 997-4602 / (289) 997-4607
<http://www.EMSL.com> / torontolab@emsl.com

EMSL Canada Order 552119232
Customer ID: 55SELI62
Customer PO: 1-5210359
Project ID:

Test Report: Asbestos Analysis of Bulk Materials for Ontario Regulation 278/05 via EPA600/R-93/116 Method

Analyst(s):

Caroline Allen PLM (4)
Natalie D'Amico PLM (1)

Reviewed and approved by:

Matthew Davis or other approved signatory
or Other Approved Signatory

None Detected = <0.1%. EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Estimation of uncertainty available upon request. This report is a summary of multiple methods of analysis, fully compliant reports are available upon request. A combination of PLM and TEM analysis may be necessary to ensure consistently reliable detection of asbestos. This report must not be used to claim product endorsement by NVLAP of any agency or the U.S. Government.

Samples analyzed by EMSL Canada Inc. Mississauga, ON NVLAP Lab Code 200877-0

Initial report from: 11/26/2021 14:06:09

Laboratory Analysis Report

To:

Jeff Cheong
Safetech Environmental Ltd.
3045 Southcreek Road, Unit 14
Mississauga, Ontario
L4X 2X7

EMC LAB REPORT NUMBER: A82739
Job/Project Name: 3050 Lawrence Ave E
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Aug 15/22 **Date Analyzed:** Aug 15/22
Analyst: Chengming Li
Reviewed By: Malgorzata Sybydlo, *Laboratory Manager*

No. of Phases Analyzed: 6
Job No: 1-51220042
Number of Samples: 3
Date Reported: Aug 15/22

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)		
				Asbestos Fibres	Non-asbestos Fibres	Non-fibrous Material
01A	A82739-1	12x12 vft, white w/ black specs/ 3 rd floor/ surgery waiting area	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		100 100
01B	A82739-2	12x12 vft, white w/ black specs/ 3 rd floor/ surgery waiting area	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		100 100
01C	A82739-3	12x12 vft, white w/ black specs/ 3 rd floor/ surgery waiting area	2 Phases: a) White, vinyl floor tile b) Yellow, mastic	ND ND		100 100

Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Vinyl floor tiles may contain very fine asbestos fibres which the PLM method cannot detect. TEM analysis may be necessary to confirm the absence of asbestos.

Laboratory Analysis Report

To:

Luke Guldemeester
Safetech Environmental Ltd.
92 Caplan Avenue, Suite 125
Barrie, Ontario
L4N 9J2

EMC LAB REPORT NUMBER: A89884
Job/Project Name: Scarborough General Hospital
Analysis Method: Polarized Light Microscopy – EPA 600
Date Received: Mar 29/23 **Date Analyzed:** Apr 5/23
Analyst: Ameerah Ngai
Reviewed By: Malgorzata Sybydo

No. of Phases Analyzed: 61
Job No: 1-S1230031
Number of Samples: 33
Date Reported: Apr 5/23

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
VSF1A	A89884-1	3 rd Floor Dr's Lounge (Runner) -Flat Beige	2 Phases: a) Grey, vinyl flooring b) Yellow, mastic	ND			100
VSF1B	A89884-2	3 rd Floor Dr's Lounge (Runner) -Flat Beige	2 Phases: a) Grey, vinyl flooring b) Yellow, mastic	ND			100
VSF1C	A89884-3	3 rd Floor Dr's Lounge (Runner) -Flat Beige	Grey, vinyl flooring	ND			100
VSF2A	A89884-4	3 rd Floor Dr's Lounge – Bathroom -Beige w/Specks	2 Phases: a) Off white, vinyl sheet backing b) Colourless, mastic	ND		60	40
VSF2B	A89884-5	3 rd Floor Dr's Lounge – Bathroom -Beige w/Specks	2 Phases: a) Off white, vinyl sheet backing b) Colourless, mastic	ND		60	40
VSF2C	A89884-6	3 rd Floor Dr's Lounge – Bathroom -Beige w/Specks	Off white, vinyl sheet backing	ND		60	40
VSF6A	A89884-7	3 rd Floor Dr's Lounge – Bathroom Runner (Flat Brown)	3 Phases: a) Brown, vinyl flooring b) Off white, vinyl backing c) Yellow, mastic	ND		60	100
VSF6B	A89884-8	3 rd Floor Dr's Lounge – Bathroom Runner (Flat Brown)	3 Phases: a) Brown, vinyl flooring	ND			100

EMC LAB REPORT NUMBER: A89884
Client's Job/Project Name/No.: 1-S1230031
Analyst: Ameerah Ngai

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
			b) Off white, vinyl backing c) Yellow, mastic	ND ND		60	40 100
VSF6C	A89884-9	3 rd Floor Dr's Lounge – Bathroom Runner (Flat Brown)	3 Phases: a) Brown, vinyl flooring b) Off white, vinyl backing c) Yellow, mastic	ND ND ND		60	100 40 100
VSF3A	A89884-10	3 rd Floor Dr's Lounge – Flooring -Beige Granit Pattern	3 Phases: a) Beige, vinyl flooring b) Brown, cellulose backing c) Yellow, mastic	ND ND ND		10 90 1	90 10 99
VSF3B	A89884-11	3 rd Floor Dr's Lounge – Flooring -Beige Granit Pattern	3 Phases: a) Beige, vinyl flooring b) Brown, cellulose backing	ND ND		10 90	90 10
VSF3C	A89884-12	3 rd Floor Dr's Lounge – Flooring -Beige Granit Pattern	3 Phases: a) Beige, vinyl flooring b) Brown, cellulose backing	ND ND		10 90	90 10
VSF4A	A89884-13	Ground Floor Dr's Lounge (Runner) -Flat Brown	Grey, vinyl flooring	ND			100
VSF4B	A89884-14	Ground Floor Dr's Lounge (Runner) -Flat Brown	Grey, vinyl flooring	ND			100
VSF4C	A89884-15	Ground Floor Dr's Lounge (Runner) -Flat Brown	Grey, vinyl flooring	ND			100
VSF5A	A89884-16	Ground Floor Dr's Lounge – Flooring -Grey Granit Pattern	3 Phases: a) Off white, vinyl flooring b) Colourless, mastic c) Grey, cementitious material	ND ND ND		1	100 99 100
VSF5B	A89884-17	Ground Floor Dr's Lounge – Flooring	3 Phases:				

EMC LAB REPORT NUMBER: A89884
Client's Job/Project Name/No.: 1-S1230031
Analyst: Ameerah Ngai

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
		-Grey Granit Pattern	a) Off white, vinyl flooring b) Colourless, mastic c) Grey, cementitious material	ND		1	100
VSF5C	A89884-18	Ground Floor Dr's Lounge – Flooring -Grey Granit Pattern	3 Phases: a) Off white, vinyl flooring b) Colourless, mastic c) Grey, cementitious material	ND		1	100
M1A	A89884-19	Mastic associated with “VSF1”	Colourless, mastic	ND		3	97
M1B	A89884-20	Mastic associated with “VSF1”	Colourless, mastic	ND		3	97
M1C	A89884-21	Mastic associated with “VSF1”	Colourless, mastic	ND		3	97
PC1A	A89884-22	3 rd Floor Dr's Lounge Behind Drywall	3 Phases: a) White, texture coat b) White, plaster c) Light grey, plaster	ND		1	99
PC1B	A89884-23	3 rd Floor Dr's Lounge Behind Drywall	3 Phases: a) White, texture coat b) White, plaster c) Light grey, plaster	ND		1	99
PC1C	A89884-24	3 rd Floor Dr's Lounge Behind Drywall	3 Phases: a) White, texture coat b) White, plaster c) Light grey, plaster	ND		1	99
PC2A	A89884-25	Ground Floor Dr's Lounge False Wall	2 Phases: a) White, plaster b) Grey, plaster	ND		1	99

EMC LAB REPORT NUMBER: A89884
Client's Job/Project Name/No.: 1-S1230031
Analyst: Ameerah Ngai

Client's Sample ID	Lab Sample No.	Description/Location	Sample Appearance	SAMPLE COMPONENTS (%)			
				Asbestos Fibres		Non-asbestos Fibres	Non-fibrous Material
PC2B	A89884-26 ⁵	Ground Floor Dr's Lounge False Wall	White, plaster	ND		1	99
PC2C	A89884-27	Ground Floor Dr's Lounge False Wall	2 Phases: a) White, plaster b) Grey, plaster	ND ND		1	99 100
DJC1A	A89884-28	3 rd Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100
DJC1B	A89884-29	3 rd Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100
DJC1C	A89884-30	3 rd Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100
DJC2A	A89884-31	Ground Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100
DJC2B	A89884-32	Ground Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100
DJC3A	A89884-33	Ground Floor Dr's Lounge Drywall Joint Compound	White, joint compound	ND			100

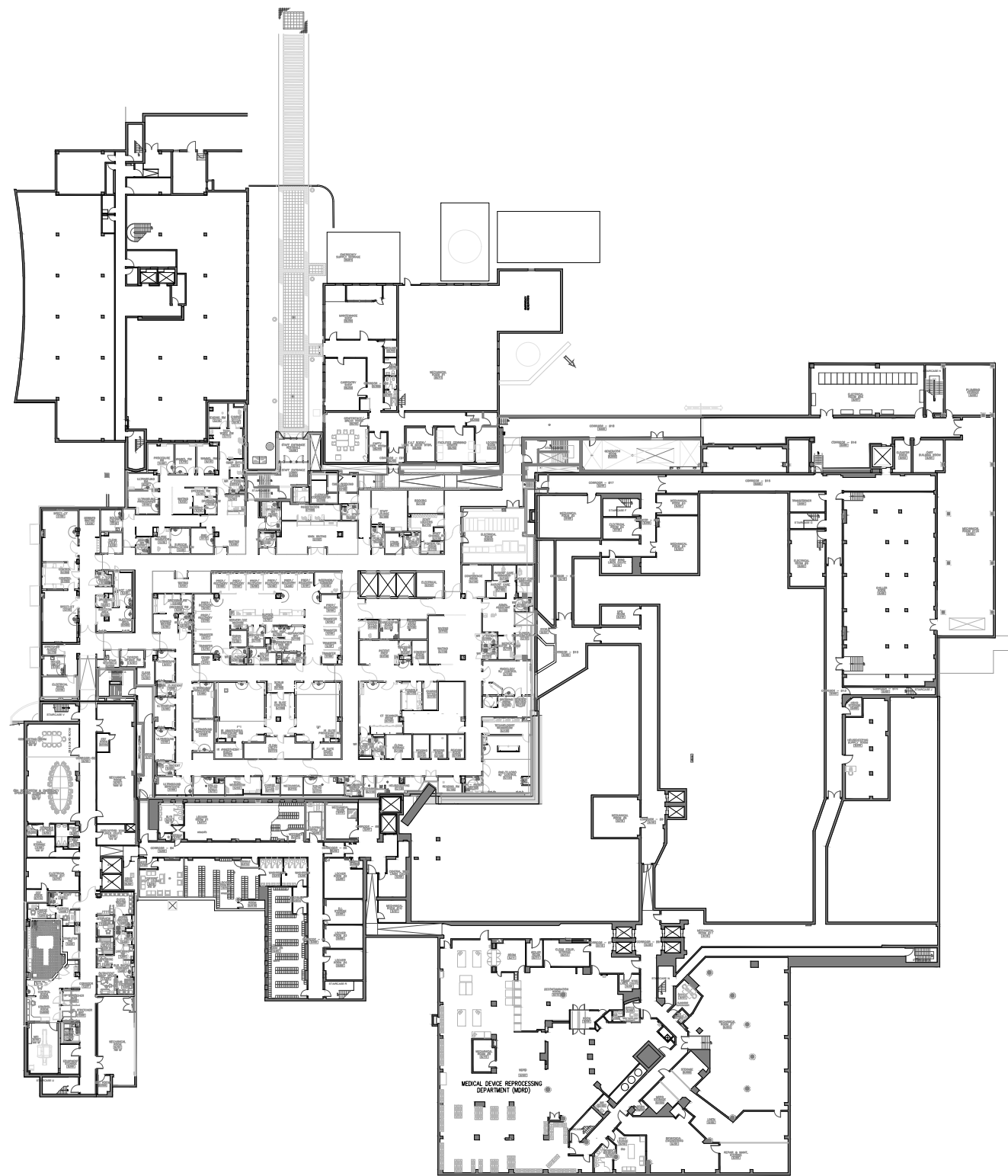
Note:

1. Bulk samples are analyzed using Polarized Light Microscopy (PLM) and dispersion staining techniques. The analytical procedures are in accordance with EPA 600/R-93/116 method.
2. The results are only related to the samples analyzed. **ND** = None Detected (no asbestos fibres were observed), **NA** = Not Analyzed (analysis stopped due to a previous positive result).
3. This report may not be reproduced, except in full without the written approval of EMC Scientific Inc. This report may not be used by the client to claim product endorsement by NVLAP or any other agency of the U.S. Government.
4. The Ontario Regulatory Threshold for asbestos is 0.5%. The limit of quantification (LOQ) is 0.5%.
5. Another phase is present but is too small to analyze.

Appendix B

Site Plans

LEGEND



1) THIS FLOOR PLAN MUST BE READ IN CONJUNCTION WITH THE REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS 2023 REPORT.
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4) ASBESTOS-CONTAINING PIPE INSULATION IS PRESENT THROUGHOUT THE SUBJECT BUILDING WITH EXCEPTION OF THE 2009 BUILDING ADDITION.

CONCOURSE

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

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DRAWING NO.

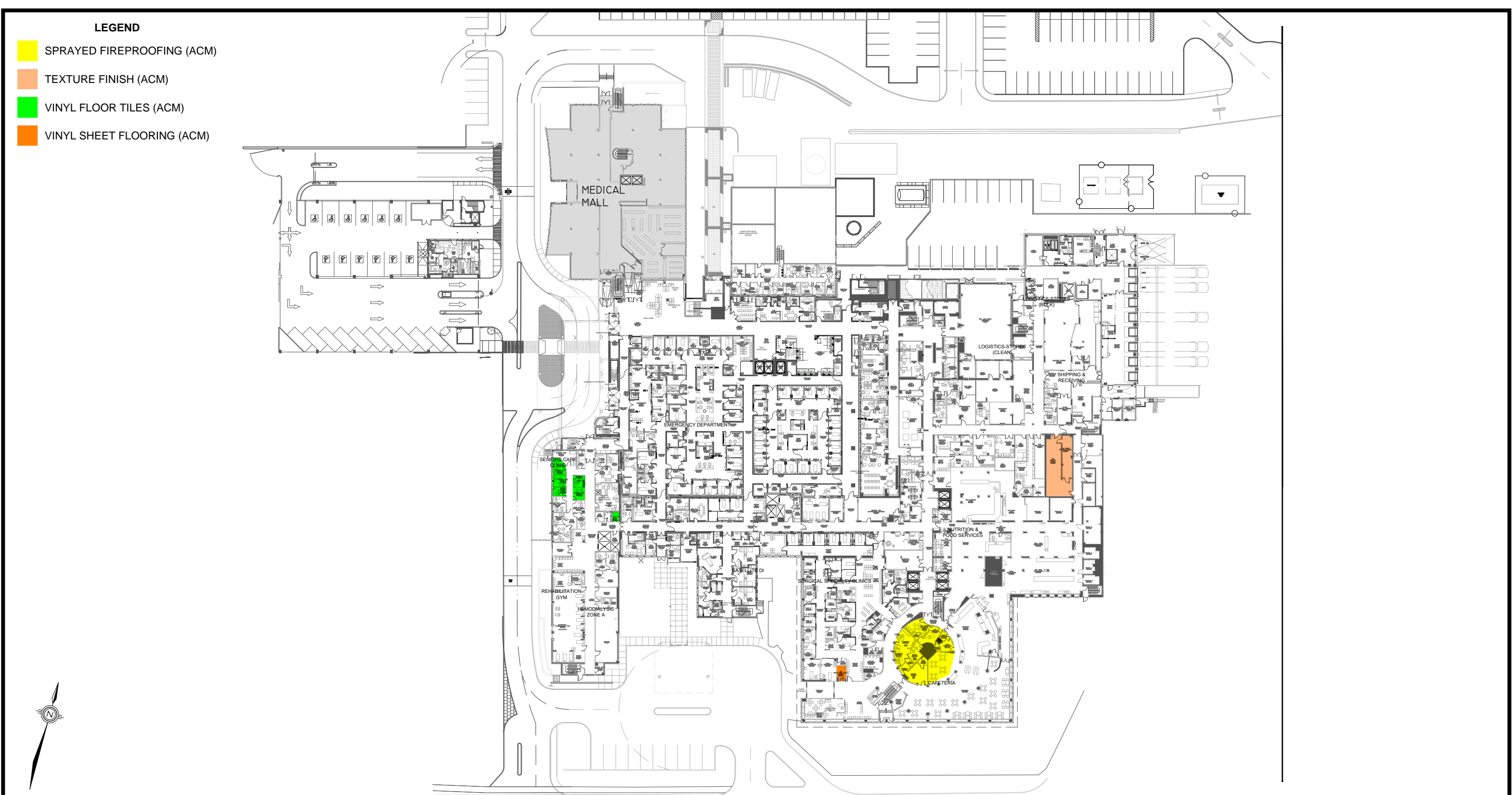
DS-1

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1-S1230015

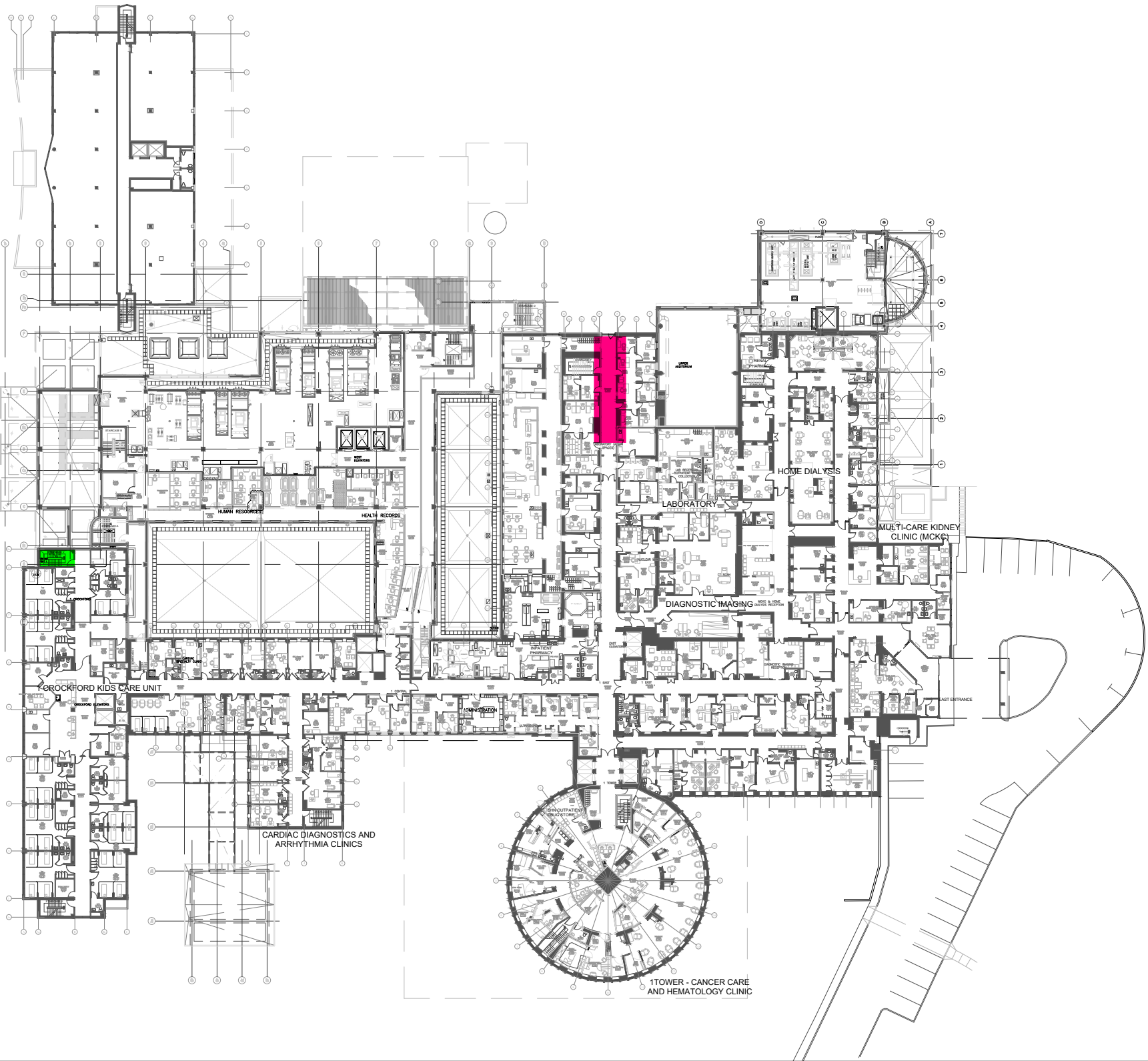


3045 SOUTHCREEK RD, UNIT 14
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L4X 2X7



LEGEND

- DUCT INSULATION (ACM)
- VINYL FLOOR TILES (ACM)



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FIRST FLOOR

REASSESSMENT OF
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2023

3050 LAWRENCE AVENUE EAST
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DS-3

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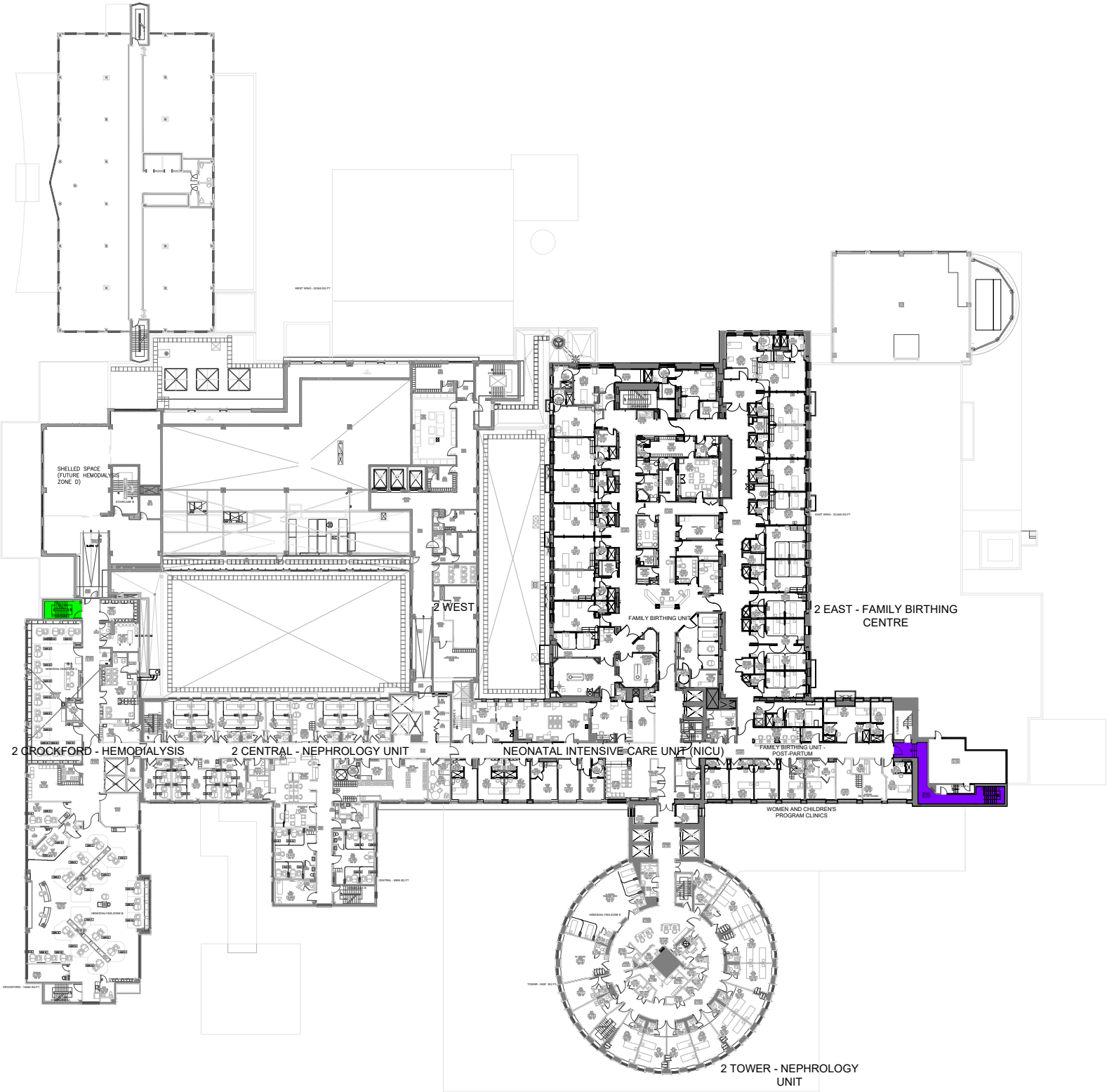
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LEGEND

- LAY-IN ACOUSTICAL CEILING TILES (ACM)
- VINYL FLOOR TILES (ACM)



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SECOND FLOOR

REASSESSMENT OF
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2023

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DS-4

DATE: JUNE 6 & 7, 2023

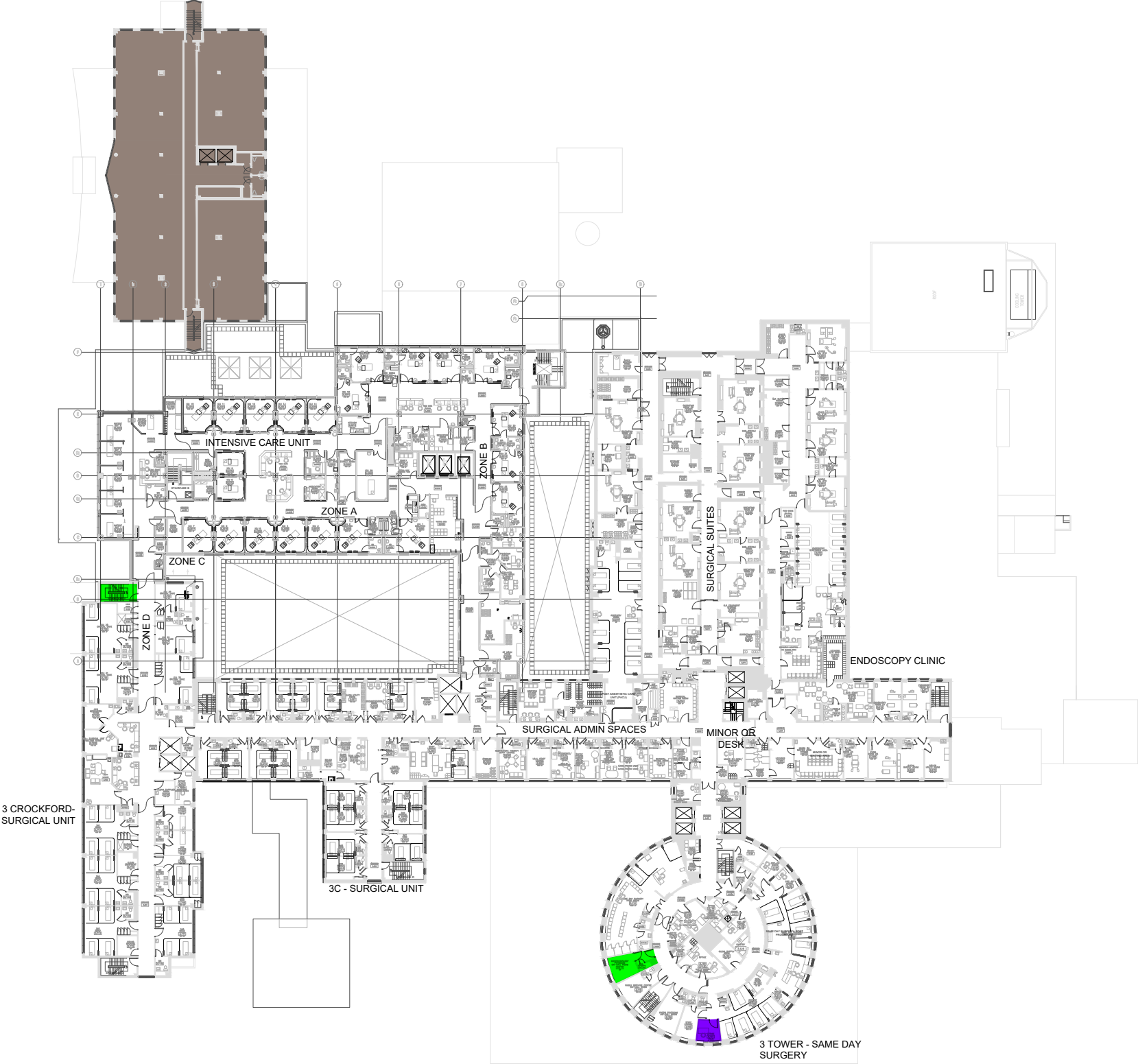
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LEGEND

- LAY-IN ACOUSTICAL CEILING TILES (ACM)
- VINYL FLOOR TILES (ACM)



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THIRD FLOOR

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2023

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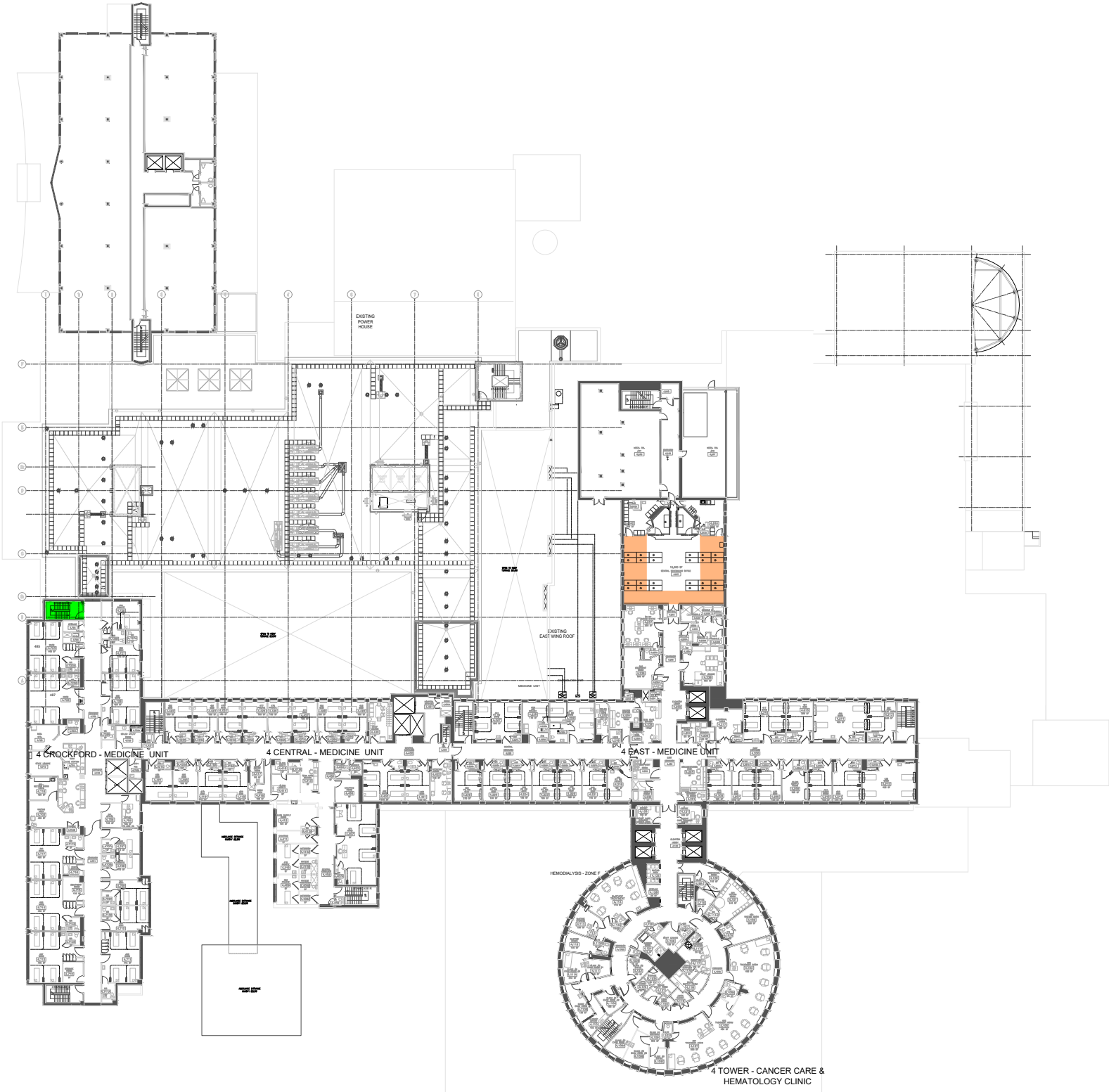
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LEGEND

- TEXTURE FINISH (ACM)
- VINYL FLOOR TILES (ACM)



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FOURTH FLOOR
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3050 LAWRENCE AVENUE EAST SCARBOROUGH, ONTARIO

DRAWING NO. DS-6
DATE: JUNE 6 & 7, 2023
SAFETECH PROJECT NO. 1-S1230015

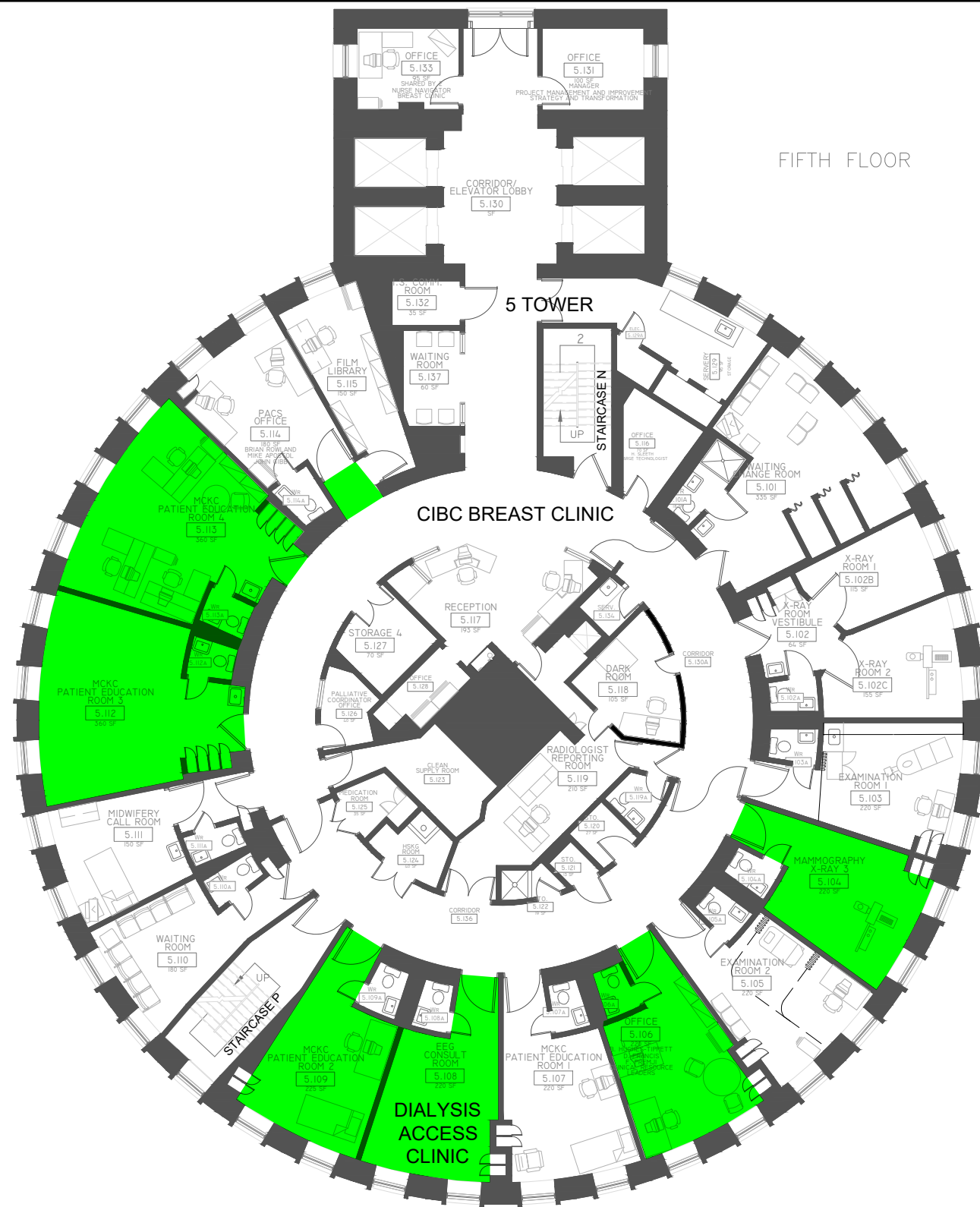


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LEGEND

VINYL FLOOR TILES (ACM)



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FIFTH FLOOR

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

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DRAWING NO.

DS-7

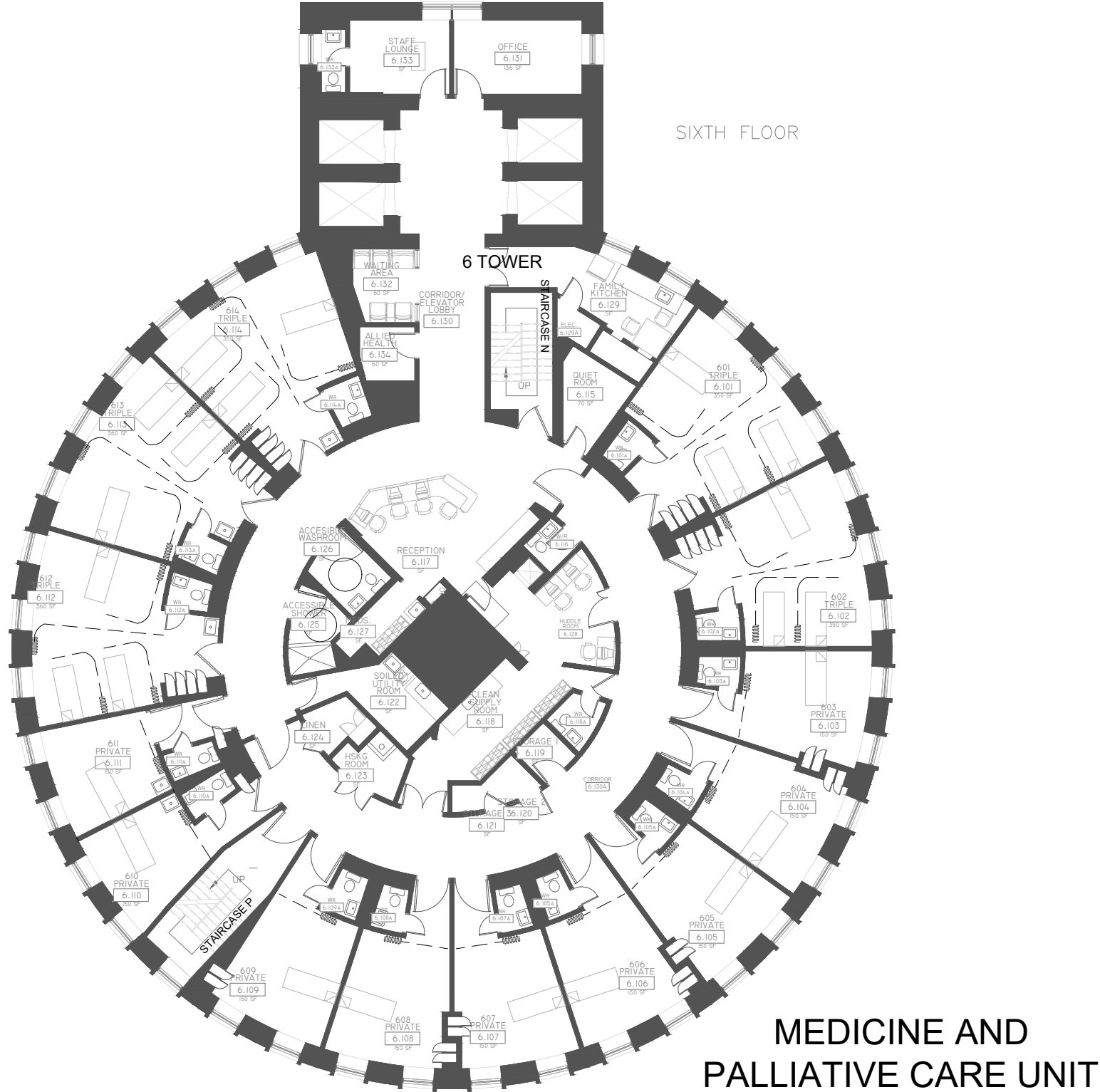
DATE: JUNE 6 & 7, 2023

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1-S1230015



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L4X 2X7

LEGEND



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SIXTH FLOOR

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

3050 LAWRENCE AVENUE EAST
SCARBOROUGH, ONTARIO

DRAWING NO.

DS-8

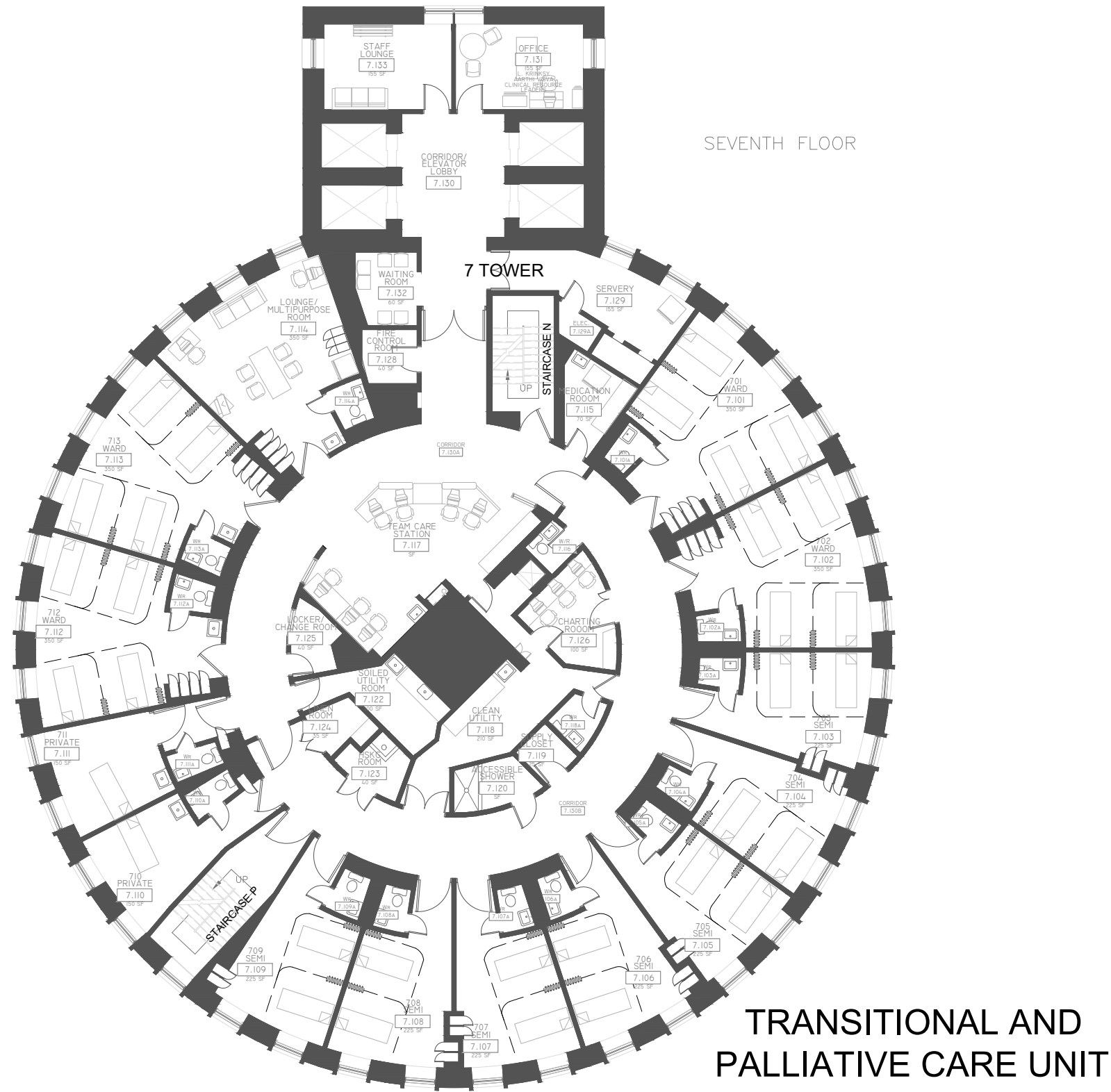
DATE: JUNE 6 & 7, 2023

SAFETECH PROJECT NO.
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L4X 2X7

LEGEND



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SEVENTH FLOOR

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

3050 LAWRENCE AVENUE EAST
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DRAWING NO.

DS-9

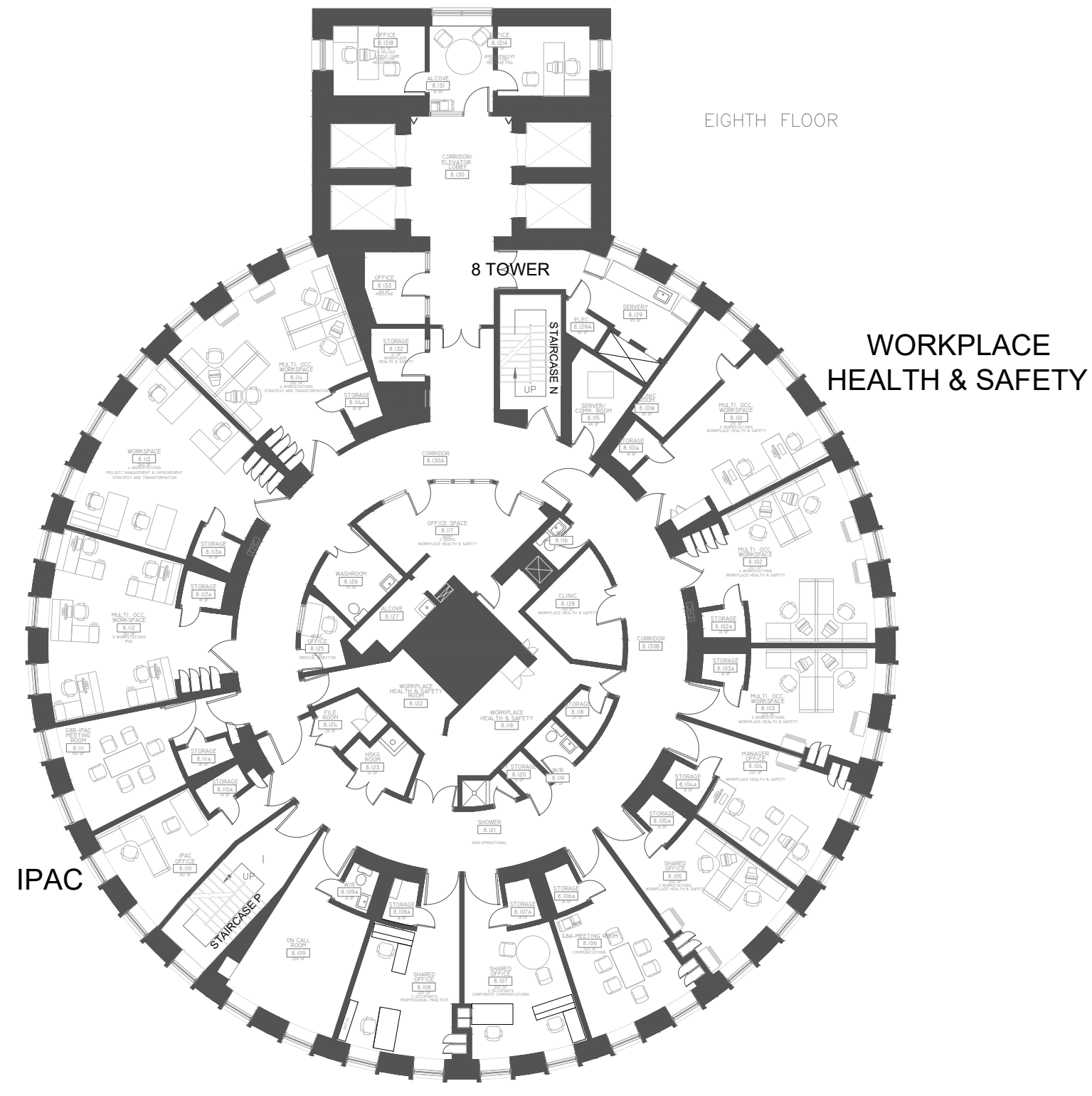
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SAFETECH PROJECT NO.
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LEGEND



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EIGHTH FLOOR

REASSESSMENT OF ASBESTOS-CONTAINING MATERIALS 2023

3050 LAWRENCE AVENUE EAST
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DS-10

DATE: JUNE 6 & 7, 2023

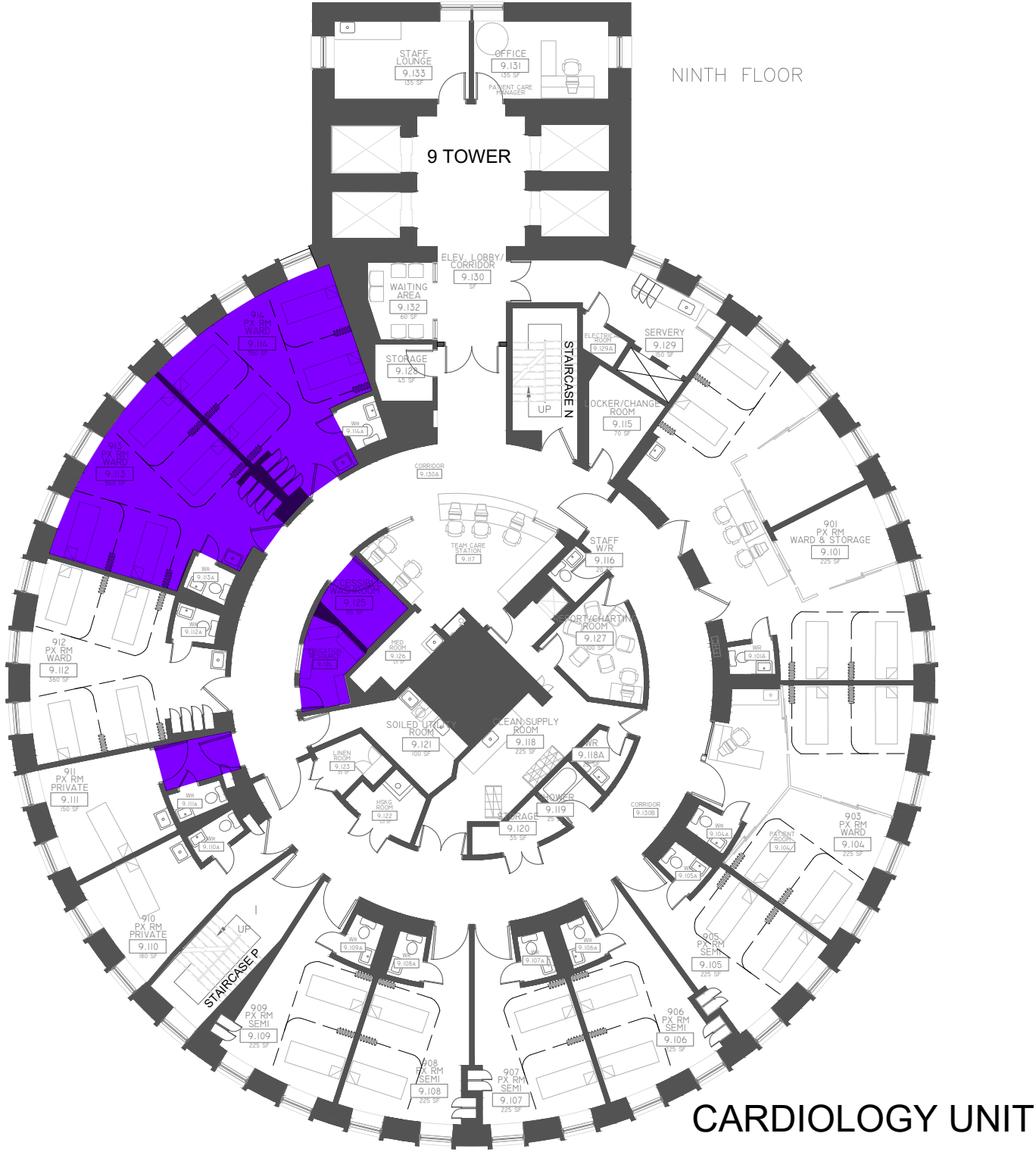
SAFETECH PROJECT NO.
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LEGEND

LAY-IN ACOUSTICAL CEILING TILES (ACM)



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NINTH FLOOR

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

3050 LAWRENCE AVENUE EAST
SCARBOROUGH, ONTARIO

DRAWING NO.

DS-11

DATE: JUNE 6 & 7, 2023

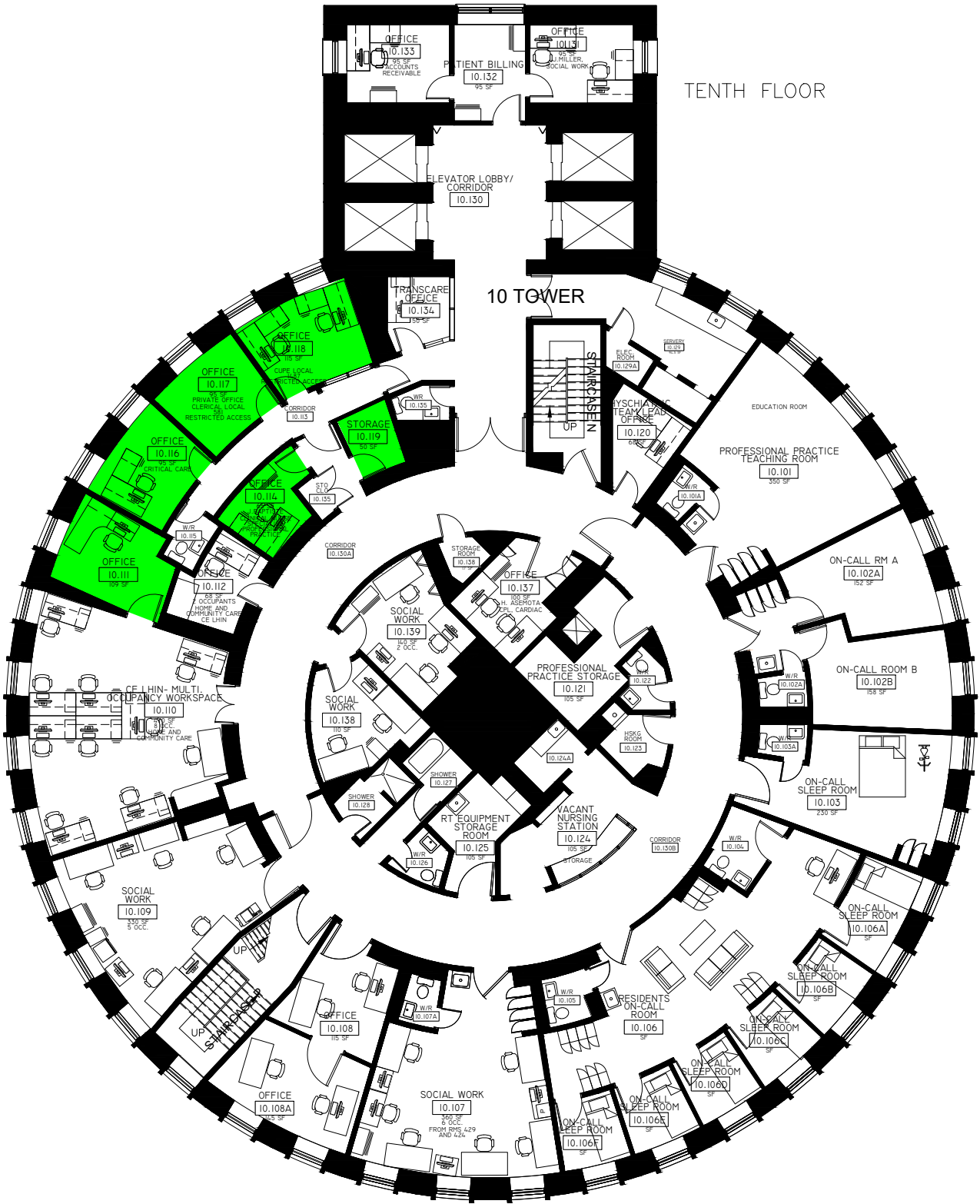
SAFETECH PROJECT NO.
1-S1230015



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L4X 2X7

LEGEND

VINYL FLOOR TILES (ACM)



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TENTH FLOOR

REASSESSMENT OF
ASBESTOS-CONTAINING MATERIALS
2023

3050 LAWRENCE AVENUE EAST
SCARBOROUGH, ONTARIO

DRAWING NO.

DS-12

DATE: JUNE 6 & 7, 2023

SAFETECH PROJECT NO.
1-S1230015



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Appendix C

Summary of ACM Occurrences

Floor	Room No.	Room Description	System	Material	Description	Classification	Friable/ Non-Friable	Condition	Est. Quantity	Unit	Access	Action
Ground	G.128	Ground Floor Cafeteria	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.110	Storage	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.111	Office	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.111a	Safe Room	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.112	Volunteer Services	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.112a	STO	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.113	Office	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.114	Reception	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.124	NFS Staff Education Room	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.124a	Storage	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.125	NFS Secretary	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Ground	G.125a	Storage	Structure	Sprayed Fireproofing	Asbestos-containing sprayed fireproofing on concrete structural columns	ACM	Friable	Good	300	SF	E	7
Penthouse	No Door Number	Tower Wing Mechanical Room	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on hot water heating and chilled water piping	ACM	Friable	Good	20	EACH	B	7
5th	Mechanical Room 19/19A	Tower Wing Mechanical Room	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	12	EACH	B	7
5th	Mechanical Room 19/19A	Tower Wing Mechanical Room	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell, magnesia block and sweatwrap) on domestic cold and hot water heat piping	ACM	Friable	Good	12	LF	B	7
4th	4.433	Central Wing Mechanical Room #18	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	11	EACH	B	7
4th	4.433	Central Wing Mechanical Room #18	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic cold and hot water heat piping	ACM	Friable	Good	20	LF	B	7
4th	4.247	East Wing Mechanical Room #16	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	30	EACH	B	7
4th	2.246	East Wing Mechanical Room #17	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	35	EACH	B	7
2nd	No Door Number	East Wing Mechanical Room #15	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water, hot water piping and storm drain lines	ACM	Friable	Good	45	EACH	B	7
2nd	No Door Number	East Wing Mechanical Room #15	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic cold, hot water heat piping and storm drain lines	ACM	Friable	Good	125	LF	B	7
1st	1.266	East Wing Lab Area	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	45	EACH	B	7
1st	1.266	East Wing Lab Area	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic cold, hot water heat piping and storm drain lines	ACM	Friable	Good	40	LF	B	7
1st	Corridors (Throughout)	East Wing Corridors	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	50	EACH	D	7
1st	Corridors (Throughout)	East Wing Corridors	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic cold, hot water heat piping and storm drain lines	ACM	Friable	Good	800	LF	D	7
Ground	G.129	Tower Wing Cafeteria	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe fitting insulation (parging cement) on domestic cold water and hot water piping	ACM	Friable	Good	10	EACH	D	7
Ground	G.307	East Wing Food Storage Room	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water lines	ACM	Friable	Good	10	EACH	D	7

Ground	G.307	East Wing Food Storage Room	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (sweatwrap) on domestic water lines	ACM	Friable	Good	60	LF	D	7
Ground	Corridors (Throughout)	East Wing Corridors	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	75	EACH	D	7
Ground	Corridors (Throughout)	East Wing Corridors	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic hot water heating lines	ACM	Friable	Good	250	LF	D	7
Ground	Corridors (Throughout)	East Wing Corridor Towards Central Wing	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	25	EACH	D	7
Ground	Corridors (Throughout)	East Wing Corridor Towards Central Wing	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	400	LF	D	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards Tower Wing	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	40	EACH	B	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards Tower Wing	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	750	LF	B	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards Crockford Wing	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	20	EACH	D	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards Crockford Wing	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	150	LF	D	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards West Wing	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	50	EACH	B	7
Concourse	Corridors (Throughout)	Central Wing Corridor Towards West Wing	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	125	LF	B	7
Concourse	B.102	Linen Storage	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	50	EACH	B	7
Concourse	B.102	Linen Storage	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	175	LF	B	7
Concourse	B.116	Tower Wing Mechanical Room #11	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	75	EACH	B	7
Concourse	B.116	Tower Wing Mechanical Room #11	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	240	LF	B	7
Concourse	B.101A	Tower Wing Mechanical Room #7	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	175	EACH	B	7
Concourse	B.101A	Tower Wing Mechanical Room #7	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	1,500	LF	B	7
Concourse	Corridors (Throughout)	East Wing Corridor	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	14	EACH	B	7
Concourse	Corridors (Throughout)	East Wing Corridor	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	475	LF	B	7
Concourse	B.468	East Wing Mechanical Room #12	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water, hot water heating lines and storm drain lines	ACM	Friable	Good	90	EACH	B	7
Concourse	B.468	East Wing Mechanical Room #12	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water, hot water heating lines and storm drain lines	ACM	Friable	Good	150	LF	B	7
Concourse	No Door Number	East Wing Mechanical Room #2	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on steam and hot water heating lines	ACM	Friable	Good	37	EACH	B	7
Concourse	No Door Number	East Wing Mechanical Room #2	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on steam and hot water heating lines	ACM	Friable	Good	120	LF	B	7
Concourse	B.124	East Wing Mechanical Room #4	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water lines	ACM	Friable	Good	1	EACH	B	7
Concourse	No Door Number	Mechanical Room #1	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water, steam and hot water heating lines	ACM	Friable	Good	150	EACH	B	7

Concourse	No Door Number	Mechanical Room #1	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water, steam and hot water heating lines	ACM	Friable	Good	150	LF	B	7
Concourse	No Door Number	Operations Lunch Room	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water lines	ACM	Friable	Good	3	EACH	B	7
Concourse	B.400	Crockford Wing Corridor	Pipe	Pipe Insulation	Asbestos-containing pipe insulation (aircell and sweatwrap) on domestic water and hot water heating lines	ACM	Friable	Good	125	LF	B	7
Concourse	B.400	Crockford Wing Corridor	Pipe	Pipe Fitting Insulation	Asbestos-containing pipe insulation (parging cement) on domestic water and hot water heating lines	ACM	Friable	Good	10	EACH	B	7
Concourse	B.468	Mechanical Room 12A	Ducts	Insulation	Asbestos-containing duct insulation (parging cement) beneath fiberglass and canvas jacketing at edges of ductwork	ACM	Friable	Good	500	SF	B	7
1st	No Door Number	Mechanical Room 19	Ducts	Insulation	Asbestos-containing duct insulation (parging cement) beneath fiberglass and canvas jacketing at edges of ductwork	ACM	Friable	Good	500	SF	B	7
1st	1.280.	First Floor Corridor	Ducts	Insulation	Asbestos-containing duct insulation (tar-impregnated paper) within ceiling plenum	ACM	Friable	Good	500	SF	D	7
1st	1.284, 1.279, 1.279A, 1.279F	Offices	Ducts	Insulation	Asbestos-containing duct insulation (tar-impregnated paper) within ceiling plenum	ACM	Friable	Good	500	SF	D	7
Concourse	No Door Number	Mechanical Room #1	Mechanical	Tank Insulation	Asbestos-containing insulation (parging cement) at the ends of two hot water tanks	ACM	Friable	Good	300	SF	B	7
Throughout	Throughout	Tower Wing Penthouse Mechanical Room	Pipe	Firestop	Firestopping material at conduit and pipe penetrations	Suspected ACM	Friable	Good	Not Determined	N/A	B	8
3rd	G.307	NFS Storage Room	Wall / Ceiling	Texture Finish	Asbestos-containing texture finish on walls and ceilings	ACM	Friable	Good	800	SF	A	7
4th	4.421	Central Scheduling Office	Wall / Ceiling	Texture Finish	Asbestos-containing texture finish on walls and ceilings	ACM	Friable	Good	2,400	SF	A	7
Ground	G.123	Cafeteria Corridor	Ceiling	Ceiling Tiles	Asbestos-containing 2'x4' white pinhole swirl pattern lay-in acoustic ceiling tiles	ACM	Non-Friable	Good	500	SF	C	7
2nd	2.136	Corridor	Ceiling	Ceiling Tiles	Asbestos-containing 2'x4' white pinhole swirl pattern lay-in acoustic ceiling tiles	ACM	Non-Friable	Good	500	SF	C	7
3rd	3.107	Corridor	Ceiling	Ceiling Tiles	Asbestos-containing 2'x4' white pinhole swirl pattern lay-in acoustic ceiling tiles	ACM	Non-Friable	Good	500	SF	C	7
9th	9.111, 9.113, 9.114, 9.115, 9.124, 9.125	Patient Rooms	Ceiling	Ceiling Tiles	Asbestos-containing 2'x4' white pinhole swirl pattern lay-in acoustic ceiling tiles	ACM	Non-Friable	Good	500	SF	C	7
Ground	G.701, G. 725, G.726, G.727, G.728, G.729	Offices/Patient Rooms	Floor	Vinyl Floor Tile	Asbestos-containing vinyl floor tile and mastic	ACM	Non-Friable	Good	3,000	SF	A	7
3rd	3.111	Anesthesiology Physician On-Call Room	Floor	Vinyl Floor Tile	Asbestos-containing vinyl floor tile and mastic	ACM	Non-Friable	Good	500	SF	A	7
5th	5.104, 5.106, 5.108, 5.109, 5.112, 5.113 and 5.114	Offices/Patient Rooms	Floor	Vinyl Floor Tile	Asbestos-containing vinyl floor tile and mastic	ACM	Non-Friable	Good	3,500	SF	A	7
10th	10.114, 10.115, 10.116, 10.117, 10.118 and 10.119	Offices/Patient Rooms	Floor	Vinyl Floor Tile	Asbestos-containing vinyl floor tile and mastic	ACM	Non-Friable	Good	3,000	SF	A	7
Throughout	Throughout Subject Building (With Exception of West Wing)	Throughout Subject Building (With Exception of West Wing)	Floor	Vinyl Floor Tile	Asbestos-containing vinyl floor tile and mastic throughout the subject building with the exception of the West Wing	Suspected ACM	Non-Friable	Good	Not Determined	N/A	A	8
Ground	G.103	I.S. Device Sign In / Out Room	Floor	Sheet Vinyl Flooring	Asbestos-containing beige and grey mosaic pattern vinyl sheet flooring	ACM	Friable	Good	100	SF	B	7
-	-	-	Roof	Roofing Tar	Roofing felts and tar	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	B	8
-	-	-	Floor	Leveling Compound	Concrete floor leveling compounding	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	E	8
-	-	-	Electrical	Elevator Brakes	Elevator and lift brakes	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	E	8
-	-	-	Misc.	Moulded Plastic Components	Laboratory bench tops	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	A	8
-	-	-	Mechanical	Refractory	Refractory materials inside boilers, incinerators and stacks	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	E	8
-	-	-	Mechanical	Boiler Insulation	Insulation present beneath metal cladding on boilers	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	E	8
-	-	-	Wall	Vermiculite	Vermiculite / loose-fill insulation within concrete block wall cavities	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	E	8
-	-	-	Ducts	Sealant	Duct sealants	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	D	8
-	-	-	Exterior	Caulking	Caulkings at exterior	Suspected ACM	Friable	Not Applicable	Not Determined	N/A	A	8

Appendix D

Historical Bulk Sampling Records

Year	Sample #	Location	Sample Description	Asbestos Content	Other
Project No: S1230031					
2023	A89884-1	3rd Floor Dr's Lounge (Runner)	Grey, vinyl flooring & Yellow Mastic	None Detected	-
2023	A89884-2	3rd Floor Dr's Lounge (Runner)	Grey, vinyl flooring & Yellow Mastic	None Detected	-
2023	A89884-3	3rd Floor Dr's Lounge (Runner)	Grey, vinyl flooring & Yellow Mastic	None Detected	-
2023	A89884-4	3rd Floor Dr's Lounge (BathRoom)	Off white, vinyl sheet backing & Mastic	None Detected	-
2023	A89884-5	3rd Floor Dr's Lounge (BathRoom)	Off white, vinyl sheet backing	None Detected	-
2023	A89884-6	3rd Floor Dr's Lounge (BathRoom)	Off white, vinyl sheet backing & Mastic	None Detected	-
2023	A89884-7	3rd Floor Dr's Lounge BathRoom Runner (Flat Brown)	Brown , Vinyl Flooring	None Detected	-
2023	A89884-8	3rd Floor Dr's Lounge BathRoom Runner (Flat Brown)	Brown , Vinyl Flooring	None Detected	-
2023	A89884-9	3rd Floor Dr's Lounge BathRoom Runner (Flat Brown)	Brown , vinyl flooring & mastic	None Detected	-
2023	A89884-10	3rd Floor Dr's Lounge - Flooring	Brown , vinyl flooring & mastic	None Detected	-
2023	A89884-11	3rd Floor Dr's Lounge - Flooring	Brown , vinyl flooring & mastic	None Detected	-
2023	A89884-12	3rd Floor Dr's Lounge - Flooring	Brown , vinyl flooring & mastic	None Detected	-
2023	A89884-13	Ground Floor Dr's Lounge (Runner)	Grey Vinyl Flooring	None Detected	-
2023	A89884-14	Ground Floor Dr's Lounge (Runner)	Grey Vinyl Flooring	None Detected	-
2023	A89884-15	Ground Floor Dr's Lounge (Runner)	Grey Vinyl Flooring	None Detected	-
2023	A89884-16	Ground Floor Dr's Lounge - Flooring	Off White Vinyl Flooring Coloringless mastic, Grey, cementitious material	None Detected	-
2023	A89884-17	Ground Floor Dr's Lounge - Flooring	Off White Vinyl Flooring Coloringless mastic, Grey, cementitious material	None Detected	-
2023	A89884-18	Ground Floor Dr's Lounge - Flooring	Off White Vinyl Flooring Coloringless mastic, Grey, cementitious material	None Detected	-
2023	A89884-19	Mastic Associated With "VSFI"	Colourless, mastic	None Detected	-
2023	A89884-20	Mastic Associated With "VSFI"	Colourless, mastic	None Detected	-
2023	A89884-21	Mastic Associated With "VSFI"	Colourless, mastic	None Detected	-
2023	A89884-22	3rd Floor Dr's Lounge Behind Drywall	White, texture coat, White, plaster, Light grey, plaster	None Detected	-
2023	A89884-23	3rd Floor Dr's Lounge Behind Drywall	White, texture coat, White, plaster, Light grey, plaster	None Detected	-
2023	A89884-24	3rd Floor Dr's Lounge Behind Drywall	White, texture coat, White, plaster, Light grey, plaster	None Detected	-
2023	A89884-25	Ground Floor Dr's Lounge False Wall	White Plaster, Grey Plaster	None Detected	-
2023	A89884-26	Ground Floor Dr's Lounge False Wall	White Plaster, Grey Plaster	None Detected	-
2023	A89884-27	Ground Floor Dr's Lounge False Wall	White Plaster, Grey Plaster	None Detected	-
2023	A89884-28	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-

Year	Sample #	Location	Sample Description	Asbestos Content	Other
2023	A89884-29	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-
2023	A89884-30	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-
2023	A89884-31	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-
2023	A89884-32	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-
2023	A89884-33	3rd Floor Dr's Lounge Drywall Joint Compound	White Joint Compound	None Detected	-
Project No: 1-5210359					
2023	1A-1C	Clean Supply Room 2.401	Insulation on Water Drain Pipe, (Tar Paper)	None Detected	-
Project No: 1-3210787					
2021	A73330-1	Room 1.243	White, Drywall joint compound	None Detected	-
2021	A73330-2	Room 1.243a	White & Off-White, Drywall joint compound	None Detected	-
2021	A73330-3	Room 1.244	White, Drywall joint compound	None Detected	-
2021	A73330-4	Room 1.420	White Plaster, Grey Plaster	None Detected	-
2021	A73330-5	Room 1.420	White Plaster, Grey Plaster	None Detected	-
2021	A73330-6	Room 1.420	White Plaster, Grey Plaster	None Detected	-
2021	A73330-7	Room 1.420	White, Vinyl Sheet Flooring	None Detected	-
2021	A73330-8	Room 1.420	White, Vinyl Sheet Flooring	None Detected	-
2021	A73330-9	Room 1.420	White, Vinyl Sheet Flooring	None Detected	-
Project No: 1-3210474					
2021	A69984-1	Office 1.250	White, plaster, Light grey, plaster	None Detected	-
2021	A69984-2	North Corridor	White, plaster, Light grey, plaster	None Detected	-
2021	A69984-3	Pharmacy Room 1.249	White, plaster, Light grey, plaster	None Detected	-
2021	A69984-4	North Corridor	2'x4' random pinholes acoustic ceiling tiles	None Detected	-
2021	A69984-5	Office 1.252	2'x4' random pinholes acoustic ceiling tiles	None Detected	-
2021	A69984-6	Pharmacy Room 1.249	2'x4' random pinholes acoustic ceiling tiles	None Detected	-
2021	A69984-7	North Corridor	Cellulose pipe insulation	Grey, layered paper (Chrysotile <0.5) Black, fibrous material with tar (Chrysotile 60)	-

Year	Sample #	Location	Sample Description	Asbestos Content	Other
2021	A69984-8	North Corridor	Cellulose pipe insulation	Grey, layered paper (Chrysotile <0.5) Black, fibrous material with tar (Chrysotile 60)	-
2021	A69984-9	North Corridor	Cellulose pipe insulation	Grey, layered paper (Chrysotile <0.5) Black, fibrous material with tar (Chrysotile 60)	-
2021	A69984-10	North Corridor	Grey Parging Cement	Chrysotile 60	-
2021	A69984-11	North Corridor	Grey Parging Cement	Chrysotile 60	-
2021	A69984-12	North Corridor	Grey Parging Cement	Chrysotile 60	-
2021	A69984-13	Main Corridor	Fibrous insulation Grey, paper	Chrysotile 80	-
2021	A69984-14	Main Corridor	Fibrous insulation Grey, paper	Chrysotile 80	-
2021	A69984-15	Main Corridor	Fibrous insulation Grey, paper	Chrysotile 80	-
2021	A69984-16	Main Corridor	Mortar Grey, cementitious material	None Detected	-
2021	A69984-17	Main Corridor	Mortar Grey, cementitious material	None Detected	-
2021	A69984-18	Main Corridor	Mortar Grey, cementitious material	None Detected	-
Project No: 1-3210786					
2021	A73329-1	Room 1.412	Pipe Wrap Insulation Grey, parging cement	Chrysotile 60	-
2021	A73329-2	Room 1.412	Pipe Wrap Insulation Grey, parging cement	Chrysotile 60	-
2021	A73329-3	Room 1.412	Pipe Wrap Insulation Grey, parging cement	Chrysotile 60	-
Project No: 1-3210463					
2021	A69690-1	Room 1.432	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-
2021	A69690-2	Room 1.432	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-
2021	A69690-3	Room 1.432	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-
2021	A69690-4	Room 1.432	9x9 Beige vinyl tile	Chrysotile 0.75	-
2021	A69690-5	Room 1.432	9x9 Beige vinyl tile	Chrysotile 0.75	-
2021	A69690-6	Room 1.432	9x9 Beige vinyl tile	Chrysotile 0.75	-
2021	A69690-7	Room 1.432	Black mastic	None Detected	-
2021	A69690-8	Room 1.432	Black mastic	None Detected	-
2021	A69690-9	Room 1.432	Black mastic	None Detected	-
Project No: 1-3210379					
2021	A68949-1	Room 1.413	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-
2021	A68949-2	Room 1.413	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-
2021	A68949-3	Room 1.413	9x9 green vinyl tile, Green, vinyl flooring	None Detected	-

SCARBOROUGH HEALTH NETWORK CONTRACTORS MANUAL (General Conditions)

April 2024

Birchmount Hospital – 3030 Birchmount Road, Scarborough ON M1W3W3
Centenary Hospital - 2867 Ellesmere Rd, Scarborough ON M1E 4B9
Scarborough General Hospital - 3050 Lawrence Ave E, Scarborough ON M1P 2V5

The Mission of Scarborough Health Network (SHN) is to improve lives by providing exceptional care.

Contract or service work will adhere with this mission. Work at all SHN hospitals and satellite sites will be organized and scheduled to have the least impact on our patients, their families, SHN staff and hospital operations.

We therefore require that all service personnel working in SHN be cognizant of this and plan their work and activities accordingly, and comply with all facility requirements therein.

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SHN FACILITIES AND PROJECT LEADS CONTACT INFORMATION

All Sites Normal Business Hours are Monday – Friday 8:00 am – 4:00 pm SHN (416) 438-2911, (416) 495-2400 or Centenary Site (416) 284-8131.

Project Leads can mainly come from either Redevelopment or Facilities; however, other departments may also implement projects and thereby also take on the role as Project Lead.

Facilities Planning, Redevelopment & PMO

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Manager-Facilities Planning and Space Management	Dianne Abistado	Cell (416) 219 8658
Manager – Planning and Project Management	Angeli Persaud	Cell (647)302 6414
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Project Manager	Brandon Williams	Cell (437) 244-2384
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Plant and Facilities Operations

Director	Tyler Crocker	Ext # 6253	Cell (416) 625-7541
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Supervisor- Centenary Hospital	Nash Botros	Ext # 4281	Cell (416) 910 0729

For Security:

Call “ Locating” at 416-495-2400, Ext # 7233 (General Hospital) or Ext # 2544 (Birchmount Hospital), 416-284-8131 at Ext# 4223 (Centenary Hospital).

RECOMMENDED ACCESS AND ROUTES

- All external personnel, must make prior arrangements to enter the respective site (Hospital) by contacting the appropriate SHN Project Lead (see page 2) during normal business hours.
- For Centenary Hospital, contractors working for a short-term (no more than 1(one) week) will have to log in and obtain a name tag by security office on Level 1 by South Entrance (Margaret Birch Wing). If to work long-term (greater than 1(one) week), contractors are required to follow protocols in item b below by securing a contractor's badge from either of the two hospitals.
- For General and Birchmount Hospital(s), contractors will be required to arrange for ID badges through the Project Lead in advance of the work. The badges with card access are limited to key staff only. Contractor crew members are expected to be wearing their company ID and be identified by their company uniform at all times. Badges for building and parking access will be at contractor's expense.
- Project Lead will initiate a Notice of Start to notify Security and Workplace, Health and Safety of the contractor's duration and location of the work.
- Project Lead will also request for the required access for the ID badges or keys from Security. Keys will be signed in and out by the Project Lead only.
- After-hours access must be coordinated by the Project Lead. The Project Lead will confirm requirements with Security or Shipping and Receiving (for loading docks) in advance.
- After hours utility service access or concerns should be requested from the Facility Manager and respective site supervisor in advance. Any urgent issue should be coursed through:
 - For General Hospital Shift Plant Operator: (647) 504-7564
 - For Birchmount SHN Shift Plant Operator: (647) 267-2443
 - For Centenary SHN: all issues and concerns are coursed through the Facility Supervisor
- Traffic through patient and critical areas shall be kept to an absolute minimum throughout the duration of the work. Travel between entrances, public areas and the work area will be via the most direct route and be coordinated with the SHN Project Lead contact in advance.
- Crew traffic, access points and material delivery routes should be planned and agreed upon by all parties in coordination with other Project Leads should there be 2 or more contractors working in the same site for the same period of time. As part of the MOL regulations, no two contractors are allowed to work on the same project site or use the same access routes at the same time.
- Fire routes or exit doors and stairwells must not be obstructed. Fire doors must not be wedged open or latches disengaged at any time. If keeping fire doors open is required in going about with the repairs or the work, permission should be obtained first from Security and Facilities. If fire exit doors will be blocked at any point in time in going about with the project, the Fire Marshall must be consulted and obtain permission from the Fire Department.

IDENTIFICATION

- **Permanent ID Badge:** Contractors on SHN property who will be considered as on-call technicians on site will be required to purchase a personal photo ID badge from Security. ID badges are not transferable and must be used only by the person to whom it is issued.
- **Contractor Card Access:** Arrangements to obtain an ID badge are to be made through the appropriate

SHN Project Lead. See attached ID Badge Request Form to request for badge access cards in Appendix A. Contractors will be required to obtain a contractor's badge for all key personnel.

- **Site Logs:** All contractors working on site of which project will run for more than three (3) days will be required to provide and maintain a sign-in sheet by work site as controlled by the construction supervisor. Said sign in sheet should be accessible to SHN Security or Project Leads during the duration of the project and up to two (2) months after project completion.

PARKING

- Parking will be at the Contractor's expense via monthly parking rates, access badge obtained and arranged with Security.
- Please respect all designated Emergency, Restricted, Reserved for Service Technicians, Wheelchair Parking Areas and other posted no parking areas.
- Short-term parking for contractors is available on each site only for drop-off or pick up for the day.
- Any vehicle parked for longer than a day within the short-term parking areas or by restricted/emergency/service areas shall be fined or towed if necessary, at the contractor's expense.

KEYS

- Access to mechanical, electrical, elevator shafts, IT closets and communication rooms may be requested from Facilities or Digital Services through the SHN Project Lead.
- Request to access restricted areas, or after-hours access can be made by contacting the SHN Project Lead contact.
- Keys to restricted areas can be signed out from Security with permission from the Project Lead.

MATERIAL OR EQUIPMENT DELIVERY, TRANSPORT AND STORAGE

- Arrangement must be made with the SHN Project Lead contact before any tools, equipment or materials are brought into site to determine acceptable storage and internal delivery routes to work area.
- All materials and equipment deliveries shall be coordinated with the SHN Project Lead contact.
- Use of the elevators for dedicated use for project material or equipment transport or major unit moves shall be arranged with Facilities through the SHN Project Lead contact.
- Where permission is granted to the Contractor to use an elevator, the Contractor shall be responsible for providing appropriate wall protection to the cab interior and is expected to have cab vacuumed and wiped clean before turning it back for operations. Contractor shall cover for costs for repairs should the finishes get damaged while using the elevator.
- The Contractor shall clear and surrender use of the elevator immediately during any instance of emergencies, i.e. like a Code Red, Green or Code Blue/Pink.
- Comply with the requirements noted in the infection control and safety policies and guidelines during construction when transporting materials, tools & equipment to or from any work area.

CONTROL OF CONSTRUCTION ELEMENTS

- Noise, dust, odours, etc. shall be minimized (if not eliminated) to ensure that these elements are contained and not disruptive or may pose health risks. Corrective action to cease or limit inconveniences to patients and/or staff shall be implemented immediately upon notification of the SHN Project Lead contact. This may require that work be stopped and rescheduled to a mutually agreed upon time.
- Service interruptions must be coordinated in advance through the SHN Project Lead contact; contractor to follow SHN's shutdown procedures (see Appendix A).

- Submit, as per agreed upon procedure, a request for any work impacting existing services or clinical operations at least two (2) working days prior to start time for work.
- Hospital Project Lead is to provide the asbestos reports of the work/site area (if any) in advance of the work for the contractor's reference.
- Contractor is expected to notify the Project Lead for any discovery of asbestos-containing materials (ACMs) on site so next steps can be taken.

SITE CLEANLINESS AND GENERAL UPKEEP

- It is the responsibility of the contractor to keep perimeter areas clean at all times and remove all garbage debris, packaging, surplus material and scrap from the work site on a daily basis. SHN containers and garbage bins may not be used unless written permission is obtained from the SHN Project Lead contact.
- Contractor shall provide and use their own external garbage bins that will be parked at agreed upon designated spots. Hospital garbage bins shall be exclusively used for and by the hospital.
- Contractor should assign a crew member who will regularly ensure that the dust mat gets refreshed and perimeter areas outside of the hoarding. Area surrounding the hoarding should be mopped clean with damp cloth, keeping areas in its best condition at all times.
- All tools, equipment and materials must be properly labeled; secured and protected (this is strictly enforced in occupied SHN areas). The Hospital assumes no responsibility for lost or stolen equipment. Use of SHN's carts, ladders, tools and equipment is not allowed.
- Damage to SHN equipment or property by the Contractor must be reported immediately to the Project Lead contact. The Contractor will be charged for the replacement or repair of the same.
- Contractors should be aware of areas where use of mobile phones are restricted as this may interfere with life support, diagnostic, imaging and/or other medical equipment.
- Safety clearances and proper protective enclosure or equipment are required before any cutting, welding, core drilling, open flame work or dust work is done (see page 11-13). Submit a hot work permit (see pg. 17) for such work to the SHN Project Lead contact, to obtain approval from Facilities, a minimum of two (2) working days prior to the work commencing.
- Under no condition will it be permissible to connect a machine requiring electrical power to the existing building electrical panels. Contractors and subcontractors shall provide their own exterior located generators unless approved in advance.
- Secure and make safe the building, premises and adjoining premises from damage during the construction period and during any period when the work is closed down for any cause.
- Materials which are to be removed in the existing building should be confirmed with the SHN Project Lead contact as to the requirement and at the time of handover. Where services are connected to such items, services shall be removed and capped / isolated except where required for reuse where they shall be temporarily capped / isolated.
- No signs, advertisements, or notices of any kind shall be placed on or in the building, fences, hoarding or any place on the site except as specifically directed in writing and approved by the SHN Project Lead contact.
- Contractor shall post the following by the hoarding: building permit (if any), notice of project (if required), IPAC activity permit, safety signage, and the standard SHN construction notice.
- Contractor shall be responsible for providing the required safety board inside the construction area.

EMERGENCY AND FIRE PROTECTION

- Provide and maintain at all times, ready access to firefighting equipment. Fire extinguishers stored onsite or used as standby fire for hot works should be properly labeled and not expired.
- In the event of a fire emergency, premises, existing fire emergency pulls and fire extinguishers can be used as required.

- In case of a fire or an emergency, the following procedure should be followed:

R Remove any people from danger.
E Enclose all doors and windows.
A Activate the fire alarm pull station.
C Call 5555. Give floor location and nature of fire.
T Try to fight the fire with appropriate extinguisher.

- When a fire alarm is activated:
 - The Code Red alarm will sound coupled with an overhead paging announcement. These are long beeps in between short intervals.
 - All magnetic door holders will be released and the fire separation doors will be closed.
 - An announcement will be made identifying the location of the fire; do not go through fire doors or use the elevators.
- All contractors and service persons on hearing the fire alarm will cease work, listen for the location of the fire and await further instructions. Contractors are required to remain by work area unless instructed to evacuate or once Code Red is lifted.
- If the fire or emergency becomes more critical, a Code Green or an evacuation may be activated. Turn off all equipment then await further instructions if area is affected, if immediate exiting is required and location for assembly.
- If the fire or emergency is all clear, the bells will cease and an announcement will be made that Code has been lifted and declare it "All Clear". Contractors may resume their normal work and circulation in the SHN.

Emergency Codes for SHNs

Code Red
Code White
Code Green
Code Orange
Code Orange CBRN
Code Brown
Code Blue
Code Pink
Code Yellow
Code Black
Code Purple
Code Silver
Code Grey Button-Down
Code Grey
Code Amber

Fire
Violent Patient / Physical Danger
Evacuation
External Disaster
CBRN Disaster
In-Facility Hazardous Spill
Medical Emergency Adult
Medical Emergency Infant/Child
Missing Person
Bomb Threat / Suspicious Object
Hostage Taking
Active Attacker
Air Exclusion
Infrastructure loss or failure
Missing/Abducted Child

TEMPORARY FIRE SAFETY AND FIRE ALARM

- While work of this contract is proceeding, contractor shall make certain existing fire alarm systems and life safety systems (i.e. smoke detectors, enunciators, bells, exit light, etc.) are in proper operating condition at all times except when work is being done on said systems (i.e. at evenings, weekends, etc.) and said systems shall be left in proper operating conditions by temporary or permanent means.
- If, during the progress of the work, it is necessary to take all or part of the existing fire alarm system

out of service, prior to final installation of the new fire alarm system, the Contractor shall provide adequate fire watch and also advise SHN Project Lead contact of the condition minimum of two (2) working days in advance. All such shutdowns and need for a fire watch shall be kept to a minimum.

- The fire watch shall be requested by the Project Lead from Security to have a staff who will be able to patrol the affected areas and initiate a proper fire drill should the need arise.
- Fire alarms should be bypassed on a daily basis, to be coordinated with the Plant Operator or with the Facilities Supervisor. Fire alarms shall be by-passed from start of the work until after the construction clean is complete.
- Contractor shall be responsible for the payment of the fire truck services should they get summoned if for any reason these alarms get activated by construction or cleaning activities within the construction site.

SAFETY PROGRAM

- The contractor will supply the SHN Project Lead with a copy of their construction safety program as well as all workers are to supply their proof of safety training, such as but not limited to, working overhead, working in a confined space, etc. for the specific job duty.
- All work performed in SHN must be following the hospital's policies and procedures.
- MSDS sheets are to be available on site and readily accessible to the SHN Project Lead contact at their request.
- See Workplace, Health and Safety Program Manual as part of the appendices of this package.

PROPERTY DAMAGE

- Contractor shall be responsible for any damage done to the hospital's facilities, furniture, fixture or equipment and have this repaired or replaced as required at the Contractor's expense.
- Architectural, mechanical and electrical drawings indicate the approximate locations of services as far as these are known. The contractor and subcontractors shall take all measures to verify actual location of existing services prior to start of work. Nevertheless, should any mechanical or electrical service line be broken or disrupted by operations specified under this contract, the contractor shall repair service lines and make good all damage to the approval and satisfaction of the SHN Project Lead contact and/or Consultants at the Contractor's expense. It is expected that such incidences be reported to the Project Lead immediately.

INCIDENT REPORTING

- Any unplanned event that impacts facilities or clinical operations that occurs as a result of construction /contractor activities must be reported immediately to the SHN Project Lead contact.
- The contractor shall repair and make good all damage to the acceptance and satisfaction of the SHN Project Lead contact and/or Consultants.

CONTINUITY OF EXISTING SERVICES

SHN operates 24 hours a day, seven days a week, 365 days a year. Disruption to SHN operations must be mitigated or at least kept to a minimum.

- Schedule and coordinate work so that services are not unduly interrupted at any time. Interruption of services must be reviewed and scheduled with the SHN Project Lead and agreed upon with end users and all other impacted departments. Generally, service interruptions are to be scheduled to occur after hours.
- To obtain approval to interrupt services complete the shutdown procedure (see Appendix A) at least two (2) working days prior to interruption of services.
- Include the cost of all investigations, including ferro scanning as required.
- Include the cost of cryogenic freezing of domestic water as required.

INFECTION CONTROL PROCEDURES DURING CONSTRUCTION

Pre-Construction

- Notify Infection Prevention & Control, through the SHN Project Lead contact a minimum of 1 week prior to start of work (except in the case of an unplanned emergency situation requiring immediate attention). Infection Prevention & Control will perform a CSA approved Preventative Measures Analysis* according to population at risk and type of construction activity. This analysis will determine the Infection Control Procedures and any barriers required prior to start, during and in completion of the specific project.
- Ensure all construction personnel associated with each project has received and read a copy of SHN Contractor's Procedure Manual.
 - Ensure that all sub-trades and all workmen are familiar with and follow the required Infection Control Procedures.
- Identify possible service disruptions e.g. water, electrical, pneumatic tubing, HVAC, Oxygen, and the like.
- Review the potential for the contamination of occupied areas from air intakes or ductwork with Plant Operations and Facilities prior to start of work. Review the location of all air intakes so as to prevent cross contamination from the work site.
- Establish with the SHN Project Lead contact and Infection Control a safe traffic pattern for workers, tools, supplies and debris removal.
- Identify and discuss barrier/hoarding placement with the SHN Project Lead contact and Infection Prevention & Control. For long term / large scale projects, drawings indicating hoarding lines are to be provided.
- All tools, carts, supplies and workers clothing must be clean when entering occupied areas.
 - Carts used to transport equipment/supplies through an occupied area need to be clean and may need to be covered.
- Before the construction project is started, requirements for cleaning the adjacent areas shall be determined.
- Notify SHN Project Lead contact if all SHN equipment and supplies have not been removed, sealed with poly, or taped in a closet or cupboard prior to barrier installation.
- **Barrier Installation: Short Term / Low Risk Population as determined by Infection Control**
 - The HEPA fan, if will be required, will be the first equipment that is to be installed and operated inside the project hoarding. DOP testing should be updated and proof of certification should be clearly seen as adhered to the equipment.
 - Prior to the start of work, including ceiling tile removal, exploratory opening of walls, ceilings or access hatches and any other dust generating activity, erect barriers, which shall comply with the following:
 - Barriers to extend from floor to false (finished) ceiling to completely enclose and isolate the work site from adjacent occupied spaces.
 - If ceiling tiles are to be opened up, ensure that the plenum gets vacuumed prior to closing off the ceiling area.
 - Vacuum the walls and ceiling of the anteroom, daily with a HEPA equipped vacuum cleaner.
- **Worksite**
 - Post construction signage as required onsite (e.g. "Construction Zone", "Entrance restricted to

Construction Personnel only” or “Do Not Shut Off Exhaust Fan”).

- Provide an airtight seal to all ductwork from the work site and adjust airflow to ensure that the work site is under negative air pressure to the adjacent areas of the Health Care Facility at all times.
- Securely seal any gaps, holes or leakage paths around any pipes (Including plumbing penetrations and electrical outlets) between construction site and adjacent areas of the SHN.
- Removal of debris, tools, equipment and materials from the work site shall be via an agreed to route and at an agreed to time, generally after hours.
 - Transport debris in clean containers with tightly fitting lids or completely cover debris with a wet blanket or wrapped in heavy gauge poly. Wipe and/or vacuum clean containers prior to leaving the site to reduce risk of dust transfer to occupied areas.
 - Cover all rubbish chutes and bins and thoroughly wet rubbish and/or debris prior to placing in chutes. Locate rubbish chutes to prevent dust migrating into air intakes
- Areas of external excavation and the connecting road way must be kept moist at all times to keep dust to a minimum.
- Carefully remove ceiling tiles so as to keep them in a horizontal position until vacuum cleaned with a HEPA-filter equipped vacuum cleaner.
 - Clean all ductwork, conduits, cable trays etc. and ceiling space with a HEPA equipped vacuum cleaner, prior to or immediately after removal of existing ceiling tiles and prior to start of work. Replace ceiling tiles should work be interrupted or stopped for any reason.
- Seal and make air tight all exterior windows and doors in the vicinity of a) site work b) demolition and c) rubbish bins and chutes.
- Maintain negative pressure within the construction area by using:
- Portable HEPA filter-equipped air filtration units that include pressure gauges and an alarm (High Risk Areas), or HEPA-Filter equipped vacuum (Lower risk areas as determined by IPAC).
- Filters shall be monitored and replaced if clogged or functioning below the manufacturer’s specifications.
- Reminder: Anteroom should be negative to the occupied area, and positive to the worksite. Worksite must be negative to Anteroom and adjacent occupied areas.
- Ensure that the air is either exhausted directly outside and away from intake vents or filter through a HEPA filter before going through regular exhaust and possibly being recirculated. Air movement from all adjacent occupied areas of the health care facility into the construction area shall be monitored to ensure that it exceeds 10m/min and that the negative pressure differential with respect to all adjacent building areas is no less than 7.5 Pa (0.03wc). High-efficiency exhaust fans with High-Efficiency Particulate Air (HEPA) filters shall be used for the duration of the work.
- Maintain barriers throughout the work. Repair or replace as required or instructed. Replace torn or dirty poly sheeting and reapply tape as required to maintain airtight barrier.
- Clean immediately outside the work area with a HEPA filter-equipped vacuum cleaner every day or more frequently if necessary.
- Workers must use the route identified to enter and exit the work site. Workers should not enter the occupied SHN unless the SHN and Infection Control have identified an approved route. Prior to entering an occupied area, dust must be removed from the body, clothing and shoes using a HEPA equipped vacuum cleaner; as well, when workmen leave the work site and enter occupied areas; or workmen must wear coveralls which are to be removed prior to leaving the work site.
- An entrance and if possible, an elevator shall be designated by SHN for use by the Contractor to transport material and workmen to and from the work site. DO NOT TRANSPORT construction personnel, materials or debris in an elevator that is used to transport patients, visitors and staff.
 - Ensure that the dedicated elevator is vacuumed (HEPA) and damp mopped daily (or more often if necessary) to remove dust.
 - If an elevator is not available for use by the Contractor, workmen must use a designated

stairwell.

- Contractor shall ensure assigned elevator and/or stairwell remains free of dust and debris and must be cleaned on a daily basis, as required, and at the end of the day.
- In areas designated by the SHN (i.e. Operating Rooms) workmen may be required to wear protective clothing. DO NOT ENTER THESE AREAS without protective clothing if directed.
- For small projects, tools, carts and/or toolboxes are to be clean and may be kept in the area immediately adjacent to entry to the barrier.
 - For larger projects, toolboxes and equipment are to remain within the work site barriers until completion of work. Do not leave tools or equipment unattended in any occupied areas
 - Thoroughly vacuum all tools, toolboxes and equipment prior to removal from behind work site barrier.
- Use water or dust abating material to keep dust to a minimum in the construction area.
 - Provide pest control if required.
 - Clean the construction area with HEPA filter-equipped vacuum cleaner, a wet mop, or both, as necessary.
- Replace any and all existing or new ceiling tiles, which become wet due to work being done by the contractor.
- Replace any and all drywall that becomes wet due to flooding or work being done by the contractor.
- Use cryogenic procedures to isolate valves and supply water piping. Hot and cold domestic water piping must not be drained. If drained for any reason, coordinate with the SHN to have piping sanitized.
- Report any water leaks or flooding immediately to the SHN Project Lead contact, who will inform Facilities, Infection Control and the affected patient care areas.

After Construction

- Infection Prevention & Control (IPAC) Appointed Designate is required to inspect the site prior to removal of barriers.
- Thoroughly vacuum (HEPA filter-equipped) and/or wet clean the work site and all surfaces of the dust barriers and anterooms in preparation for removal.
- Poly barriers to be erected on the non-construction side of the hard barriers before removal of the hard barriers.
- Thoroughly vacuum and/or wet clean the areas occupied by barriers. Repair finishes damaged by barrier installation or the work and touch up paint as required to leave the site in the same condition or better than, it was prior to start of work.
- The HEPA fan, if any and if required, will be the last piece to be removed from the project site after the hoarding comes down.
- Environmental services to do final clean before removal of the poly barriers.
- Remove barriers at times designated by the SHN.
- Project Manager is required to inspect the site after removal of barriers.

Failure to comply with Infection Control requirements may be cause for stoppage of work. Costs that may be incurred as a result of non-compliance are the responsibility of the Contractor.

*Z317.13-07 CSA Standard Infection Control during Construction or Renovation of Health Care Facilities is used by Infection Control to do Preventive Measures Analysis.

SHN POLICIES

Harassment Policy

- Contractors will be responsible for the behavior of their employees while on SHN property. Contractors working at SHN must demonstrate courtesy and respect in interaction with all employees, volunteers, physicians, patients and visitors at SHN and will not engage in any form of abusive or discriminatory behavior. Any violation of the SHN Code of Conduct or Workplace Violence Prevention policy is unacceptable and such behavior will not be tolerated.

Asbestos Management Program

- Copies of the Asbestos Management Program (AMP) and asbestos logs are located in the Command Centre office at the General Site.
- AMP applies to all SHN staff as well as all service providers and contractors performing work at SHN General Site.
- Contractor should notify the Project Lead upon discovery of suspected hazardous materials on site.

Camera Policy

- Cameras are prohibited within occupied areas of the SHN unless permissions are procured through the SHN Project Lead contact in conjunction with Communications. This may require accompaniment.

Planned Shutdown Policy

- Construction managers/contractors and subcontractors must request the scheduling of all construction related utility shutdowns through the appropriate SHN Project Lead Contact. SHN is responsible for the disconnection or shut off of all valves, circuit breakers and smoke detectors for utility outages.

SHUTDOWN REQUEST PROCEDURE

- **Contractors and sub-contractors shall not shut down, tie into or disrupt any utility systems unless they are specifically directed or permitted to do so in writing by the appropriate SHN Project Lead contact. Contractors and sub- contractors shall not bag, disconnect, or impede any smoke or heat detection systems at any time without a written authorization from Plant Operations and Facilities.** The utilities affected by this policy shall include, but not limited to, all plumbing, fire sprinkler, gases, smoke detection, fire alarm, electrical, telephone, data, security, steam, heating, air conditioning, exhaust and conveying systems. Contractors must never assume the work they are performing in any SHN facility is not covered under this policy. The contractor's request for a utility shutdown must be performed in accordance with the procedures outlined in the "Specific Information" section of this document.

Refer to the Planned Shutdown Policy for the proper procedure, as seen in Appendix A. Use Shutdown Form as found in pg. 14.

SAFETY REGULATIONS & WELDING PROCEDURES

Before commencement of any welding, soldering or cutting in SHN, the following precautions and procedures must be strictly adhered to:

- Person(s) who use the equipment must be competent or certified and have permission to use the equipment.
- The equipment to be used must first be checked to make sure it is in good and safe operating condition.

When all of the following procedures and precautions have been taken, you may begin to weld, solder or cut.

- Obtain an approved hot work permit (see page 19) from Facilities. Coordinate for noisy works, it should be done before or after hours or agreed upon reasonable time.
- Fire alarms to be bypassed every morning, confirm with Facilities once completed prior to welding works.
- Before starting to weld, solder or cut, make certain there are no combustible materials nearby or opening leading to combustible material, that flame, sparks, hot slag or hot metal might ignite.
- Be sure to keep a clear space between cylinders and the work. This is important so that cylinders and regulators can always be reached quickly.
- Never use acetylene at pressures above 15 LBS PER SQ in. Using acetylene at pressures in excess of 15 LBS PER SQ. in. is a hazardous practice. To do so is contrary to insurance regulations and is prohibited by law in many places.
- Never release acetylene into the air near other welding or cutting or sparks or flames. If it is necessary to release acetylene, release it out in the open, in a place where a mixture with air will not be ignited.
- Always make sure hose is securely connected before using equipment. When using equipment, after making or remaking connections at the blowpipe and regulators, test for leakage.
- Never hang a torch with its hose on regulators or cylinder valves. The weight of a torch and hose may strain or damage the regulator, or interfere with the quick closing of the cylinder valve.
- Use special care when working in restricted or confined spaces (following Occupational Health & Safety Act, Healthcare O.Reg 67-93).
- Special clothing should be worn, preferably fireproof, but certainly wool, which is relatively resistant to sparks and hot slag.
- Never do any welding, soldering or cutting on containers until they have been thoroughly cleaned and safeguarded.
- Protect cylinders, hose, legs and feet when flame cutting. Do not cut material in such a position that will permit sparks, hot metal, or the severed section to fall on the cylinder, hose, legs or feet.
- Avoid dropping stub ends of welding rods on floor. Put them in a suitable container. Carelessly dropped stub ends are a fire hazard, and also if stepped on, may cause a serious fall, resulting in serious injury. A suitable container partly filled with water and within easy reach is a good place in which to dispose of these short ends.

IMPORTANT: Where welding, soldering or cutting must be done near combustible materials, special precautions should be taken to make certain that flame, sparks, hot slag or hot metal do not reach combustible material, and thus start a fire. It is especially important to take special precautions in the case of portable cutting operations. Cutting produces a greater quantity of sparks and hot slag than does welding and locations where portable cutting equipment is used, must therefore, be thoroughly safeguarded against fire.

Additional Precautions for Safeguarding Against Fire:

- Never use welding, soldering or cutting torch where sparks or open flame of any kind would be a

hazard. Flames are a hazard in any rooms containing flammable gas vapors, liquids or dust, or any material that ignites easily.

- Take welding, soldering or cutting work that can be moved to a location where there will be no possibility of setting fires. This must always be done when the metal to be welded, soldered or cut is in a place where open flames are prohibited. This practice may also be sensible in many other locations, even if open flames are allowed. If the work cannot be moved, combustible materials should be taken a safe distance away, if possible. If cutting is to be done this distance may be 30 to 40 feet or more.
- Floors should be swept before the torch is lighted. If flammable materials cannot be moved, use sheet metal guards, flame proof curtains, or similar protection to keep sparks close to the work you are doing.
- Have someone stand by to watch the sparks so that they can give warning if sparks get beyond the protective guards. It is not reasonable to expect whoever is doing the welding or cutting to watch the sparks, since his attention is on the work. In addition, the sparks cannot always be seen easily through goggles. Never forget that heavy cutting sparks sometimes fly up to 25 to 30 feet or more and hold their heat for several seconds after landing.
- Be ready to put out any fire promptly with fire extinguishers, pails of water, water hose, or sand. If there is a possibility that a smoldering fire may have been started, keep a worker at the scene of the work for at least half an hour after the job is completed. Have them look carefully for smoke or fire before leaving.

SHUTDOWN REQUEST FORM

Project Name: Date Submitted: _____

Building(s) affected: _____

Locations affected : _____

Requestor Information

Person Requesting Shutdown _____

Company Name _____

Phone Fax: _____

Cell Phone: _____

Email: _____

Type of Shutdown

☐ Water Domestic Cold

☐ HVAC Building Supply

☐ Sprinkler

☐ Water Domestic Hot

☐ HVAC Building Exhaust

☐ Steam

☐ Electrical

☐ Transport Systems

☐ **Asbestos Log Review Completed**

Reason for Shutdown: _____

Start Date: _____ Day: _____ Start Time: _____

End Date: _____ Day: _____ End Time: _____

Trade Person

Performing Shutdown : _____

SHN Approval : _____

TO BE FILLED OUT AFTER SHUTDOWN

Shutdown Complete Confirmation :

(Contractor) _____

Completed Form (e-form acceptable) to be submitted to Plant Operations and Facilities and/or Project Lead.

HOT WORK PERMIT

Start Date:		Start Time:	
End Date:		Completion Time:	

Job Location:				
Description of Job:				
Company		Requestors Name:		
Phone #:			Cell #:	
Detailed Area of Work:				
SHN Safety Regulations and Welding Procedures Reviewed	Yes		No	
Is there combustible material in the area or openings to combustible materials	Yes		No	
Is this area considered a restricted confined space	Yes		No	
Patient Occupancy	Yes		No	

Fire Safety: (request for shutdown must be submitted two (2) working days in advance, if required)

Sprinklers to be deactivated Smoke detectors in area Notification to Security & Fire Department (Facilities Responsibility) Fire Extinguisher	Yes		No	
	Yes		No	
	Yes		No	
	Yes		No	
	Yes		No	

Required Signatures:

Signature of Requestor

Plant Operations and Facilities Approval

Important Information

It is the responsibility of the requestor to complete the work as described above within the timeframe requested. This is strictly enforced.

Should the requestors be unable to complete the work within the timeframe requested, the requestor must return to the Command Centre office one (1) hour prior to completion time (as per above). All overtime incurred will be the responsibility of the contracted Company.

APPENDIX A

Other Appendices:

ID Badge-Access Card Building and Parking Access Request Form V20-20201118

Standard Construction Notices

Notice of Project

IPAC Activity Permit

Planned Shutdown Policy

Planned Shutdown Policy

Category:
Subject:
Issued By:
Approved By:
Rescinded Policies:
Harmonized:

Capital Expenditures
Subject
Program Committee
Program Vice President Title
ADMIN-CE-0140
☒ Yes ☐ No

Policy Number:
Date:
Revision Date (s):
Page

SHN-ADMIN-XYZ
May 2, 2022
Page 1 of 3

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PURPOSE:

- To ensure safety and consistency for planning and implementing scheduled facility service interruptions during construction and/or renovation projects across all hospital sites.

POLICY STATEMENT:

- Utility services are critical to the nature and operations of the hospital and should be treated with utmost priority to ensure uninterrupted distribution of services as much as possible. Planning of scheduled shutdowns will align with this priority or provide workarounds as agreed with Plant Operations and Facilities and/or Biomedical Engineering to ensure continuity of patient care.

DEFINITIONS:

- Planned shutdown – scheduled temporary termination of services to accommodate repairs or work.
- Utility services – includes mainly mechanical and electrical services. For the purposes of this policy, this will also include vertical transport systems, emergency calls, nurse calls, magnetic locks, telemetry system, medical gases, life and safety systems i.e. fire suppression system, and all other systems other than IT infrastructure.

PROCEDURE:

- SHUTDOWN FOR PLUMBING, HVAC OR ELECTRICAL SYSTEMS
 - The Project Mgt. Lead shall manage the Contractor during scheduled shutdowns of mechanical and electrical systems by ensuring policies and schedules are followed.
 - IPAC to be looped in for shutting down of hot/cold water lines in patient areas and the unit manager will also have to be part of planning for the schedule of the downtime.
 - Plant Operations and Facilities on the other hand, will act as the overall Lead and manage the sub-Contractor or the third-party Contractor (whichever the case may be) who will be shutting down the system, ensuring policies, methods of procedures and agreed upon schedules are followed.
 - Plant Operations and Facilities shall ensure system isolations are effective and communicated to all affected departments, or send an all staff email as required.
 - The Project Mgt. Lead will ensure that the Contractor provides a completed shutdown form (see Appendix A) and submits the request to Plant Operations and Facilities.
 - The Project Mgt. Lead, Plant Operations and Facilities, Unit Manager of Affected Unit (if any) and the Contractor will all mutually agree on the shutdown schedule.
 - The Project Mgt. Lead, General Contractor, and Plant Operations and Facilities Supervisor will develop a shutdown plan in accordance with the agreed upon scheduled downtime and methods of procedure.
 - The Plant Operations and Facilities Manager and/or Plant Operations and Facilities Director will send out the communicate to either all staff or affected parties re the planned shutdown. Questions/concerns relating to any aspect of the shutdown procedure will be directed to Plant Operations and Facilities. Questions/concerns relating to the project in general will be directed to the Project Mgt Lead.
 - Provision of alternate services, or the functionality of which, during a service interruption should be stipulated in the construction documents prior to tender. If the provision of which cannot be provided up the time of tender, alternate services will be provided by the Plant Operations and Facilities Manager, all related expenses to be capitalized as part of the project.

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- Plant Operations and Facilities to verify with the Contractor, check if all systems are back in order, then coordinate completion of which with the end users once the shutdown has been completed.
- SHUTDOWN FOR MEDICAL GASES
 - The Project Mgt. Lead shall manage the Contractor during scheduled shutdowns of medical gases.
 - The Project Mgt. Lead should also verify the medical gases distribution and obtain a report from a certified medical gas inspector accredited by the hospital as part of the shutdown planning.
 - The Project Mgt. Lead, Unit Manager, Contractor and Respiratory Therapy (RT) Manager shall negotiate a mutually agreed upon time for the interruption of the medical gas service.
 - The Unit Manager shall communicate the time and date of the proposed interruption to all affected parties including patient families at least 2 weeks in advance. Unit Manager shall plan and coordinate for alternate services, i.e. use of portable cylinders or machines, and such should be part of the notice.
 - The Project Mgt. Lead will ensure that the Contractor provides a completed shutdown form (see Appendix A) and submits the request to Plant Operations and Facilities. Plant Operations and Facilities will need at least seven (7) calendar days (CD) of advanced notice and reserves the right to extend the start of the shutdown schedule if not properly advised per advised time.
 - Unit Manager will provide the green light to the Plant Operations and Facilities Supervisor and Project Mgt. Lead and then in turn to the Contractor once the unit is ready to have the shutdown.
 - Plant Operations and Facilities to verify with the Contractor, check if all systems are for turnover to clinical operations. Once systems have been verified, the Plant Operations and Facilities Supervisor will then in turn inform the Unit Manager and Project Mgt. Lead once the medical gas systems are back on.
- FIRE ALARM AND/OR HEAT DETECTOR BY-PASS
 - Construction projects will have to have their fire alarms/heat detectors by-passed on a daily basis from start of the hoarding set-up to the end of construction clean.
 - Contractor will see the Plant Operator on site (Birchmount and General) or the Plant Operations and Facilities Supervisor (Centenary) for such requests, and fill out the form. A copy will be left with Plant Operations and Facilities and the other copy to be kept onsite for the Contractor's records.
 - Contractor shall provide duration of the by-pass, Contractor to notify the Plant Operator or Plant Operations and Facilities Supervisor should they require an extension.
 - Should an alarm get activated within the project site outside of the specified requested duration without proper notice, relative charges from Toronto Fire Services will be charged to the Contractor.
- SHUTDOWN FOR FIRE SUPPRESSION SYSTEMS
 - When a Contractor should require a fire suppression system to be deactivated, this should be planned along with Plant Operations and Facilities, the Project Mgt. Lead and Security.
 - Contractor staff will serve as support but will be responsible for Fire Watch within their construction area. Security can assign security staff to conduct the required fire watch (subject to availability) of which charges can be capitalized.
 - Plant Operations and Facilities will coordinate for the deactivation or drainage of the fire suppression system whether by internal forces or by a 3rd party contractor. Plant Operations and Facilities to notify the Project Mgt. Lead once the area has been isolated and ready for any addition/modification work.
 - Once work has been completed, Contractor to notify both Plant Operations and Facilities and the Project Mgt. Lead so the 3rd party contractor can reactivate the fire suppression system.
- SHUTDOWN FOR ELEVATORS
 - All elevator shutdown requirements shall be coursed through Plant Operations and Facilities.

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- Plan for which should always consider the least impact to hospital operations and should always consider for contingency in the event that elevators should break down within a bank.
- Putting an elevator on service for an equipment or material delivery or unit moves shall be requested through Plant Operations and Facilities. Service key to be provided by Plant Operations and Facilities to the Project Mgt. Lead.
- Elevator put in service or planned shutdown shall also take into consideration scheduled meal runs and emergency or code blue access.
- Once the delivery or move has transpired, the elevators should be safely put back into operations by the Contractor or Project Mgt. lead; key to be turned back over to Plant Operations and Facilities.
- **SHUTDOWN FOR COMMUNICATION AND SECURITY SYSTEMS**
 - All such works shall be coordinated with the Unit Manager of the affected unit, Plant Operations and Facilities, Security and Locating.
 - Unit Manager to plan for contingency and inform staff to dial in 5555 in case of emergencies should nurse call alarms are disabled.
 - Once work is complete, Project Mgt. Lead shall send notice to all parties.
- **SHUTDOWN OF MAIN UTILITIES, e.g. NATURAL GAS, SANITARY OR SEWER LINES**
 - For such a major undertaking, time for planning the scheduled shutdown should be properly appropriated depending on the scale of the requested shutdown. These should be properly coursed through in advance to and as led by Plant Operations and Facilities, who will also be sending the appropriate notice to the organization that will either be selective or collective in nature.
 - Such will also follow procedures for shutdown of plumbing, mechanical and electrical systems.
 - Plant Operations and Facilities to also do the coordination with City services as required.

COMPETENCY GUIDELINES (as applicable):

- Shutdown of mechanical systems and elevators can only be performed by the certified staffing of the preventive maintenance vendor in contract with SHN.
- Shutdown of medical gases, plumbing and electrical systems can only be performed by certified internal resources or certified external workforce.
- Shutdown of communication, security, telemetry systems shall only be performed by certified staffing of the contractor engaged by SHN, in coordination with either Plant Operations and Facilities or Biomedical Engineering, whichever case applies.

DOCUMENTATION:

- See Shutdown Request Form in Appendix A.

REVIEWED BY:

- Tyler Crocker
- Faaiza Ali

APPROVED BY:

- David Graham



SCARBOROUGH HEALTH NETWORK

Photo ID Badge / Access Card, Building and Parking Access Request Form

Please complete this form and have it approved by the Unit / Dept. Head.

All applicants (when applicable) must present a signed letter stating the official business in the Hospital and a Valid Photo ID (i.e., Drivers License, etc.)

Personal Information - PLEASE PRINT CLEARLY. Incomplete form can not be processed.

Employee / Identification Number: _____	Date of Application: _____
Last Name: _____	<input type="checkbox"/> Birchmount
First Name: _____	Primary Hospital <input type="checkbox"/> Centenary
Organization: _____	<input type="checkbox"/> General
Department / Unit: _____	Please select the one that applies to your affiliation with SHN
Position / Title: _____	<input type="checkbox"/> SHN Employee <input type="checkbox"/> Contract Staff <input type="checkbox"/> Student (Various)
Bus. Phone #: _____	<input type="checkbox"/> Medical Staff <input type="checkbox"/> Contractor <input type="checkbox"/> Instructor
Alternate Phone #: _____	<input type="checkbox"/> Resident <input type="checkbox"/> Tenant <input type="checkbox"/> Volunteer
E-Mail: _____	<input type="checkbox"/> Medical Student <input type="checkbox"/> Vendor <input type="checkbox"/> Spiritual Service Personnel
OHIP Billing (Physician) #: _____	<input type="checkbox"/> Board of Director

<input type="checkbox"/> New ID Badge	<input type="checkbox"/> Alternate Site ID Badge <small>An alternate hospital access card must be obtained at the alternate hospital to obtain cross site access</small>	Do you require parking access? <input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Card Status Change		* Employment Status: <input type="checkbox"/> Full-Time <input type="checkbox"/> Part-Time / Casual
<input type="checkbox"/> Lost <input type="checkbox"/> Damaged <input type="checkbox"/> Not Communicating	<input type="checkbox"/> Position / Title Change <input type="checkbox"/> Department / Unit Change <input type="checkbox"/> Name Change	
<input type="checkbox"/> Other: _____	Previous ID Badge #: _____	Previous Name: _____

A fee of \$10.00 applies to obtain a new ID badge for Students and Instructors.
Lost or Damaged ID Badge replacement incurs a fee of \$25.00, paid at the Security / Photo ID Office. All previous ID Badges must be returned to the Security Department.

Access Requirements - Please choose the section(s) that apply to your request.

<input type="checkbox"/> Provide General Access to Facility (Hospital Building Entrances)
Building Access <input type="checkbox"/> Other required access, please specify (i.e., doors, Locker Room 1 and / or areas where access is required)

Please put your initials in the box(s) of your choice:

Parking Access

<input type="checkbox"/> Activation	<input type="checkbox"/> Rate/Site Change	<input type="checkbox"/> Temporary Suspension	<input type="checkbox"/> Cancellation
Birchmount Hospital	Centenary Hospital	General Hospital	
<input type="checkbox"/> North Lot <small>(North Lot may not be available due to limited spaces)</small>	<input type="checkbox"/> North Lot	<input type="checkbox"/> Shoniker Lot	<input type="checkbox"/> Garage Lot <small>(Garage Lot may not be available due to limited spaces)</small>
<input type="checkbox"/> South Lot	<input type="checkbox"/> South Lot	<input type="checkbox"/> Doctors Lot	<input type="checkbox"/> Surface Lot

Only one parking fee accordance to SHN Parking Fee Policy is required for access to all three sites and the fee is for a block of 30 consecutive days.
Photo ID Badge / Access Card is for your own use only to park one vehicle at any given time in the parking lot - **PASSBACK NOT PERMITTED**

Parking fee includes HST: HST # 119142263

Vehicle Information	Vehicle	Make	Model	Colour	License Plate Number
	Vehicle # 1				
	Vehicle # 2				

Parking Fee Payment Plan - Please choose one of the following time blocks for parking fee payment.

<input type="checkbox"/> I prefer to pay through Payroll	I hereby authorize Scarborough Hospital Network to process parking fee deductions from my pay as per my request, as set out by the Hospital, a fee for my parking access and/or for lost or damaged ID Badge/Access Card replacement. Parking access will remain active once initiated, as such, the access holder must notify the parking office when parking access is no longer needed - SHN Employees - Fees as per SHN Parking Fee Policy
<input type="checkbox"/> Covered under Lease / Job agreement	Parking fee is covered under tenant's lease or individual's job agreement - Volunteers, Spiritual Service Personnel, Tenants and Contract Staff.
<input type="checkbox"/> I prefer to pay Monthly	Monthly parking access is for those who wish to utilize parking on monthly basis as needed. Fees are paid in cash, cheque, Debit Card or credit card at the Parking Office at the Birchmount, Centenary, or General Hospital in person. Offices are located on Level 2 across from the Drug Store at the Birchmount Hospital, on Level 2 beside Information Desk at the Centenary Hospital and in the Parking Garage at the General Hospital. Parking fee includes HST. The Students, Instructors and Contractors fee is \$66 / Month. Fees as per SHN Parking Fee Policy
<input type="checkbox"/> I prefer to be invoiced Quarterly	Invoice accounts are for those who have regular schedules at SHN for no less than one year and fees are billed in accordance with the preferred time block. An invoice account will remain active once initiated, as such, the account holder must notify the parking office when parking access is no longer needed. Fees are paid in cash, cheque, debit card or credit card at the Parking Office at the Birchmount, Centenary, or General Hospital. Parking fee includes HST - Medical Staff, Tenants and Contract Staff on Group Account. Fees as per SHN Parking Fee Policy
<input type="checkbox"/> I prefer to be invoiced Annually	

Bill to / Company Name: _____	Address: _____
City: _____	Province: _____
	Postal Code: _____

Cardholder Signature	Signed Date	Unit/Dept. Head Signature (Over Printed Name)	Signed Date
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To obtain Photo ID Badge / Access Card and access requirements, submit completed form to Security Office at the General Hospital by internal mailing or e-mail to idbadge@shn.ca

Parking access activation or cancellation request for an SHN employee / Invoice Account Holder that already has an ID badge, submit completed form to one of the SHN Parking Offices in person or e-mail to parking@shn.ca

For Security Department Use Only	Access card number issued: _____	Issued Date: _____
	Card being replaced returned to Security Department: Yes / No	
	Lost / damaged card replacement fee payment verified: Yes / No	
	Information Sent to Parking and Security Manager: Yes / No	Issued By: _____
	Information sent to Parking Office: Yes / No	
For Parking Department Use Only	Parking access assigned area / Parking Category: _____	Date Completed: _____
	<input type="checkbox"/> Information sent to Payroll	Sent Date: _____
		Completed by: _____

Permit requested by:		Date:	
Location of Construction/Renovation:		Project Start Date:	
Project Manager/Coordinator:		Estimated Duration:	
Capital/Facilities Project:		Project/Facilities Mgr Number:	
YES	CONSTRUCTION ACTIVITY	YES	INFECTION CONTROL RISK GROUP
	Type A: Inspection, non-invasive activity		Group 1: Low Risk
	Type B: Small scale, short duration, and minimal dust generating activities		Group 2: Medium Risk
	Type C: Activity generates moderate-high levels of dust, requires more than one work shift to complete		Group 3: Medium/High Risk
	Type D: Activity generating high levels of dust, major demolition and construction activities requiring consecutive work shifts to complete		Group 4: Highest Risk
CLASS I	Date:	Dust Control <ul style="list-style-type: none"> Immediately replace tiles displaced for visual inspection Vacuum work area if there is visible dust Plumbing Activities <ul style="list-style-type: none"> Schedule water interruptions during low activity (e.g. evenings if at all possible) Flush water lines prior to reuse Observe for discolored water Ensure water temperature meets the standards set by the health care facility Maintain as dry an environment as possible and report any water leaks that occur to walls and substructures 	
	Initial:		
CLASS II	Date:	Dust Control <ul style="list-style-type: none"> Wet mop and/or vacuum with HEPA filtered vacuum as necessary Use drop sheets to control dust Water mist work surfaces while cutting Seal windows and unused doors with duct tape Seal air vents in construction/renovation area Place dust mat at entrance to and exit from work areas Ventilation <ul style="list-style-type: none"> Disable the ventilation system in the construction/renovation area until the project is complete- Monitor need to change and/or clean filters in construction or renovation area Debris Removal & Cleanup <ul style="list-style-type: none"> Contain debris in covered containers or cover with a moistened sheet before transporting for disposal Plumbing Activities <ul style="list-style-type: none"> Schedule water interruptions during low activity (e.g. evenings if at all possible) Flush water lines prior to reuse Observe for discolored water Ensure water temperature meets the standards set by the health care facility Maintain as dry an environment as possible and report any water leaks that occur to walls and substructures 	
	Initial:		
CLASS III	Date:	Dust Control <ul style="list-style-type: none"> Erect an impermeable dust barrier from true ceiling (includes area above false ceilings) to the floor consisting of 2 layers of 6 mil fire-retardant polyethylene and gypsum wallboard protection approved by the multidisciplinary team. Ensure that negative air units are functioning properly and that the HEPA filters are changed regularly –provide documentation Ensure that windows, doors, plumbing penetrations, electrical outlets and intake and exhaust vents are properly sealed with plastic and duct taped within the construction/renovation area Vacuum air ducts and spaces above ceilings if necessary Do not remove dust barrier until the project is complete and the area has been cleaned thoroughly and inspected Remove dust barrier carefully to minimize spreading dust and other debris particles associated with the construction project Ventilation <ul style="list-style-type: none"> Maintain negative pressure within construction zone by using portable HEPA equipped air filtration units Ensure air is exhausted directly outside and away from intake vents or filtered through a HEPA filter before being re-circulated Ensure ventilation system is functioning properly and is cleaned if contaminated by soil or dust after construction or renovation project is complete Debris Removal & Cleanup <ul style="list-style-type: none"> Remove debris at the end of the work day whenever possible Vacuum work area with HEPA filtered vacuums daily or more frequently if needed Contain debris in covered containers or cover with a moistened sheet before transporting for disposal Plumbing Activities <ul style="list-style-type: none"> Flush water lines at construction or renovation site and adjacent patient care areas before patients are readmitted Schedule water interruptions during low activity (e.g. evenings if at all possible) Flush water lines prior to reuse; observe for discoloured water Ensure water temperature meets the standards set by the health care facility Maintain as dry an environment as possible and report any water leaks that occur to walls and substructures 	

CLASS IV	Date:	<p>Dust Control</p> <ul style="list-style-type: none"> • Before starting the construction project erect an impermeable dust barrier that also has an anteroom • Place a walk-off mat outside the anteroom in patient care areas and inside the anteroom to trap dust from the workers' shoes, equipment and debris that leaves the construction zone • Ensure that construction workers leave the construction zone through the anteroom so they can be vacuumed with a HEPA filtered vacuum cleaner before leaving the work site; or that they wear cloth or paper coveralls that are removed each time they leave the work site • Direct all personnel entering the construction zone to wear shoe covers • Ensure that construction workers change the shoe covers each time they leave the work site • Repair holes in walls within 8 hours or seal them temporarily • Wet mop with hospital grade disinfectant • Do not remove dust barrier until the project is complete and the area has been cleaned thoroughly and inspected • Remove dust barrier carefully to minimize spreading dust and other debris particles associated with the construction project • Ensure that windows, doors, plumbing penetrations, electrical outlets and intake and exhaust vents are properly sealed with plastic and duct taped within the construction/ renovation area • Vacuum air ducts and spaces above ceilings if necessary <p>Ventilation</p> <ul style="list-style-type: none"> • Ensure negative pressure is maintained within the anteroom and construction zone • Ensure that negative air units are functioning properly and that the HEPA filters are changed regularly -provide documentation • Ensure ventilation systems are working properly in adjacent areas • Review ventilation system requirements in the construction area with ICP to ensure system is appropriate and is functioning properly <p>Debris Removal & Cleanup</p> <ul style="list-style-type: none"> • Remove debris at the end of the work day • Vacuum work area with HEPA filtered vacuums daily or more frequently if needed • Contain debris in covered containers or cover with a moistened sheet before transporting for disposal <p>Evaluation</p> <ul style="list-style-type: none"> • Review infection control measures with other members of the planning team or delegate to evaluate their effectiveness and identify problems at the end of the construction project <p>Plumbing Activities</p> <ul style="list-style-type: none"> • Flush water lines at construction or renovation site and adjacent patient care areas before patients are readmitted • Schedule water interruptions during low activity (e.g. evenings if at all possible) • Flush water lines prior to reuse • Observe for discoloured water • Ensure water temperature meets the standards set by the health care facility • Maintain as dry an environment as possible and report any water leaks that occur to walls and substructures 	
	Initial:		
Scope of Work To be Done – (This area is to be filled in by the Contractor)			
Additional Requirements (This area is to be filled in by infection Control)			
<table border="1"> <tr> <td> Permit Issued by: Project Manager/Coordinator or Facilities Manager Date: </td> <td> Permit Approved by: Manager/Delegate, Infection Prevention and Control Date: </td> </tr> </table>		Permit Issued by: Project Manager/Coordinator or Facilities Manager Date:	Permit Approved by: Manager/Delegate, Infection Prevention and Control Date:
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