



Halifax
Regional Centre for Education

RFP #4242

Roof Replacement Ellenvale Junior High School

RFP Closing Date: Thursday June 13th, 2024
RFP Closing Time: 2:00 PM (ATL)
Submission Email: hrcetenders@hrce.ca

Ready-for-Takeover Date: Friday - August 30, 2024

HRCE Procurement Contact:
Nancy Rideout, Purchasing Manager
Tel: (902) 464-2000 ext 2222
Email: nrideout@hrce.ca

Operations Contact:
Gary Mannette, Project Manager
Cell: (902) 497-8542
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School Location:
Ellenvale Junior High School
88 Belle Vista Dr
Dartmouth, NS B2W 2X7

Mandatory Site Meeting for Bidders:
Tuesday June 4th, 2024 at 4:00pm
Ellenvale Junior High School
Please meet at School Entrance

RFP submissions are to be submitted by email to: hrcetenders@hrce.ca

RFP documents are available for download from the HRCE's Website:
<https://www.hrce.ca/about-hrce/financial-services/tenders/tender-listing>

In the light of COVID-19 and future pandemics, all vendors are required to follow the guidelines set in place by Nova Scotia Health Authority. Potential risks such as restricted accessibility to schools and buildings of the Halifax Regional Centre for Education (HRCE), inability to complete work on a timely manner due to social distancing, disabled supply chains which will result in delivery delays of raw materials and finished goods, labour shortages and additional storage costs should be clearly communicated with the HRCE Personnel on a timely manner to ensure an amicable solution can be agreed between the HRCE and the vendor/contractor. The HRCE will not be liable for any direct or indirect loss incurred due to a pandemic.

The Terms and Conditions of the RFP Package, including but not limited to the Contract Type and Supplementary Conditions have been modified.

It is the Proponent's Responsibility to review all sections of the RFP prior to submitting a Proposal/Bid.

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SPECIFICATIONS 25 pages

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06 10 00 Rough Carpentry

07 **THERMAL AND MOISTURE PROTECTION**
07 52 00 Two-Ply Modified Bitumen Roofing System
07 62 00 Metal Flashing and Trim
07 72 33 Roof Hatches

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22 13 00 Piping and Drainage

DRAWING LIST 4 pages

COVER ARCHITECTURE49
A-101 PARTIAL ROOF PLAN
A-102 ROOFING DETAILS
A-103 ROOFING DETAILS

END OF DOCUMENT1 Page

SECTION 00 00 15 - DESCRIPTION OF WORK & LIST OF DRAWINGS

1. General

- 1.1 The work of this contract includes the provision of all materials, labour and equipment necessary to complete the **Roof Replacement at Ellenvale Junior High School**, to remove the existing Roof and materials in areas as noted on the drawings and specifications prepared by **Architecture49**.
- 1.2 It is the intent of the Halifax Regional Centre for Education (HRCE) to have all work completed, to the point of Ready-for-Takeover, prior to **August 30, 2024**. It is expected that a timely award of this contract will enable the Contractor to facilitate shop drawing review and ordering of materials to allow commencement of work immediately after contract execution.
- 1.3 The whole of the work shall agree in all particulars with the levels, measurements and details contained in the drawings accompanying this specification and with such other drawings or information as may from time to time be supplied by the HRCE or may be supplied by the Contractor and reviewed by the HRCE.
- 1.4 In relation to the hours of work: Work for the HRCE is to be completed during hours when the schools are unoccupied, unless otherwise authorized in writing by the Project Manager (Operations Contact person) or designate. Hours of work shall comply with the local ordinances and bylaws for each site. (Refer Section 00 41 13, Section 3.7)

2. Drawings

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END OF SECTION

SECTION 00 05 00 - LIST OF CONSULTANTS

Owner: Halifax Regional Centre for Education
33 Spectacle Lake Drive
Dartmouth, NS B3B 1X7

Nancy Rideout, Purchasing Manager
Office: (902) 464-2000 ext 2222
nrideout@hrce.ca

Consultant: Architecture49
1640 Market St
Halifax, NS B3J 2C8

Jim Wade
Office: (902) 536-1226
Jim.wade@architecture49.com

END OF SECTION

SECTION 00 21 13 – INFORMATION FOR PROPONENTS

Invitation:

1. Proposal Call

- 1.1. The Halifax Regional Centre for Education (HRCE) will receive offers in the form of a two-file proposal from proponents which is signed and electronically received on or before the date and time specified on the cover sheet of this document. The email address to submit submissions and amendments is hrcetenders@hrce.ca. Both files should be submitted in Adobe (.pdf) format. If the electronic submission is larger than 20MB, proponents have the option of sharing files from google drive to hrcetenders@gnspe.ca. If you encounter difficulties kindly contact the HRCE Procurement team for further clarification.
- 1.2. Proposals received after the closing time will not be considered. The HRCE deems the submission date and time to be the email received date and time. Please ensure to allow sufficient time for your submission to be received by the HRCE before the 2pm close. Please consider that large files may require more time.
- 1.3. Proponents are to submit completed Request for Proposal (RFP) documents by email.

The technical submission electronic file should be named:

“Technical Submission_4242_Proponent Name”.

The second file (Price Submission) should be named:

“Price Submission_4242_Proponent Name”.

There must be no reference to the bid price within the technical submission.

Proponents can refer to item 11 in this section for more detailed submission instructions.

- 1.4. Proposals will be opened at the time indicated on the cover sheet of this document. Public openings are no longer held for any Tenders or RFPs relating to goods, services or construction for the HRCE. **The technical submission will be the only file opened during the RFP closing.** All proposal submissions are subject to evaluation after opening and before award of contract. The successful proponent and award amount will be posted on the Procurement Services website (<http://novascotia.ca/tenders/tenders/ns-tenders.aspx>) after award.

- 1.5. Amendments to the submitted offer will be permitted if received by email prior to bid closing and if endorsed by the same party or parties who signed and executed the offer.

If the amendment relates to the technical submission, the electronic file should be named
“Technical Submission Amendment_4242_Proponent Name”.

If the amendment relates to the price submission, the file should be named:

“Price Submission Amendment_4242_Proponent Name”.

The price amendment file submission should be the signed Price Amendment Form (Section 00 41 73) and shall not disclose either the original or revised total price.

- 1.6. Bid submissions **will not** be accepted by fax, mail, courier or hand delivery.

2. Intent

- 2.1. The intent of this Request for Proposals (RFP) is to obtain an offer to perform all work associated with **RFP #4242, Roof Replacement** at **Ellenvale Junior High School** for a Stipulated Price Contract in accordance with the Contract Documents.
- 2.2. The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 – 2020 is available upon request and will form part of the contract documents.
- 2.3. The HRCE Supplementary General Conditions for the CCDC-2, 2020, applicable to this work is available for review under Section 0073 00 of the RFP document.
- 2.4. Ready-for-Takeover (RFT) of the project is to be achieved on or before **August 30, 2024**, provided the contract is awarded within fifteen (15) business days after the RFP closing.
- 2.4.1. If the contract is not awarded within fifteen (15) business days of closing, the Ready-for-Takeover Date will be extended by one (1) business day, for every business day that passes, until the contract has been awarded.
- 2.4.2. Receipt of the award letter by the successful contractor does not constitute approval to begin work on site.
- 2.5. The HRCE does not guarantee the award of all areas, phases or any portion thereof.
- 2.6. The HRCE reserves the right to award individual areas or phases to one contractor or between multiple contractors.
- 2.7. The HRCE reserves the right to reduce the scope of work if the stipulated bid amount exceeds the budget for the relevant project.

3. Scope of work

- 3.1. Refer to Section 00 00 15 – Description of Work and List of Drawings and Section 01 11 00 Summary of Work.

4. Availability

- 4.1. RFP documents are available for download on the HRCE website:
<https://www.hrce.ca/about-hrce/financial-services/tenders/tender-listing>
- 4.2. RFP documents are made available only for the purpose of obtaining offers for this project. Their use does not confer a license or grant for other purposes.
- 4.3. The HRCE is not responsible for accuracy of documents obtained from any other source.

5. Examination

- 5.1. RFP documents are provided to the Construction Association of Nova Scotia (CANS).
- 5.2. Upon receipt of RFP documents, proponents are to verify that documents are complete.
- 5.3. Bidders are responsible to retrieve all RFP documents from the HRCE website and fully review the RFP requirements prior to the preparation of a bid submission.

6. Clarification and Addenda

- 6.1. Proponents must notify the Purchasing Manager, by email at nrideout@hrce.ca no less than **five (5)** working days before the RFP Closing regarding any questions, omissions, errors or ambiguities found in the documents. If HRCE considers that correction, explanation or interpretation is necessary, an addendum will be posted on the HRCE website.
- 6.2. Addenda will be issued no less than three (3) business days before the RFP closing date and will form part of the Contract Documents.
- 6.3. All RFP information must be confirmed by written addenda. The HRCE and its representatives shall not be bound by or be liable for any representation or information provided verbally. Information obtained by any other source is not official and will not bind the HRCE.
- 6.4. Proponents are to complete Price Submission Form (section 00 41 13) acknowledging each addendum that was issued.
- 6.5. Where the HRCE publishes an Addendum modifying the terms of the posting documents, or changing the Project or Contract Documents in any manner, the HRCE shall not be liable for any expense, cost, loss, or any form of damage or damages incurred or suffered; whether directly or indirectly, by any Supplier or any other person in connection with or in any way relating to or resulting from the publication of an Addendum, regardless of whether the publication occurs prior to or after a Supplier has submitted their bid submission.
- 6.6. All Addenda issued by HRCE shall become part of the Contract Documents, unless specifically excluded from the Contract Documents in writing. Addenda shall be allowed for in determining the total contract price.

7. Product/System Options

- 7.1.** Alternatives to specified products and systems will only be considered during the bidding period in the manner prescribed below.
- 7.1.1.** Where the RFP documents stipulate a particular product, alternatives may be considered by the Consultant up to five (5) working days before the RFP closing date and time. Bidders must forward their written requests by email to nrideout@hrce.ca. Requests will be forward to the appropriate person(s) for review.
- 7.2.** The submission must provide sufficient information to enable the Consultant to determine acceptability of such products. Request for an alternate product/system must be accompanied with:
- 7.2.1.** information about how the request affects other work in order to accommodate each alternate;
- 7.2.2.** the dollar amount of additions to or reductions from the Price Submission, including revisions to other work.
- 7.2.3.** A later claim by the bidder for an addition to the contract price because of changes in work necessitated by use of alternates shall not be considered.
- 7.3.** When a request to substitute a product is made and pursuant to consultation with the Consultant, HRCE may approve or disapprove the substitution. The bidder making the request will be notified of the HRCE's decision and if the alternate is approved, the HRCE will issue an addendum.
- 7.4.** Alternates must be submitted in the above manner; otherwise, they will not be accepted.

8. Mandatory Bidders' Site Meeting (Site Assessment)

- 8.1.** Bidders will be deemed to have familiarized themselves with the existing project site, working conditions and all other conditions which may affect performance of the Contract. No plea of ignorance of such conditions as a result of failure to make all necessary examinations will be accepted as a basis for any claims for extra compensation or an extension of time.
- 8.1.1.** A mandatory bidders' site meeting has been scheduled as per the information on the cover sheet of this document. All bidders are required to attend. Representatives of HRCE and the Consultant will be in attendance.
- 8.1.2.** Bidders must register their presence with the HRCE stating the name of the contractor they represent. Failure to attend and register will lead to non-acceptance of the proposal by HRCE. HRCE recommends that interested bidders ensure that their proposed subcontractors attend the mandatory site meeting.

9. Bidders Registration

- 9.1.** The successful contractor and sub-contractors must comply with the Nova Scotia Corporations Registration Act and/or Partnerships and Business Name Registration Act, or equivalent, before a contract is awarded.

10. Qualifications (Subcontractors/Other Tradespersons/Individuals)

- 10.1.** Bidders are fully responsible to the HRCE for the acts/omissions of subcontractors and of persons directly or indirectly employed or retained by them. Nothing contained in the contract documents shall create any contractual relation between any subcontractor and the HRCE. Subcontracting the contract shall not relieve the Bidder from any contractual obligations.
- 10.2.** Bidders must provide subcontractors with a copy of the RFP documents making subcontractors aware that the HRCE is not responsible for any payments to subcontractors, and that all actions, directions or claims are solely between the bidder and the subcontractor.
- 10.3.** The Contract, or any portion thereof, shall not be assigned nor sub-contracted without the prior written approval of HRCE, which approval may be withheld in the HRCE's sole discretion. When sub-contracting, successful bidder(s) must be prepared, if requested, to provide copies of billings from subcontractors.
- 10.4.** Successful bidder(s) shall only use additional subcontractors during the course of the contract with the prior written approval of the HRCE.
- 10.5.** The successful bidder(s) shall not re-assign the role of Project Manager to another individual other than the proposed Project Manager as indicated in the technical submission, without prior written approval from the HRCE.
- 10.6.** The successful bidder(s) shall at all times enforce strict discipline and good order among their employees and subcontractors and shall avoid any unfit person or any person not skilled in the work assigned to the employee.
- 10.7.** HRCE reserves the right to reject a proposed sub-contractor for a reasonable cause.
- 10.8.** Refer to GC 3.6 of CCDC-2020.

11. PROPOSAL SUBMISSION

11.1. RFP Proposal Package - A complete proposal package is comprised of the elements below:

11.2. Technical Submission and Price Submission - General

- 11.2.1.** Each proposal shall include a signed technical submission file and a signed price submission file, clearly labelled as previously instructed in Section 00 21 13, item 1.3.
- 11.2.2.** Both the Technical Submission files, and the separate Price Submission file, shall be submitted simultaneously.
- 11.2.3.** The Technical Submission file contents must not contain any reference to the bid price being offered for this project.
- 11.2.4.** The email subject line or body must identify the name of the proponent/company and the RFP name and number.
- 11.2.5.** Proponents shall be solely responsible for the delivery of their proposals in the manner and time prescribed.

11.3. Technical Submission Contents

11.3.1. Technical submissions shall be submitted in a legible format, not to exceed 20 pages. Submissions will be on the proponent’s letterhead and shall contain an authorized signature. Proposals shall be submitted in English, and shall be specifically prepared to meet the requirements of this project.

Total RFP Scoring:

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

The technical submission response shall be organized into four sections:

Section I.	Project Experience and References
Section II.	Team Composition
Section III.	Management of Project Specific Risk
Section IV.	Schedule of Work

I. PROJECT EXPERIENCE AND REFERENCES.

The proponent is required to provide a detailed summary of their company's experience within the past sixty (60) months, by describing three (3) Roof Replacement projects for an educational/commercial institution.

These projects should be within a 100 km radius of the Halifax Regional Municipality. These projects should be similar in nature, complexity and value to the requirements specified in this RFP (see Section 00 00 15).

If a proponent has completed projects for the HRCE, they are required to include the two most recent HRCE projects in this section (regardless of the date completed). It is the bidder's responsibility to source HRCE project information requested in this section.

Please note if the proponent fails to include relevant HRCE projects, this will negatively impact their technical score. **If a proponent has not completed prior work (at any time) for the HRCE, then they may select projects of their choosing within the other stipulated parameters.**

> For each of the three projects listed, the proponent is asked to provide:

- 1) the company name,
- 2) a brief description of the project,
- 3) the name of the project manager,
- 4) the dollar value of the project.
- 5) A reference contact name and title for this project, and
- 6) their email and phone number.

For HRCE projects, please provide the HRCE Project Manager's name; prior consent is not required.

Please ensure that non-HRCE references are aware they will be contacted, and that prior consent to be a reference was obtained.

RFP Scoring for this section:

SECTION I. PROJECT EXPERIENCE, BASED ON REFERENCE FEEDBACK		
Project 1	Project met budget and schedule.	2.00
	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
Total Points Available for this Project		5.00
Project 2	Project met budget and schedule.	2.00
	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
Total Points Available for this Project		5.00
Project 3	Project met budget and schedule.	2.00
	Good quality work and product.	1.00
	Well managed project and good communications.	2.00
Total Points Available for this Project		5.00
Total Points Available for Section I.		15.00

II. TEAM COMPOSITION.

The proponent is required to identify the key personnel who will be assigned to this project, these key personnel must remain with the project until completion. Please provide each employee’s name, title/role, and years of related experience.

Proponents are required to provide a detailed resume for the proposed Project Manager outlining professional qualifications and years of experience.

Please indicate the percentage of their time that will be committed to this project.

An ***example*** of a time commitment for this project could be:

Commitment	Key Personnel
100%	Foreman
50%	Site Supervisor
20%	Project Manager

RFP Scoring for this section is:

SECTION II. TEAM COMPOSITION	Score
Does the Project Manager have a minimum of 3 years of relevant experience?	2.00
Was a listing of key team members provided?	1.00
Was the percentage of commitment indicated and adequate?	2.00
Total Points Available for Section II.	5.00

III. MANAGEMENT OF PROJECT SPECIFIC RISK

Proponents shall identify a minimum of three (3) risks associated with this specific project. Risks that their company could be faced with related to the scope of work for this project. Proponents shall state the risk, risk mitigation strategy, responsible parties, and the impact to schedule or budget.

An example of a Project Specific Risk could be:

Risk Register Example			
Risk	Mitigation	Responsibility	Impact
Specified materials have long lead times.	1. Expedite delivery if available. 2. Source alternative equivalent materials that are readily available.	Contractor. Client and Consultant approval required.	Expedited delivery or alternative materials may increase cost and impact budget. Without mitigation the schedule will be impacted.

Standard safety risks covered by Safe Work Practices are not to be referenced here. The HRCE is looking for assurances that risks identified through the mandatory site meeting are identified and will be mitigated, and that potential delays or other risks are disclosed in the proposal.

RFP Scoring for this section is:

SECTION III. MANAGEMENT OF RISKS ASSOCIATED WITH THIS SPECIFIC PROJECT	Score
Did the proponent detail the 3 Project Specific Risks with mitigation strategies?	3.00
Are risk management responsibilities clearly identified and assigned?	1.00
Were appropriate risk impacts provided for the 3 stated risks?	1.00
Total Points Available for Section III.	5.00

IV. SCHEDULE OF WORK

Please provide a Gantt Chart that includes an appropriate amount of detail around the planning and scheduling needs for this project. The Gantt Chart should contain all the key activities and align with the work schedule. A successfully prepared Gantt Chart provides a clear visual representation of how the project and required tasks will be completed.

If the Ready for Takeover Date cannot be met, please communicate this to procurement as an RFI well before RFP close.

The HRCE expects to award this work within 15 days of close. Please ensure that the proposed schedule of work aligns with that timeframe.

RFP Scoring for this section is:

SECTION IV. SCHEDULE OF WORK	Score
Does the Gantt Chart include all required components? Is the schedule reasonable?	2.00
Does the schedule indicate project completion <i>before</i> the Ready for Takeover date? <i>If the Ready for Takeover date cannot be met, please submit a RFI prior to RFP close.</i>	3.00
Total Points Available for Section IV.	5.00

11.4. Price Submission Contents

11.4.1 The Price Submission is to be submitted on the forms provided by the HRCE (Section 00 41 13 – Price Submission Form). These forms are to be completed in full, with an authorized signature and corporate seal as applicable. The completed form shall be without interlineations, alterations or erasures.

Proponents are advised that the HRCE may request original documents be sent to the HRCE office for further review. Price submissions sent by fax, mail or hand delivered will not be accepted.

11.4.2 The pricing details are to be clearly indicated. The total contract price in both numbers (dollars and cents) and written words must be entered. Should there be a discrepancy between the two, the written words shall prevail.

11.4.1. The executed pricing offer is to be submitted on the forms **together with a scanned copy of the required bid security** by email.

11.4.2. Improperly completed information, and/or irregularities in the bid security, may be cause to declare the submission non-compliant.

The omission of bid security from the bid submission will result in the submission being deemed as non-compliant (Refer Section 14.1.10).

11.5. Proposal Evaluation

11.5.1. Evaluation Process – Compliant proposals will be evaluated, first during Phase A, and those meeting the minimum qualifying score under Phase A will then be evaluated in Phase B, with a final score determined in Phase C.

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

11.5.2. Proposals that do not meet the minimum qualifying score for Phase A will not be given further consideration.

11.5.3. Proposals will be evaluated and scored by an evaluation team comprised of a minimum of three (3) representatives of the HRCE. The degree to which a proposal meets the proposal requirements will be determined at the sole discretion of the HRCE evaluation team.

11.5.4. Phase A – Technical Submission – The Technical Submission for compliant proposals will be evaluated using the evaluation criteria set out in the table below. Scores will be recorded for each criterion (rounded to two (2) decimal points) and a total qualifying score will be determined.

Refer 11.3.1	Phase A - Evaluation Criteria Technical Submission	Score
Section I.	Project Experience and References	15.00
Section II.	Team Composition	5.00
Section III.	Management of Project Specific Risks	5.00
Section IV.	Schedule of Work	5.00
Total Phase A - Potential total score - Technical Submission		30.00
Minimum score needed to pass technical		15.00

A minimum qualifying score of 15.00 points is required in Phase A for the proposal to be given further consideration.

All technical submissions that have met the minimum qualifying score will proceed to Phase B - Price Submission.

Technical submissions that score below the minimum qualifying score will not proceed further in the RFP evaluation process.

11.5.5. Phase B - Price Submission - Price Submission files for proponents whose Technical Submission have received fifteen (15.00) points or greater will be opened.

The Price Submission will have a weight of seventy (70.00) points.

Price submissions will be evaluated, and a Phase B score will be assigned to each proponent by using a proximity to lowest price method. In this method, proponents will be awarded points based on how close their total price submitted compares with the lowest cost of all total submissions.

Price Submissions will be Evaluated based on the Proponent’s Lump Sum Price.

For example:

Formula: Price Score = % value of score x (Low bid ÷ Your bid)

Example for calculation: Bid Pricing Received

Company P	Company Q	Company R	Company S	Company T
\$115,000	\$135,000	\$185,000	\$165,000	\$180,000

Calculation of Pricing Score for Company S:

Phase B Score = 70 points x (\$115,000 ÷ \$165,000) = 48.79 points

The Total Score (Phase C) will be calculated by adding together Phase A + Phase B scores.

11.5.6. The proponent who has the highest **TOTAL SCORE** (Phase C calculation), will be deemed to be the successful proponent, subject to other provisions herein, including Section 16.5.

Phase A – Technical Score	30 Points
Phase B – Pricing Score	70 Points
Phase C - Total RFP Score	100 Points

12. Conditions of the RFP Process

12.1. Proponents shall take full cognizance of content of all Contract Documents in preparation of their proposal. Section 00 41 13 – Price Submission Form, Subsection 5.0 references a complete list of Contract Documents.

13. Amendment or Withdrawal of Proposals

- 13.1.** Proposal packages may be **withdrawn** from the RFP process in writing by email notification sent to the submission email address, prior to date and time of closing.
- 13.2.** As previously stated in Section 00 21 13, item 1.6 - Amendments to the submitted offer will be permitted if received by email prior to the RFP closing time and if endorsed by the same party or parties who signed and executed the offer. If the amendment relates to the technical submission, it must be labeled "Technical Submission Amendment" along with the RFP number of the project and the company name. If the amendment relates to the price submission, it must be labeled "Price Submission Amendment" along with the RFP number of the project and the company name. The price amendment file must include the signed "Price Amendment Form" (Section 00 41 73).
- 13.3.** A single page Price Amendment Form is provided immediately following the Price Submission Forms (Section 00 41 73).
 - 13.3.1.1.** The Price Amendment Form provided is the standard master form for submission of any price amendments for this project.
 - 13.3.1.2.** The Price Amendment Form must be copied and completed, as directed, for any price amendments submitted.
- 13.4.** Price amendments shall not disclose either original or revised total price.

14. Proposal Ineligibility (Reason for Rejection)

- 14.1.** HRCE may reject a proposal which has been received prior to the closing time where:
 - 14.1.1.** The two file (electronic) system (Technical Submission and Price Submission) is not followed.
 - 14.1.2.** The price submission is not submitted on the required forms (Section 00 41 13) included herein.
 - 14.1.3.** The proposal is submitted by facsimile or regular mail or hand delivery.
 - 14.1.4.** There are omissions of information that the HRCE in its sole discretion deems to be significant.
 - 14.1.5.** The technical submission or price submission form is not signed as required.
 - 14.1.6.** The proposal has conditions attached which are not authorized by the invitation to bid.
 - 14.1.7.** The proposal fails to meet one or more standards specified in the invitation to bid.
 - 14.1.8.** All addenda have not been acknowledged.
 - 14.1.9.** Any other defect which, in the opinion of the HRCE brings the meaning of the proposal into question.

14.1.10. The required bid security is not provided within the Price Submission file.

14.1.11. Proponent failed to attend bidders' mandatory site meeting.

14.1.12. Proponent failed to list relevant HRCE project(s) in their Technical submission.

15. Communications Affecting Bids

15.1. Transmissions, including, but not limited to facsimile transmission:

15.1.1. The technical submission or price submission forms submitted by mail, fax or courier will not be accepted.

16. Right to Accept or Reject any Proposal

16.1. The HRCE reserves the right to reject any proposal in its sole and absolute discretion for any reason whatsoever and the HRCE will not necessarily accept the lowest bid.

16.2. The HRCE specifically reserves the right to reject all proposals if none are considered to be satisfactory in the HRCE's sole and absolute discretion and, in that event, at its option, to call for additional proposals.

16.3. Without limiting the generality of any other provision herein, the HRCE reserves the right to accept or reject any proposal in accordance with item #14 above (Proposal Ineligibility).

16.4. Notwithstanding the above, the HRCE shall be entitled, in its sole and absolute discretion, to waive any irregularity, informality or non-conformance with these instructions in any proposal received by the HRCE. The HRCE reserves the right to reject any or all proposals, or to accept any proposal, or portion thereof, deemed in its best interest.

16.5. In the event that more than one proponent achieves an identical final total score within two decimal places in Phase C, the HRCE will flip a coin to determine the successful contractor.

16.6. No term or condition shall be implied, based upon any industry or trade practice or custom or in a practice or policy of the HRCE or otherwise, which is inconsistent or conflicts with the provisions contained in these instructions.

17. Right to Cancel Competition/No Award

17.1. Issuing a RFP/RFT implies no obligation on HRCE to accept any submission, or a portion of any submission. The lowest or any RFP/RFT submission will not necessarily be accepted.

17.2. Without limiting the generality of the foregoing, an RFP/RFT may be cancelled in whole or in part by HRCE in its sole discretion, whether before or after the time for RFP/RFT submissions has closed, when:

17.2.1. The RFP/RFT submission price exceeds the funds allocated for the purchase;

17.2.2. There has been a material change in the procurement requirements after the RFP/RFT has been issued;

17.2.3. Information has been received by HRCE after issuance of the RFP/RFT that HRCE believes has materially altered the procurement or the need of HRCE for the procurement; or

17.2.4. There was insufficient competition in order to provide the level of service, quality of goods or pricing required.

17.3. If no compliant RFP/RFT submission is received in response to an RFP/RFT, the HRCE reserves the right to enter into negotiations with one or more suppliers in order to complete the procurement or to reject all Bids and re-issue the RFP/RFT on new or modified RFP/RFT Documents.

17.4. HRCE will be the sole judge of whether there is sufficient justification to cancel any RFP/RFT.

17.5. No action or liability will lie or reside against HRCE in its exercise of its rights under this section

18. Construction Contract Guidelines

18.1. The printed policies of the Nova Scotia Construction Guidelines dated May 18, 2006 (or latest revisions) are applicable to these RFP documents.

19. Submission and Security Forms – Signatures

19.1. All Price Submission forms, bid security forms and performance assurance forms **must** bear the Bidder's original signature and name HRCE as the insured.

20. Bid Security

20.1. Proponents must submit within the sealed Price Submission file, one of the following: bid security in the form of a certified cheque, Irrevocable Letter of Credit, or Bid Bond on CCDC Form 220, in the amount of ten percent (10%) of the Bid Price made payable to or naming HRCE (as obligee). This bid security **must** accompany the Price Submission as an electronic file. HRCE will request an original hard copy from the successful proponent as required.

20.2. Where bid bond is provided as bid security:

20.2.1. The bond must be provided on the standard CCDC Bid Bond Form (latest version) in the amount of not less than ten percent (10%) of the Bid Price.

20.2.2. The bond must be submitted by the general contractor bidder, signed and sealed by the principal (Contractor) and Surety and shall be with an established Surety Company satisfactory to and approved by the HRCE.

20.2.3. The cost of providing the Bid Bond must be included in the Bid Price.

20.2.4. A legible scanned copy of the bid bond or an electronic bid bond shall be submitted with the bid via email. If requested by the HRCE, the vendor will provide the original bid bond without delay.

20.3. Where a certified cheque or a bank draft is provided as bid security:

20.3.1. The certified cheque or bank draft must be endorsed in the name of HRCE, for a sum not less than ten percent (10%) of the amount of the Bid Price.

20.3.2. The cost of providing the certified cheque or bank draft must be included in the Bid Price.

20.4. Where the Irrevocable Standby Letter of Credit is used as bid security:

20.4.1. The letter must be endorsed in the name of HRCE, for a sum not less than ten percent (10%) of the Bid Price

20.4.2. The Irrevocable Standby Letter of Credit shall be issued by a certified financial institution subject to the Uniform Custom and Practices for Documentary Credit (1993 revision or latest revision), International Chamber of Commerce (Publication No. 500).

20.4.3. The cost of providing the letter must be included in the Bid Price.

20.4.4. **A legible scanned copy of the bid bond or an electronic bid bond can be submitted with the bid via email. If requested by the HRCE, the vendor is required to provide the original bid bond without delay.**

20.5. Return of Bid Security:

20.5.1. The bid security of the unsuccessful proposers will be returned to them after the contract has been signed, or previous to such time, at the discretion of HRCE.

20.5.2. If no contract is awarded, all bid security will be returned.

21. Contract Security (Performance Assurance) – Required for contracts valued over \$100,000

21.1. The performance assurance forms must bear the bidder's original signature and name HRCE as the insured.

21.2. The successful contractor shall maintain performance assurance in force for a period of not less than twelve (12) months after Ready-for-Takeover is achieved.

21.3. Performance Assurance must be endorsed as specified for bid security.

21.4. Should it become apparent that the final cost of the project will exceed the total amount payable by more than 20%, the bidder shall arrange to have their bonds reissued based on the projected final cost.

- 21.5.** Section 00 72 13 – General Conditions GC11.2 and Section 00 73 00 – Supplementary General Conditions for form of Contract Security. Proponents should reference the project documents for the amount of Contract Security and the alternate type of Contract Security if applicable.
- 21.6.** Performance Assurance must be submitted as one of the following:
- 21.6.1.** Where a Bid Bond was used as bid security:
- 21.6.1.1.** Within ten (10) days after notification of award of the Contract, the successful contractor must provide a Performance Bond and a Labour & Material Payment Bond, each in an amount equal to fifty percent (50%) of the amount of the Contract, naming HRCE.
- 21.6.1.2.** Performance Bond and Labour and Material Payment Bonds, submitted by the bidders, shall be provided at the expense of the bidder and shall be with an established Surety Company satisfactory to and approved by the HRCE.
- 21.6.2.** Where a certified cheque or bank draft is used as Contract Security:
- 21.6.2.1.** The certified cheque or bank draft submitted during the bid period will be cashed and the amount retained by the HRCE shall serve as Performance Assurance, including the payment of all obligations arising under the Contract.
- 21.6.2.2.** The value of the certified cheque or bank draft will be retained in lieu of the Performance Bond and Labour and Material Bonds, providing that, at Contract award, the successful contractor shall supplement their certified cheque or bank draft to maintain an amount of ten (10%) of the total amount payable (Contract Price plus HST) under the contract.
- 21.6.2.3.** The amount remaining will be returned without interest after a period of not less than twelve (12) months after Ready-for-Takeover is achieved.
- 21.6.2.4.** Where certified cheque or bank draft is used as Performance Assurance, the cost of providing the certified cheque or bank draft in the Contract price.
- 21.6.3.** Where an Irrevocable Standby Letter or Credit is used as Contract Security:
- 21.6.3.1.** The Irrevocable Standby Letter of Credit submitted during the bid period will be retained by the HRCE and shall serve as performance assurance, including the payment of all obligations arising under the contract. The Irrevocable Standby Letter of Credit shall be issued by a certified financial institution subject to the Uniform Customs and

Practices for Documentary Credit (1993 revision) International Chamber of Commerce (Publication No. 500).

- 21.6.3.2.** Where an Irrevocable Standby Letter of Credit is used as Performance Assurance, the cost of providing this letter should be included in the Contract Price. The contractor shall provide to the HRCE documentation throughout the duration of the contract that the Irrevocable Standby Letter of Credit remains in full effect at all times as specified.
- 21.6.3.3.** Upon expiry of the Irrevocable Standby Letter of Credit, a separate Irrevocable Standby Letter of Credit shall be provided for work requiring extended warranties for such amounts as are required by the contract.
- 21.6.3.4.** The Irrevocable Standby Letter of Credit is to be in effect for a period of not less than twelve (12) months after the Ready-for-Takeover is achieved.

22. Insurance

- 22.1.** Proponents shall refer to project documents for the amount of insurance, the duration of coverage and alternate type of insurance; if applicable.

Section 00 72 13 -General Conditions of Contract,
Section GC 11.1 – Insurance, and
Section 00 73 00 – Supplementary General Conditions for form of Insurance.

- 22.2.** The contractor shall carry such insurance as is required to protect the contractor, any sub-contractor, the HRCE, their agents and employees from all claims which may arise from the operations under this contract. The amounts of such insurance shall not be less than 22.3 below.

- 22.3.** The General Contractor shall secure and maintain, at its expense, during the term of the insurance:

- 22.3.1.** Wrap-Up Liability insurance must insure the general contractor(s) and all sub-contractors on this project:

- 22.3.1.1.** including but not limited to, products liability and completed operations, contractual liability, owners and contractors' liability, attached

machinery extension endorsement, and independent contractor, for a combined single limit of no less than \$5,000,000 (five million dollars) per occurrence.

- 22.3.1.2.** Wrap-Up Liability insurance is to include 24 months (2 years) of completed operations.
- 22.3.2.** Commercial Auto Liability insurance covering all owned, non-owned and hired vehicles for a minimum combined single coverage of \$2,000,000 (two million dollars) per occurrence.
- 22.3.3.** Builders Risk: All risks in the amount of the contract Stipulated Bid Price. Insurance requirements as stipulated in the CCDC 2-2020.
- 22.3.4.** Workers' Compensation to meet statutory requirements and/or Employers Liability, with limits of not less than \$2,000,000 (two million dollars).
- 22.3.5.** Contractors Pollution Liability Insurance limits of not less than \$2,000,000 (two million dollars) per occurrence
- 22.4.** Primary Insurance: The Contractor agrees that the insurance as required shall be primary and non-contributory.
- 22.5.** No Limitation: The Contractor is responsible for determining whether the minimum insurance coverage amounts contained in this RFP are adequate to protect its interests. These minimum coverage amounts do not constitute limitations upon Supplier's Liability.
- 22.6.** Endorsements – For the policies in item 22.3 above, there shall contain an endorsement naming the Halifax Regional Centre for Education and its affiliates as Additional Insured, and eliminating and removing any exclusion of liability for:

 - 22.6.1.** injury, including bodily injury and death to an employee of the insured or of the Halifax Regional Centre for Education, or
 - 22.6.2.** any obligation of the insured to indemnify, hold harmless, defend, or otherwise make contribution to the Halifax Regional Centre for Education because of damage arising out of injury, including bodily injury and death, to an employee of Halifax Regional Centre for Education.

- 22.7.** The Contractor shall provide a certificate of insurance evidencing the above prior to work being performed. The HRCE also requires a complete copy of the Builder's Risk and Wrap-Up Liability policies, in addition to the Certificate of Liability Insurance.
- 22.8.** Furthermore, HRCE must receive, in writing, at least thirty (30) days' notice of cancellation or modification of the above insurances. All insurance policies or certification documents shall specify coverage being applicable to this contract. The Contractor shall not do or omit to do or suffer anything to be done or omitted to be done which will in any way impair or invalidate such policy or policies of insurance.
- 22.9.** Insurance documents (certificate and policies) shall be provided to the Purchasing Department within the timeframe indicated on the award letter. These documents are required before a purchase order will be issued. Work is not authorized and shall not commence until receipt of the purchase order.

23. Proof of Competency of Proponent

- 23.1.** Any bidder may be required to furnish evidence satisfactory to the owner that he and his proposed sub-contractors have sufficient means and experience in the types of work called for to assure completion of the contract in a satisfactory manner.
- 23.1.1.** The successful contractor must be a member in good standing with CRCA, RCANS or NBRCA; and Nova Scotia Construction Safety Association or approved recognized association or program.

23.2. Proposal Signing

- 23.2.1.** The Technical Submission and the Price Submission form must be signed and under seal (as applicable) by a duly authorized signing officer(s) in their normal signatures.

23.3. Contract Time

- 23.3.1.** The bidder, in submitting an offer, agrees to achieve Ready-for-Takeover of the work by the date indicated in the contract documents.

24. Offer Acceptance / Rejection

24.1. Duration of offer

- 24.1.1.** Proposals shall remain open to acceptance and shall be irrevocable for a period of ninety (90) days after the RFP closing date.

24.2. Award/Selection/Acceptance of Offer

24.2.1. In the evaluation of a proposal, HRCE will consider, but not be limited to, the following criteria:

24.2.1.1. Compliance with proposal requirements

24.2.1.2. Proposal Evaluation Criteria as stated in Section 11.5

24.2.2. The Owner's evaluation of any and all proposals will be final

24.3. After acceptance by HRCE, the successful bidder shall be notified in writing of acceptance of the bid by way of an award letter.

25. Agreement

25.1. After acceptance, the HRCE and the successful proponent will enter into a CCDC-2, standard form of contract for the execution of the work.

25.2. A purchase order will be issued to the successful bidder once the contract has been signed and executed.

26. Post Award Submissions

26.1. Upon receipt of the award letter, the successful contractor will provide the following documents within five (05) business days:

26.1.1. A current Certificate of Recognition or Letter of Good Standing - The Contractor will supply a Certificate of Recognition issued jointly by the Workers' Compensation Board of Nova Scotia and an occupational health and safety organization approved by the Workers' Compensation Board of Nova Scotia (such as the Nova Scotia Construction Safety Association). These approved organizations are currently listed on the Workers' Compensation Board of Nova Scotia website (www.wcb.ns.ca). The contractor shall remain in good standing for the duration of the contract.

The Contractor shall supply the following:

26.1.1.1. Worker's Compensation Coverage – The Contractor shall supply a clearance letter from the Worker's Compensation Board of Nova Scotia, indicating the Contractor is assessed and in good standing;

26.1.1.2. Certificates of good standing with CRCA (Canadian Roofing Contractors Association) and RCANS (Roofing Contractors Association of Nova Scotia);

26.1.1.3. All required contract security and insurance documentation;

26.1.1.4. A completed Schedule of Values (see Section 01 37 00);

26.1.1.5. A completed Safety Plan; and,

26.1.1.6. A detailed listing of subcontractors to be used.

- 26.1.2.** In the event that any such certification during the term of the contract expires, the obligation remains with the Contractor to provide the updated required certificates.
- 26.1.2.1.** The Contractor and subcontractors (if applicable) shall remain in good standing for the duration of the contract.

27. Taxes

- 27.1.** The General Conditions of the Contract state that the Contractor is to pay all Harmonized Sales Tax (HST).
- 27.2.** The HRCE is not exempt from HST. As a result, the aggregate amount of the bid for contracts is subject to HST; however, **prices submitted shall not include HST.**
- 27.3.** The HST payable by the HRCE will be added as a separate item during the processing of progress payments and therefore **HST will not appear as a cost in the aggregate amount of the bid amount.**
- 27.4.** Proponents are advised that they may be eligible to claim an Input Tax Credit (ITC) for a portion of the HST paid in relation to the contract requirement of the Government of Canada.
- 27.5.** Proponents are to note that prices indicated on the Price Submission Form and the amendments to the Price Submission Form shall not include Provincial Sales Taxes, the Federal Goods and Services Tax or the Harmonized Sales Tax.
- 27.6.** Refer to CCDC-2 (Section 00 72 13) and Supplementary General Conditions (Section 00 73 00).

28. Proponent Debriefing

- 28.1.** HRCE will, if requested by a proponent within fifteen (15) days of notice of RFP award, arrange a debriefing for the purpose of informing the bidder why their proposal was not selected. At least two (2) HRCE staff shall attend the de-briefing.

The purpose of the de-briefing will be to discuss the proponent's scoring, answer questions and identify any weak areas in the proponent's submission in order for the proponent to improve future bid submissions. HRCE will not divulge details contained in any proponent's proposal with other proponents or overall ranking.

29. Purchase Orders

- 29.1.** The purchase order will be issued by the HRCE Purchasing Department once the CCDC-2 Contract Documents have been fully executed by all parties.

30. Invoices

- 30.1.** The purchase order number and HST number shall be noted on any/all invoices related to all work performed under this contract.

- 30.2.** Applications for progress payments should be submitted to HRCE's consultant and cc'd to operations-invoices@hrce.ca as well as HRCE's Project Manager (Operations Contact) identified on the RFP cover page.

END OF SECTION 00 21 13

SECTION 00 41 13 – PRICE SUBMISSION FORM

1. Salutation:

**To: HALIFAX REGIONAL CENTRE FOR EDUCATION
33 SPECTACLE LAKE DRIVE, DARTMOUTH, NS B3B 1X7
ATTN: NANCY RIDEOUT, PURCHASING MANAGER**

For: #4242 Roof Replacement – Ellenvale Junior High School

Organization Name:	
Street Address:	
Email Address:	
Telephone:	
Authorized Signing Authority:	
Position Title:	

2. Proponent Declares:

- 2.1.** That this submission was made without collusion or fraud.
- 2.2.** That the proposed work was carefully examined.
- 2.3.** That the Proponent is familiar with local conditions.
- 2.4.** That Contract Documents and Addenda were carefully examined.
- 2.5.** That all the above were taken into consideration in preparation of this RFP.

3. Proponent Agrees:

- 3.1.** To provide all necessary equipment, tools, labour, incidentals and other means of construction to do all the work and furnish all the materials of the specified requirements which are necessary to complete the work in accordance with the Contract and agrees to accept, therefore, as payment in full the Lump Sum Price stated in Subsection 6 hereunder.

- 3.2. The have carefully examined the site of the work described herein; have become familiar with local conditions and the character and the extent of the work; have carefully examined every part of the proposed Contract and thoroughly understand its stipulations, requirements and provisions.
- 3.3. The have determined the quality and quantity of materials required; have investigated the location and determined the source of supply of the materials required; have investigated labour conditions; and have arranged for the continuous prosecution of the work herein described.
- 3.4. To be bound by the award of the Contract and if awarded the Contract on this bid price, to execute the required contract within ten (10) days after notice of award.
- 3.5. They have noted that the Harmonized Sales Tax is excluded from the "Contract Price".
- 3.6. The Contractor's employees shall always report to the main office of a school, indicate who they are, and state their purpose on site prior to starting any work in the school.
- 3.7. ***To the hours of work, defined as: Work for the HRCE is to be completed during hours when schools are unoccupied, unless otherwise authorized in writing by the Project Manager (Operations Contact person) or designate. Hours of work shall comply with local ordinances and bylaws for each site.***
 - 3.7.1. No work shall be conducted on weekends or statutory holidays without specific written approval from the Operations Manager or designate.
 - 3.7.2. In the event that work is requested by HRCE during hours when schools are occupied, the work will be limited to work that is not disruptive to the school. There shall be no mechanical removals, no drilling, screwing or torch work during occupied hours without prior written approval from HRCE.

4. Owner Agrees

- 4.1. To examine this proposal and in consideration, therefore, the proponent hereby agrees not to revoke this bid:
 - 4.1.1. until some other proponent has entered into the Contract with the HRCE for the performance of the work and the supply of the materials specified in the notice inviting proposals; or in the Information to Proponents, or
 - 4.1.2. until ninety (90) days after the time fixed in the Information to Proponents for receiving bids has expired, or
 - 4.1.3. Whichever first occurs; provided, however, that the Proponent may revoke this proposal at any time before the time fixed as indicated in the section 00 21 13, item 13.1.

5. Contract Documents include:

The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 – 2020 is available upon request and will form part of the Contract Documents.

The HRCE Supplementary General Conditions for the CCDC-2, 2020 application to this Work is available for review under Section 0073 00 of the RFP document.

- 5.1.1. Cover Page
- 5.1.2. Table of Contents – Section 00 00 10
- 5.1.3. Description of Work & List of Drawings – Section 00 00 15
- 5.1.4. List of Consultants – Section 00 05 00
- 5.1.5. Information for Proponents – Section 00 21 13
- 5.1.6. Price Submission Form – Section 00 41 13
- 5.1.7. Price Amendment Form (if applicable) – Section 00 41 73
- 5.1.8. Agreement Between Owner and Contractor (CCDC 2) – Section 00 52 00
- 5.1.9. Definitions (CCDC 2) – Section 00 52 13
- 5.1.10. General Conditions of the Stipulated Contract Price (CCDC 2) – Section 00 72 13
- 5.1.11. Supplementary General Conditions – Section 00 73 00
- 5.1.12. Specifications of Work (all applicable sections)
- 5.1.13. Drawing(s) – as applicable
- 5.1.14. Addenda issued by HRCE
- 5.1.15. Post Bid Addenda issued by the HRCE, where applicable.
- 5.1.16. Executed Contract

6. Price Submission - Contract Price:

- 6.1. The undersigned Proponent, having carefully read and examined the aforementioned Contract Documents prepared by the Consultant, for the Halifax Regional Centre for Education, hereby accepts the same as part and parcel of the Contract herein referred to, and having carefully examined the locality and site of works and having full knowledge of the work required and of the materials to be furnished and used, does hereby propose and offer to enter into a contract to perform and complete, the whole of the said works and provide all necessary labour, plant, tools, materials and equipment and pay all applicable taxes, as set forth and in strict accordance with the Specifications, Drawings and other Contract Documents and to do all therein called for on the terms and conditions and under the provisions therein set forth for the following:

6.2 LUMP SUM PRICE

#4242 Roof Replacement – Ellenvale Junior High School

_____ /100 Dollars (\$_____)
(HST Excluded)

Contract Price to be completed in written form on the lines provided above, with cents expressed as numerical fraction of a dollar. Contract price to be completed in numerical form on the line bounded by parenthesis above, with cents expressed as a decimal of a dollar.

Price Submissions will be Evaluated based on the Proponent’s Lump Sum Price.

WHERE THERE IS A CONFLICT, WRITTEN WORD WILL GOVERN.

Award will be subject to Budget Availability.

The HRCE reserves the Right to:

Award to one or more contractors who bid.

Accept bids on any or all sections of this work.

Reduce the Scope of Work if the Bid amount Exceeds the Available Budget.

7. Completion Date:

7.1. The proponent agrees to achieve Ready-for-Takeover on or before the following date:

7.1.1.1. **August 30, 2024**

7.1.1.2. The undersigned Proponent agrees, if awarded the Contract, to achieve the Ready-for-Takeover Date providing the contract is awarded within fifteen (15) business days of RFP closing time.

8. Addenda Acknowledgement

We have received and noted the following addenda:

Addendum #	Dated	# of Pages
_____	_____	_____
_____	_____	_____

_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Signature * The undersigned Proponent declares that this bid is made without connection to any other person(s) submitting pricing for the same work and is in all respects fair and without collusion or fraud.

RFP #4242 Roof Replacement – Ellenvale Junior High School

SIGNATURE:

SIGNED AND DELIVERED
in the presence of:

Witness

CONTRACTOR

Company name

Signature of Signing Officer

Name and Title (printed)

Date

9. Acknowledgement of Student Safety

The Halifax Regional Centre for Education (HRCE) is directly responsible for the safety of its students and staff. Should contractors be required to work in or on school property while children are present, it is a **mandatory HRCE requirement** that contractors assign the work to employees and/or sub-contractors who do not have a criminal record and who are not listed on the Child Abuse Registry. Failure to comply with this requirement may result in immediate contract termination.

The HRCE reserves the right to demand, at any time, during the full term of the project a Criminal Record Check and/or a Child Abuse Registry Check, on any personnel authorized by the Contractor to be on HRCE work/school sites.

By signing below, you are confirming that you understand and will abide by this mandatory HRCE requirement.

_____	_____
Witness	Company name

	Signature of Signing Officer

	Name and Title (printed)

	Date

END OF SECTION 00 41 13

SECTION 00 41 73 - PRICE AMENDMENT FORM
#4242 Roof Replacement
Ellenvale Junior High School

Note: to be completed and forwarded for each Price amendment prior to RFP closing time and date as detailed on the cover sheet of the RFP document and any applicable addenda.

Lump Sum Price Amendment – Section 00 41 13 Price Submission form, Article 6.1. Contract Price

Increase Price by		Decrease Price By	
Amount (excluding HST)	\$	Amount (excluding HST)	\$

It is the Proponent's responsibility to ensure the table above is legible.

Submitted by:

Company Name (please print as it appears on original RFP file)

Authorized Proponent's Name (please print as it appears on Price Submission Form)

Authorized Proponent's Signature

Date

END OF SECTION 00 41 73

SECTION 00 52 00 - AGREEMENT BETWEEN OWNER AND CONTRACTOR
CCDC 2 – 2020

(A copy of Section 00 52 00, Standard Construction Contract CCDC 2 – 2020 (5 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 52 00

SECTION 00 52 13 - DEFINITIONS
CCDC 2 - 2020

(A copy of section 00 52 13, Standard Construction Contract CCDC 2 – 2020 (2 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 52 13

SECTION 00 72 13 - GENERAL CONDITIONS
OF THE STIPULATED PRICE CONTRACT
CCDC 2 - 2020

(A copy of section 00 72 13, Standard Construction Contract CCDC 2 – 2020 (22 pages) is available upon request, otherwise, will form part of the contract sets to the successful bidder)

END OF SECTION 00 72 13

SECTION 00 73 00 - SUPPLEMENTARY GENERAL CONDITIONS CCDC2 – 2020

The Canadian Standard Construction Document for Stipulated Price Contract (CCDC 2, 2020 version), Definitions and General Conditions governing same, shall be used by the project. The following Supplementary General Conditions (the “**Supplementary Conditions**”) are intended to Supplement or Amend the General Conditions, and where conflicts occur, the Supplementary Conditions shall take precedence.

Where a General Condition or paragraph of the General Conditions of the Stipulated Price Contract is Deleted by these Supplementary Conditions, the numbering of the remaining General Conditions or paragraphs shall remain unchanged, and the numbering of the Deleted item will be retained, unused.

2 ARTICLE A-5 PAYMENT

Change 5.2.1 to delete the letter “s” from the word “rates”.

Change 5.2.1(1) to read: "1% per annum above the prime rate."

Delete 5.2.1(2) in its entirety.

Delete 5.2.2. in its entirety.

DEFINITIONS

Add the following defined term to the Definitions:

Submittals

Submittals are documents or items required by the Contract Documents to be provided by the Contractor, such as:

1. Shop Drawings, samples, models, mock-ups to include details or characteristics, before the portion of the Work that they represent can be incorporated into the Work; and
2. As-built drawings and manuals to provide instructions to the operation and maintenance of the Work.

3 GC 1.1 CONTRACT DOCUMENTS

Add to the end of subparagraph 1.1.6.2:

1.1.6.2 Except where the Consultant shall be indemnified as a third party beneficiary as provided in subparagraphs 9.2.7.4, 9.5.3.4 and in 13.1.1.3.

Add subparagraph 1.1.4.1:

1.1.4.1 Notwithstanding GC 1.1.4, should one or more conflict exist between Contract Documents and any work is done without consulting the Consultant for correction, Additional information, or a finding, the Contractor shall assume full and sole responsibility for any Additional costs incurred related to the conflict(s).

4 GC 2.4 DEFECTIVE WORK

Add new subparagraphs 2.4.1.1 and 2.4.1.2:

2.4.1.1 The Contractor shall rectify, in a manner acceptable to the Owner and the Consultant, all defective work and deficiencies throughout the Work, whether or not they are specifically identified by the Consultant.

2.4.1.2 The Contractor shall prioritize the correction of any defective work which, in the sole discretion of the Owner, adversely affects the day to day operation of the Owner.

5 PART 3 EXECUTION OF THE WORK

6 GC 3.1 CONTROL OF THE WORK

Add new paragraphs 3.1.3 and 3.1.4:

3.1.3 Prior to commencing individual procurement, fabrication, and construction activities, the Contractor shall verify, at the Place of the Work, all relevant measurements and levels necessary for proper and complete fabrication, assembly and installation of the Work and shall further carefully compare such field measurements and conditions with the requirements of the Contract Documents. Where dimensions are not included or contradictions exist, or exact locations are not apparent, the Contractor shall immediately notify the Consultant before proceeding with any part of the affected work.

3.1.4 The Contractor shall make all reasonable efforts to ensure that the Work is carried out in a continuous manner. The Contractor shall not knowingly permit Construction Equipment and/or Products to be stored at the Place of Work when they are not being used in connection with or implemented into the Work, except in accordance with paragraph 3.7.7.1.

7 GC 3.6 SUBCONTRACTORS AND SUPPLIERS

Add the following paragraph 3.6.7:

3.6.7 A copy of the agreement between Contractor and any subcontractor(s) shall be provided to the Owner and the Consultant, if so requested.

8 GC 3.7 LABOUR AND PRODUCTS

Add the following paragraph 3.7.4:

3.7.4 The Contractor is responsible for the safe on-site storage of Products and their protection (including Products supplied by the Owner and other contractors to be installed under the Contract) in such ways as to avoid dangerous conditions or contamination to the Products or other persons or property and in locations at the Place of the Work to the satisfaction of the Owner and the Consultant. The Owner shall provide all relevant information on the Products to be supplied by the Owner.

Add the following paragraph 3.7.5:

3.7.5 The Contractor shall confine Construction Equipment, Temporary Work, storage of Products, waste products and debris, and operations of employees and Subcontractors to limits indicated by laws, ordinances, permits, or the Contract Documents and shall not unreasonably encumber the Place of the Work.

Add the following paragraph 3.7.6:

3.7.6 The Contractor shall maintain the Work in a safe and tidy condition and free from accumulation of waste products and debris.

Add the following paragraphs 3.7.7.1 and 3.7.7.2:

3.7.7 .1 The Contractor shall not permit Products or Construction Equipment to be stored at the Place of Work unless:

(i) the Products and/or Construction Equipment are used within fourteen (14) days of their arrival at the Place of Work; or

(ii) the Owner provides written permission for Products and/or Construction Equipment to be stored at the Place of Work, in which case the Contractor shall comply with the written instructions provided by the Owner in that regard, and said permission may be withdrawn by the Owner upon five (5) business days' notice, in which case the Contractor will be solely responsible for any costs, losses, or damages the Contractor incurs in connection the withdrawal of said permission;

.2 Notwithstanding any other provision of the Contract Documents, and subject only to the provisions of any Payment Legislation, the Owner shall not be liable to pay any amount greater than 25% of the actual cost of any Products and/or costs associated with Construction Equipment that is/are stored at the Place of Work and not used within 14 days of their arrival at the Place of Work. The Owner shall only become liable to pay for the remainder of said Products and/or costs of said Construction Equipment after those Products and/or Construction Equipment are actually used at the Place of Work and is/are invoiced in accordance with the terms of the Contract Documents.

Add the following paragraphs 3.7.8.1., 3.7.8.2, 3.7.8.3, and 3.7.8.4:

3.7.8 The Contactor shall:

.1 furnish competent and adequate labour and staff, who shall be in attendance at the Place of Work at all times, as necessary, for the proper administration, co-ordination, supervision, and superintendence of the Work;

.2 organize the procurement of all Products and Construction Equipment so that labour and staff will be available at the requisite times to complete the Work in accordance with GC 3.4 Construction Schedule;

.3 keep an adequate force of skilled workers at the Place of Work, as necessary, to complete the Work in accordance with all requirements of the Contract Documents and in accordance with GC 3.4 Construction Schedule; and

.4 provide the Owner, Project Manager, and Consultant, with the names, work addresses, and telephone numbers of the appointed representative of the Contract and other responsible field persons who may be contacted during non-working hours.

9 GC 3.8 SHOP DRAWINGS AND OTHER SUBMITTALS

Add the words “AND OTHER SUBMITTALS” to the Title after SHOP DRAWINGS in GC 3.8.

Add “and Submittals” after each instance of the words “Shop Drawings” in paragraphs 3.8.1, 3.8.2, 3.8.3, 3.8.3.2, 3.8.5, 3.8.6, and 3.8.7.

Add the following paragraph 3.8.1.1:

3.8.1.1 Prior to the first application for payment, the Contractor and the Consultant shall jointly prepare a schedule of the dates for submission and return of Shop Drawings and any Submittals.

Add the following subparagraph 3.8.4.1:

3.8.4.1 The following paragraph shall apply to each Shop Drawing and Submittal reviewed in connection with the project. The Consultant’s review conducted pursuant to GC 3.8.3 shall not imply that the Consultant has approved the detailed design inherent in the Shop Drawings or Submittals, responsibility for which shall remain with the Contractor submitting same. The Contractor is responsible for information that pertains solely to fabrication processes or to techniques of construction and installation, and for coordination of the work of all sub trades.

Delete the following words in paragraph 3.8.7:

3.8.7 “with reasonable promptness so as to cause no delay in the performance of the Work” and replace those words with: “within ten (10) working days or such longer period as may be reasonably required”.

Add new GC 3.9 as follows:

10 GC 3.9 CONTRACTOR RESPONSIBILITY FOR WATER TIGHTNESS

GC 3.9 The Drawings and Specifications are not intended to depict each and every condition or detail of construction. As the knowledgeable party in the field, the contractor is in the best position to verify that all construction is completed in a manner which will provide a watertight structure.

The contractor has the sole responsibility for ensuring the watertight integrity of the structure.

Add new GC 3.10 as follows:

11 GC 3.10 PERFORMANCE BY CONTRACTOR

GC 3.10 In performing the Work and all its services and obligations under the Contract, the Contractor shall exercise a standard of care, skill and diligence that would normally be provided by an experienced and prudent contractor supplying similar services for similar projects. The Contractor acknowledges and agrees that throughout the Contract, the Contractor's obligations, duties and responsibilities shall be interpreted in accordance with this standard. The Contractor shall exercise the same standard of due care and diligence in respect of any products, personnel, or procedures which it may recommend to the Owner.

The Contractor further represents, covenants and warrants to the Owner that:

1. The personnel it assigns to the Project are appropriately experienced;
2. It has sufficient staff of qualified and competent personnel to replace its designated supervisor and project manager, subject to the Owner's approval, in the event of death, incapacity, removal or resignation.

12 GC 4.1 CASH ALLOWANCES

Delete paragraph 4.1.7 in its entirety and substitute:

4.1.7 At the commencement of the Work, the Contractor shall prepare for the review and acceptance of the Owner and the Consultant a schedule indicating the times, within the construction schedule referred to in GC 3.4, at which items called for under cash allowances and items that are specified to be purchased by the Owner and installed or hooked up by the Contractor are required to be at the Place of the Work to avoid delaying the progress of the Work.

Add new paragraph 4.1.8:

4.1.8 The *Owner* reserves the right to call, or to have the Contractor call, for competitive bids for portions of the Work, to be paid for from cash allowances.

13 GC 5.1 FINANCING INFORMATION REQUIRED OF THE OWNER

Delete section GC 5.1 in its entirety.

14 GC 5.2 APPLICATION FOR PROGRESS PAYMENT

Add to paragraph 5.2.1, “, the Project Manager,” after the word “Owner”.

Add the following at the end of paragraph 5.2.2:

5.2.2 Such applications shall be accompanied by one or more of the following documents: a Statutory Declaration, Waiver of Lien, or receipt, stating that the holdback monies claimed have been paid to the particular party or parties so named or referred to therein. The form of the Statutory Declaration, Waiver of Lien, or receipt shall meet the approval of the Consultant.

Add the following paragraph 5.2.9:

5.2.9 The reference to payment for Products delivered to the Place of the Work in Article 5.2.8 shall not be construed as covering day-to-day financing of the Project. Products delivered to the Place of the Work shall be construed to mean major items of equipment or quantities of items that are essential for the expedient conduct of the Work.

Add the following paragraph 5.2.10:

5.2.10 The Contractor shall submit all applications for payment and invoices (with supporting documents as required by the Contract Documents) to the Owner via the following email address: operations-invoices@hrce.ca.

15 GC 5.3 PAYMENT

Supplement paragraph 5.3.1 by adding the following:

5.3.1 A holdback percentage of ten (10) percent (%) shall apply to progress payments. The sworn statement by the Contractor for release of holdback monies shall be in the form of a Statutory Declaration meeting the approval of the Consultant. Amounts as certified by the Consultant to rectify deficiency items, or incomplete portions of individual work items, may be retained by the Owner after Substantial Performance has been obtained, pending Total Performance of the work or other authorization for release by the Consultant.

Amend subparagraph 5.3.1.2 as follows:

5.3.1.2 Delete "28" and replace with "30."

16 GC 5.4 SUBSTANTIAL PERFORMANCE OF THE WORK AND PAYMENT OF HOLDBACK

Add the following paragraph 5.4.7:

5.4.7. Before the Contractor submits his application for Substantial Performance of the Work, all Operations and Maintenance Manual materials shall be submitted in accordance with the Contract Documents. The Certificate of Substantial Performance will not be issued until this requirement is met.

Add the following subparagraph 5.4.8:

5.4.8 After the issuance of a certificate of Substantial Performance of the Work by the Consultant, the Contractor shall promptly submit to the Consultant and the Owner (i) a Certificate from a barrister stating that there are no Builders' Liens filed relating to the Work and (ii) a Clearance Letter from the Workers' Compensation Board.

17 GC 5.5 FINAL PAYMENT

Add the following subparagraphs 5.5.1.1, 5.5.1.2, 5.5.1.3, and 5.5.1.4:

5.5.1.1 The Contractor's application for final payment is considered to be valid only when all of the following have been performed:

1. Work has been completed and inspected for compliance with Contract Documents, and the Consultant is satisfied that all the requirements of the Contract have been fulfilled by the Contractor.
2. Defects have been corrected, deficiencies have been completed, and the Place of Work is (i) free of waste products and debris, and (ii) clean and suitable for use or occupancy by the Owner.
3. Equipment and systems have been tested, adjusted and balanced and are fully operational, and written reports as outlined in the Contract Documents have been provided to the Consultant.
4. Certificates required by Utility companies, manufacturer's representative and inspectors have been submitted.
5. Spare parts, maintenance materials, warranties and bonds have been provided.

5.5.1.2 If Work is deemed incomplete by the Consultant, the Contractor shall complete outstanding items and request re-inspection.

5.5.1.3 If, within sixty (60) days after the issuance by the Consultant of the Certificate of Substantial Performance, the Contractor has not corrected all the deficiencies, the Owner will retain sufficient money to cover the cost of completing said deficiencies, as determined by the Consultant, in

addition to holding monies retained in accordance with the Contract Documents and subject to the provisions of the Builders' Lien legislation of Nova Scotia.

5.5.1.4 Neither the final certificate nor the payment thereunder, nor any provision in the Contract Documents shall relieve the Contractor from responsibility for faulty material or workmanship which shall appear within a period of one (1) year from the date when Ready-For-Takeover has been attained and the Contractor shall promptly remedy any defects due thereto and pay for any damage to other Work resulting therefrom which shall appear within such period of one year. The Owner shall give notice of observed defects reasonably promptly. This article shall not be deemed to restrict any liability of the Contractor arising out of any law in force in the Province of Nova Scotia.

18 GC 6.2 CHANGE ORDER

Add the following paragraphs 6.2.3, 6.2.4, 6.2.5, 6.2.5, 6.2.6, 6.2.7, and 6.2.8:

- 6.2.3 All contemplated changes in the work shall be issued by the Consultant on a "Contemplated Change Order" form.
- 6.2.4 For lump sum pricing, the Contractor shall, upon receipt of the Contemplated Change Order, submit to the Consultant for approval within seven (7) days, a quotation for changes in the work. The Contractor acknowledges that failure to do so will result in foreseeable delay to the approval and payment of changes in the Work and foreseeable Additional costs to the Owner.
- 6.2.5 Quotation for changes shall be priced in sufficient detail (GC 6.6 applies).
- 6.2.6 Consultant shall, within five (5) working days, notify the Contractor whether estimates are accepted by Owner or further information is required. Acceptance of the Owner shall be indicated in writing, and a signed copy of the Contemplated Change Order form shall be returned to the Contractor.
- 6.2.7 The Contractor shall take reasonable measures to stop Work or minimize the Work in areas affected by or related to the contemplated change(s).
- 6.2.8 For each change in the Work, the Contract Price shall be increased by the net cost of that change in the Work, plus the following mark-ups for all overhead and profits:
- a. a 10% mark-up on the direct cost of the net change in the Work for change work performed by the Contractor's own forces; and
 - b. a 5% mark-up on the change work performed by Subcontractors.

Credits for reduced or Deleted portions of the Work shall be the actual cost of that Work, without Addition or subtraction of any amount by the Contractor for overhead and profit, and shall be included in the actual cost of the net change.

19 GC 6.3 CHANGE DIRECTIVE

Delete paragraph 6.3.6.3 of GC 6.3 and replace with:

6.3.6.3. The Contractor's percentage fee referred to in paragraphs 6.3.6.1 and 6.3.6.2 shall be calculated and determined applying the following percentage mark-ups for overhead and profit:

- a. a 10% mark-up on the direct cost of the net change in the Work for change work performed by the Contractor's own forces; and
- b. a 5% mark-up on the change work performed by Subcontractors.

Add to GC 6.3 the following paragraphs 6.3.14 and 6.3.15:

6.3.14 If unit prices are set out in the Contract or subsequently agreed upon, then the unit process alone shall govern in relation to determining the cost of any item for a Change Directive.

6.3.15 Payment of the cost of performing work attributable to a Change Directive shall be made only if and to the extent that the Contractor has taken all reasonable steps to mitigate and minimize the impact of the change and the resulting cost.

20 GC 6.4 CONCEALED OR UNKNOWN CONDITIONS

Add new paragraph 6.4.5:

6.4.5 The *Contractor* confirms that, prior to bidding the *Project*, it carefully investigated the Place of the Work and applied to that investigation the degree of care and skill described in paragraph 3.10, given the amount of time provided between the issue of the bid documents and the actual closing of bids, the degree of access provided to the Contractor prior to submission of bid, and the sufficiency and completeness of the information provided by the Owner. The Contractor is not entitled to compensation or to an extension of the Contract Time for anything which could reasonably have been ascertained by the Contractor by such careful investigation undertaken prior to the submission of the bid.

21 GC 6.5 DELAYS

Delete the period at the end of paragraph 6.5.1 and substitute the following words:

6.5.1 “, but excluding any consequential, indirect or special damages.”

Add new paragraph 6.5.6:

6.5.6 If the Contractor is delayed in the performance of the Work by any act or omission of the Contractor or anyone employed or engaged by the Contractor directly or indirectly, or by any cause within the Contractor's control, then the Contract Time shall be extended for such reasonable time as the Consultant may decide in consultation with the Contractor. The Owner shall be reimbursed by the

Contractor for all reasonable costs incurred by the Owner as the result of such delay, including all services required by the Owner from the Consultant as a result of such delay by the Contractor and, in particular, the cost of the Consultant's services during the period between the Ready-for-Takeover date stated in Article A-1 herein (subject to any adjustment in accordance with the Contract Documents) and any later, actual date Ready-for-Takeover is attained by the Contractor.

Add new paragraph 6.5.7:

6.5.7 The Consultant shall not, except by written notice to the Contractor, stop or delay any part of the Work pending decisions or proposed changes.

22 GC6.6 CLAIMS FOR A CHANGE IN CONTRACT PRICE

Add the following to the end of paragraph 6.6.1, deleting the "." after the word "Consultant":

"in no case more than 10 Working Days from the event or series of events giving rise to the claim".

Amend paragraph 6.6.5 as follows:

6.6.5 Add the words "as noted in paragraph 6.6.3" after the words "of the claim" and add the words "and the consultant", at the end.

Add the following paragraph 6.6.7:

6.6.7 If the Contractor claims for an increase in the Contract Price pursuant to this GC 6.6, the amount of any such claim shall be limited to the amount determined in accordance with the methods of quantification set out in paragraphs 6.3.6, 6.3.7, and 6.3.14 of GC 6.3, and the Contractor shall promptly submit a detailed breakdown of all labour, materials, overhead, and profits claimed, including those of Subcontractors. Contemporaneous records are required to support a claim for an increase in the Contract Price, and the Owner retains the right to verify all submitted records through an independent audit. The Owner is not liable for costs not so substantiated. Any mark-up for overhead and profit on the claimed amount under this GC 6.6 shall be limited to the amounts provided for under GC 6.3.6.3, as Amended by these Supplementary Conditions.

23 GC 8.3 NEGOTIATION, MEDIATION, AND ARBITRATION

Add the following paragraphs 8.3.9, 8.3.10, 8.3.11, 8.3.12, 8.3.13, 8.3.14, and 8.3.15:

8.3.9 Within five (5) days of receiving a Notice in Writing requesting arbitration, the party receiving the notice shall give the Consultant a written notice containing:

- a. a copy of the Notice in Writing requesting arbitration;
- b. a copy of supplementary conditions 8.2.9 to 8.2.14 of this contract, and;

- c. a concise description of any claims or issues which the Contractor or the Owner, as the case may be, wishes to raise in relation to the Consultant arising out of the issues in dispute in the arbitration.

8.3.10 The Owner and the Contractor agree that the Consultant may elect, within ten (10) days of receipt of the notice under paragraph 8.3.9, to become a full party to the arbitration under paragraph 8.3.6 if the Consultant:

- a. has a vested or contingent financial interest in the outcome of the arbitration;
- b. gives the notice of its election to the Owner and the Contractor before the arbitrator is appointed;
- c. agrees to be a party to the arbitration within the meaning of the rules referred to in paragraph 8.3.6, and;
- d. agrees to be bound by the arbitral award made in the arbitration.

8.3.11 If an election is made under paragraph 8.3.10, the Consultant may participate in the appointment of the arbitrator and, notwithstanding the rules referred to in paragraph 8.3.6, the time period for reaching agreement on the appointment of the arbitrator shall begin to run from the date the respondent receives a copy of the notice of arbitration.

8.3.12 The arbitrator in the arbitration in which the Consultant has elected under paragraph 8.3.10 to become a full party may:

- a. on application of the Owner or the Contractor, determine whether the Consultant has satisfied the requirements of paragraph 8.3.10, and;
- b. make any procedural order considered necessary to facilitate the Addition of the Consultant as a party to the arbitration.

8.3.13 The provisions of paragraph 8.3.9 shall apply mutatis mutandis to written notice to be given by the Consultant to any sub-consultant.

8.3.14 In the event of notice of arbitration given by the Consultant to a sub-consultant, the sub-consultant is not entitled to any election with respect to the proceeding as outlined in 8.3.10, and is deemed to be bound by the arbitration proceeding.

8.3.15 An application for arbitration shall be accompanied by security in the amount of \$1,000 to apply to the cost of arbitration. Any claims of excess costs must be submitted in writing to the Consultant within two weeks of completion or alleged completion of the work. No claims shall be accepted after this date and, also, no claims shall be accepted for disputed work unless the Consultant has been notified as specified.

24 GC 9.1 PROTECTION OF WORK AND PROPERTY

Delete subparagraph 9.1.1.1 in its entirety and substitute the following new paragraph 9.1.1.1:

9.1.1.1 errors or omissions in the Contract Documents which the Contractor could not have discovered applying the standard of care described in paragraph 3.10.

Delete paragraph 9.1.2 in its entirety and substitute the following new paragraph 9.1.2:

9.1.2 Before commencing any Work, the Contractor shall determine the locations of all underground utilities and structures indicated in the Contract Documents, or that are discoverable by applying to an Inspection of the Place of the Work exercising the degree of care and skill described in paragraph 3.10.

25 GC 9.2 TOXIC AND HAZARDOUS SUBSTANCES

Add in paragraph 9.2.6 after the word “responsible”, the following new words:

9.2.6 Or whether any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirements, or which threatens human health and safety or the environment, or material damage to the property of the Owner and others,

Add in subparagraph 9.2.7.4:

9.2.7.4 “and the Consultant” after “Contractor”:

Add in paragraph 9.2.8 after the word “responsible”, the following new words:

9.2.8 or that any toxic or hazardous substances or materials already at the Place of the Work (and which were then harmless or stored, contained or otherwise dealt with in accordance with legal and regulatory requirements) were dealt with by the Contractor or anyone for whom the Contractor is responsible in a manner which does not comply with legal and regulatory requirement, or which threatens, human health and safety or the environment, or material damage to the property of the Owner or others,

26 GC 9.4 Construction Safety

Add to the end of paragraph 9.4.1:

The Contractor shall be responsible for and ensure the safety of not only the workers, Subcontractors, tradespeople, and Suppliers, and their equipment, but also of all other persons who enter the Place of Work whether during working hours or not, and for that purpose shall erect

such hoardings and signs and shall employ such safety measures as may be necessary to ensure the safety of such persons.

Delete paragraph 9.4.5 and replace with:

The Contractor shall be responsible for the cost to comply with any public health order(s) affecting the performance of the Work issued pursuant to the Health Protection act (Nova Scotia) or pursuant to any similar legislation, whether Federal or Provincial.

27 GC 9.5 MOULD

Add in subparagraph 9.5.3.4:

9.5.3.4 “and the Consultant” after “Contractor”

28 GC 10.1 TAXES AND DUTIES

Add the following paragraph 10.1.3:

10.1.3 The Contractor shall indicate on each application for payment as a separate amount, the appropriate Harmonized Sales Tax the Owner is legally obliged to pay. This amount will be paid to the Contractor in Addition to the amount certified for payment under the Contract. The Contractor’s HST registration number must appear on all invoices.

29 GC 10.2 LAWS, NOTICES, PERMITS AND FEES

Delete from the first line of paragraph 10.2.5 the word, “The” and substitute the words:

10.2.5 “Subject to paragraph 3.10, the”

30 GC 10.4 WORKERS' COMPENSATION

Add the following paragraphs 10.4.2, 10.4.3, 10.4.4, and 10.4.5:

10.4.2 The contractor is referred to regulations, as applicable, under the Worker's Compensation Act of Nova Scotia.

10.4.3 The Contractor’s registration with the Worker’s Compensation Board shall be continuous during the contract. Should registrations be scheduled to expire during the contract period, the Contractor shall submit a copy of its registration renewal one month prior to the expiration of the current certificate.

10.4.4 The Contractor shall furnish evidence of coverage under the Worker’s Compensation Act of Nova Scotia and a clearance Certificate providing proof of registration with the Worker’s Compensation Board prior to commencement of the Work. (A photocopy of the Contractors registration

certificate is acceptable proof). On-going proof of good standing with the Worker's Compensation Board during the term of the contract is required.

10.4.5 The Contractor shall also maintain a Certificate of Recognition (COR) from a safety audit company recognized by the Workers' Compensation Board, such as the Nova Scotia Construction Safety Association, for the duration of the Contract. The Contractor shall provide a copy of its COR to the Owner and Consultant prior to commencement of the Work and shall provide a copy of its COR to the Owner or Consultant upon request.

GC 11.1 INSURANCE

Delete sentences and replace with the following in subparagraph 11.1.1.1:

11.1.1.1 **Delete:** "General liability insurance shall be maintained from the commencement of the Work until one year from the date of Ready-for-Takeover. Liability coverage shall be provided for completed operations hazards from the date of Ready-for-Takeover on an ongoing basis for a period of 6 years following Ready-for-Takeover" **and replace with:** "General Liability Insurance or Wrap- Up Liability Insurance, (as detailed in the Information to Tenders section under "Insurance Requirements"), shall be maintained from the commencement of the Work until final completion and acceptance of the Work including the making good of faulty work or materials, except that coverage of completed operations liability shall in any event be maintained for twelve (12) months from date of Ready-for-Takeover".

Add the following subparagraphs 11.1.1.1.1, 11.1.1.1.2, and 11.1.1.2.1:

11.1.1.1.1 The general liability insurance to be maintained by the Contractor shall include Commercial General Liability Insurance covering Premises and Operations Liability, elevators, broad form property damage, broad form automobile, owners and contractors protective, blanket contractual, personal injury, completed operations liability contingent employers liability, cross liability clause, non-owned automobile liability, and a 30 day notice of cancellation clause.

11.1.1.1.2 All liability insurance policies shall be written in such terms as will fully protect the Contractor and The Halifax Regional Centre for Education as an Additional named insured.

11.1.1.2.1 Liability coverage of not less than ten million dollars (\$10,000,000) is required with regard to operations of owned and non-owned automobiles.

Delete subparagraph 11.1.1.4 in its entirety and insert the following subparagraphs:

11.1.1.4 Broad Form (All Risks) Builders Risk Coverage - Prior to the commencement of any Work the Contractor shall maintain and pay for Broad Form (All Risks) Builders Risk Coverage in the joint names of The HRCE and the Contractor totaling not less than one hundred percent (100%) of the total value of the Work to be done and materials delivered on the site

(contract value), so that any loss under such policies of insurance will be payable to The HRCE and the Contractor as their respective interests appear. The Builders Risk Insurance shall include all materials related to the Work while in transit or at other locations.

- 11.1.1.4.1 Should a loss be sustained under the Builders Risk Coverage, the Contractor shall act on behalf of The HRCE and Contractor for the purpose of adjusting the amount of such loss with the insurance companies. As soon as such adjustment has been satisfactorily completed, the Contractor shall proceed to repair the damage and complete the Work and shall be entitled to receive from The HRCE in Addition to any sum due under the Contract, the amount at which The HRCE interest has been appraised in the adjustment made with the insurance companies as referred to above, said amount to be paid to the Contractor as the Work of restoration proceeds. Any loss or damage which may occur shall not affect the rights and obligations of either party under the Contract except as aforesaid and except that the Contractor shall be entitled to a reasonable extension of time for the performance of the Work, as The HRCE may decide.
- 11.1.1.4.2 Upon Ready-for-Takeover being attained, the Contractor's obligation to maintain Builder Risk Insurance shall cease and The HRCE shall assume full responsibility for insuring the whole of the Work against loss or damage.
- 11.1.1.4.3 "Broad form" property insurance in the joint names of the *Contractor*, the *Owner* and the *Consultant*. The policy shall include as insureds all *Subcontractors*. The Broad form" property insurance shall be provided from the date of commencement of the Work until the earliest of:
- 11.1.4.3.1 Ten (10) Calendar days after Ready-for-Takeover;
- 11.1.4.3.2 on the commencement of use or occupancy of any part or section of the *Work* unless such use or occupancy is for construction purposes, habitational, office, banking, convenience store under 465 square meter in area, or parking purposes, or for the installation, testing and commissioning or equipment forming part of the *Work*; and
- 11.1.4.3.3 when left unattended for more than thirty (30) consecutive calendar days or when construction activity has ceased for more than thirty (30) consecutive calendar days.

Paragraph 11.1.2 is supplemented as follows:

- 11.1.2 In addition, within seven (7) working days after notification of award or in any event prior to payment of the first progress claim, the Contractor shall submit certified true copies of each insurance policy to the Owner's Contract Authority. Such copies shall be exclusive of information pertaining to premium or premium bases used by the insurer to determine the cost of the insurance. Prior to the commencement of any work, the Contractor shall file with the Owner a certified copy of each insurance policy and certificate required.

Delete 11.1.5 in its entirety and replace with the following:

11.1.5 Insurance contracts shall be procured from and the premiums paid to a resident agent of an insurance Company licensed to underwrite insurance in the Province of Nova Scotia.

Add the following paragraph 11.1.9:

11.1.9 All of the insurance policies shall contain a clause stating that no change in terms and conditions or cancellation may at any time be made without the full knowledge and consent of the Owner.

31 GC 11.2 CONTRACT SECURITY

Add the following paragraphs 11.2.1, 11.2.2, and subparagraph 11.2.2.1:

11.2.1 The Contractor shall, prior to commencement of the *Work* or within the specified time, provide to the *Owner* and the Consultant the *Contract* security specified in the *Contract Documents*.

11.2.2 If the *Contract Documents* require surety bonds to be provided, such bonds shall be issued by a duly licensed surety company authorized to transact the business of suretyship in the province or territory of the *Place of the Work* and shall be maintained in good standing until the fulfillment of the *Contract*. The form of such bonds shall be in accordance with the latest edition of the CCDC approved bond forms, or in such other form as specified by the Owner.

11.2.2.1 "Bonds shall be procured from a Nova Scotia resident agent of an insurance company licensed to do business in Nova Scotia and shall be maintained in good standing and held by the Owner until one (1) year after Ready-for-Takeover.

Add the following paragraph 11.2.3:

11.2.3 If a Certified Cheque is held as contract security it shall be in an amount equal to ten (10) percent (%) of the Contract Price. The Contract shall supplement the Certified Cheque as necessary to maintain the amount equal to ten (10) percent (%) of the total amount payable (Contract Price plus HST).

- .1 The Certified Cheque will be deposited at the chartered bank holding The HRCE deposits.
- .2 The HRCE will return the cheque amount to the Contractor upon satisfactory completion of the contract and duration as specified in the Tender documents.
- .3 Should Contractor default, total amount payable under the Certified Cheque will be the face value of the cheque plus all accrued interest.
- .4 Payment for completion of work, due to failure of performance of the Contractor, shall include all reasonable obligations under the Contract, including architectural and engineering costs arising because of the default of the Contractor.

- .5 Payment for labour and materials shall be limited to those who have a direct contract with the Contractor for the provision of labour and/or material (which includes equipment rental).

32 GC 12.3 WARRANTY

In paragraph 12.3.2, delete from the first line the word, “The” and substitute the words:

12.3.2 “Subject to paragraph 3.10, the...”

Add the following paragraph 12.3.7:

12.3.7 Warranty repairs or replacements which arise during warranty period which affect the operation of the system shall be attended to immediately upon notification from the Consultant.

33 GC 13.3 INDEMNIFICATION

Add the following paragraph 13.1.1.3:

13.1.1.3 The Contractor shall indemnify and hold harmless the Consultant, its agents and employees from and against claims, demands, losses, costs, damages, actions, suits, or proceeding by third parties that arise out of, or are attributable to, the Contractor’s performance of the Contract, provided such claims are attributable to bodily injury, sickness, disease, or death, or to injury to or destruction of tangible property, and caused by negligent acts or omissions of the Contractor or anyone for whose acts the Contractor may be liable, and made in writing within a period of six (6) years from t Ready-for-Takeover, or within such shorter such period as may be prescribed by any limitation statute or the province or territory of the Place of the Work.

END OF SECTION 00 73 00

SECTION 01 11 00 - HRCE SUMMARY OF WORK

1. Project Location & General Scope

- 1.1. Ellenvale Junior High School, 88 Belle Vista Dr, Dartmouth, NS B2W 2X7
- 1.2. Scope: Refer to Section 00 00 15 for scope and schedule information.

2. Contract Documents

- 2.1. Work will be performed under CCDC-2 contract.

3. General Conditions

- 3.1. Halifax Regional Centre for Education and CCDC-2 form an integral part of this Project Manual, a copy of which is bound herein.

4. Project Manual

- 4.1. Sections of the Project Manual are numbered in conformance with the Master List of Section Titles and Numbers, CSC Document 004E, published jointly by Construction Specifications Canada and The Construction Specifications Institute (USA). Sections are arranged in their standard format.
- 4.2. Sections are written as units of the Work which have been assigned numbers in conformance with the CSC/CSI system. They are arranged in sequence for this Manual. Gaps in the order of numerical sequence do not indicate that a section has been inadvertently omitted from this Manual, but, rather that a Section is not required for completion of the Work.
- 4.3. Wherever the project location building name occurs in the Contract Documents it shall be taken to mean all work included in the Contract.
- 4.4. Wherever in the Contract Documents the words "approval", "approved", "direction", "directed", "selection", "selected", "request", "requested", "report", and similar words are used, such approvals, directions, selections, requests and reports shall be given by the HRCE unless specifically stated otherwise.
- 4.5. Wherever in the Contract Documents the word "provide" is used in any form, it shall mean that the Work concerned shall include both supply and installation of the products required for completion of that part of the Work.
- 4.6. Wherever in this Project Manual it is specified that Work is to proceed or to meet approval, direction, selection or request of jurisdictional authorities or others, such approval, direction, selection or request shall be in writing.

5. Errors & Omissions

- 5.1.** If errors or omissions are observed in the Contract Documents, immediately notify the HRCE Procurement Contact in writing of all such errors or omissions. In the event no such notice is given, the Contractor will be held responsible for the results of any such error or omission and the cost of rectifying the same.

6. Division 1

- 6.1.** The provisions of all Sections of **Division 1** shall apply to each Section of this Specification.

7. Wage Rates

- 7.1.** Pay all employees engaged on the Work a wage not less than the minimum wage per hour as set out by the Province of Nova Scotia. For overtime work beyond 48 hours in any one week, pay no employee at a rate of less than one and one-half times the minimum wage per hour noted above. Provide for these wage rates in tendered contract amount.

8. Work Performed Under Separate Contracts

- 8.1.** Work not to be included in the Contract, as noted "NIC" on the Drawings, shall be governed by Article 37, Separate Contracts, of General Conditions of Contract.
- 8.2.** Furniture installation will be carried out by others.
- 8.3.** Computer installation will be carried out by others.

9. Project Schedule

- 9.1. Refer to Section 00 00 15 Description of Work.**
- 9.2.** Existing services (mechanical & electrical) will need to be maintained through the renovations.
- 9.3.** During construction, all life safety systems as well as mechanical and electrical systems must be in active, usable condition to permit the school to operate or alternate methods used to ensure the safe operation of the school as directed by HRCE project representative.
- 9.4.** As construction progresses revise the schedule to compensate for any delays or unforeseen activities so as to maintain the contract completion date. Each schedule submission is to be complete with a statement indicating the changes made, the reason they were changed and confirmation that the project completion date will not change. The above schedule information is to be submitted monthly or more often if necessary.

10. Site Progress Records

- 10.1.** Maintain at site a permanent written record of progress of Work. Make the record available at all times with copies provided when requested. Include in record each day:
 - 10.1.1.** Commencement and completion dates of the Work of each trade in each area of Project.
 - 10.1.2.** Attendance of Contractor's and Subcontractor's Work forces at Project and a record of the work they perform.
 - 10.1.3.** Visits to site by representatives of the Owner, Engineer, jurisdictional authorities, Contractor, Subcontractors, and suppliers.
- 10.2.** Maintain a progress chart in approved format. Show on chart proposed Work schedule and progress of Work by Contractor and Subcontractor.

11. Examination

- 11.1.** Site:
 - 11.1.1.** Examine site, and ensure that site conditions have been examined, that all are fully informed on all particulars which affect Work thereon and at the place of construction, and in order that construction proceeds competently and expeditiously.
 - 11.1.2.** Ensure by examination that all physical features, and working restrictions and limitations which exist are known.
- 11.2.** Previously Completed Work:
 - 11.2.1.** Verify dimensions of existing Work in place before construction of Work to be incorporated with it.
 - 11.2.2.** Verify that previously executed Work and surfaces are satisfactory for construction, and that performance of subsequent Work will not be adversely affected.
 - 11.2.3.** Commencement of Work will constitute acceptance of site conditions and previously executed Work as satisfactory.
 - 11.2.4.** Report to Engineer defects in prior Work which will affect quality of subsequent Work, or construction schedule.
- 11.3.** Construction Measurements:
 - 11.3.1.** Before commencing installation of Work, verify that its layout is accurate in accordance with intent of Drawings, and that locations, elevations, and clearances to adjacent infrastructure are maintained.
 - 11.3.2.** If Work is installed in wrong location, rectify it before other Work concerned proceeds.

12. PROTECTION OF WORK, PROPERTY & PERSONS

- 12.1.** Include in Work necessary methods, materials, and construction to ensure that no damage or harm to Work, materials, property and persons results from the Work of this Contract. Temporary facilities relating to protection are specified in Section 01 52 00.
- 12.2.** Protect, and if damaged make good, adjacent private and public property.
- 12.3.** Keep surfaces, on which finish materials will be applied, free from grease, oil, and other contamination which would be detrimental in any way to the application of finish materials.
- 12.4.** Protect finished surfaces of completed Work from damage by restriction of access or by use of physical means suitable to the material and surface location. Establish with each Subcontractor the suitability of such protection in each case.
- 12.5.** Protect existing underground infrastructure, mechanical, electrical, telephone and similar services from damage. If necessary, relocate active services to ensure that they function continuously in safety and without risk of damage.
- 12.6.** Cap off and remove unused utility services encountered during Work after approval is given by the utilities concerned or jurisdictional authorities, whichever may apply. Relocation, removal, protection and capping of existing utility services shall be performed only by the applicable utility and of other services by licensed mechanics.
- 12.7.** To prevent soiling or damage to finish flooring where pedestrian traffic occurs after the flooring has been installed, install and maintain 6 mil. polyethylene membrane or reinforced kraft paper temporary protection, secured in place and with joints sealed by reinforced pressure sensitive tape.
- 12.8.** Install plywood panels of minimum ¼" thickness over completed finish flooring materials, on which further construction Work is performed by other trades or delivery of products is made, or both. Seal joints between panels with reinforced pressure sensitive tape.
- 12.9.** Prevent spread of dust beyond the construction zone by wetting, or by other approved means, as it accumulates.
- 12.10.** The outside work area shall be appropriately demarked and/or surrounded by rigid chain link panels or fencing (at the cost of the contractor) to prevent unauthorized entry to the work area. Any area of roof having work completed is to be covered below with this fencing approximately 10' from the edge of the building. It is to be maintained at all times throughout the project. All waste disposal bins are to be fenced in using the same type of fencing as indicated above during working hours. After working hours, all waste disposal bins shall be located a minimum of 25 feet from any structure. Any windows where the debris chute is located are to be covered. All entrances below the roof area are to have covered scaffolding erected to ensure a safe travel path to a distance of ten feet from edge of building. All workers shall contain their activity to the work site area. Access to the school shall only be allowed as

planned in coordination with HRCE Operations and the school administration.

- 12.11.** All security on site shall be coordinated through HRCE using an HRCE preferred vendor.
- 12.12.** The contractor is responsible for the cost of security for all project materials.
- 12.13.** If access to the project site is required inside the building, HRCE will provide security personnel at its own cost.
- 12.14.** The contractor shall keep the work site free from accumulated debris caused by the employees or work and shall remove all debris at the end of each work shift. Debris shall not be deposited in HRCE controlled garbage and/or recycling containers.
- 12.15.** All waste materials and debris created during demolition and/or construction shall be disposed of in a dumpster provided by the contractor, to be removed at the end of the construction project, using a methodology that is in compliance with the applicable HRM solid waste by laws. Otherwise, the material must be removed and disposed of off-site at the end of each working day. The waste materials may not be stored on site unless they are held in an approved project dumpster no closer than twenty five (25) feet from any structure.
- 12.16.** All temporary structures such as portable washroom facilities, materials storage trailer, work trailer, debris dumpster, vehicles, etc., shall be located a minimum of (25) twenty-five feet from the school building.
- 12.17.** Where applicable, a hot work permit will be required to be completed and approved by HRCE prior to commencement of work and all conditions of the permit must be maintained until completion of hot work. A copy of the hot work permit signed by the contractor representative shall be provided to HRCE upon completion of each hot work session. Contractor must assign a designated fire watch as noted on the permit document who shall remain on site for three hours after completion of each hot work session.
- 12.18.** A school washroom will be designated for use where appropriate. However, protection of the surfaces as indicated above must be maintained. It should also be noted that access to the building during summer months will be limited for security reasons. Contractor is responsible to provide temporary portable washroom facilities for general use of contractor staff.
- 12.19.** Access to Interior of School - All interior access is to be scheduled with the PM. This will allow for notice to the school admin., custodial and possible scheduling of a security guard for after hour access.
- 12.20.** Adhesives / Torch Work - All adhesive use and torch work must be completed after school hours. Contractor must assign a designated fire watch as indicated above in 12.17.

13. Cleaning

- 13.1.** Ensure that during and after construction the public streets and existing asphalt parking lot are cleaned as required.

14. Salvage

- 14.1.** Unless otherwise specified, salvaged material resulting from construction, and surplus materials and construction debris shall become property of Contractor, who must dispose of it away from Site.

15. Site Limitations

- 15.1.** Since the existing building will be occupied during the Work (in accordance with the Phasing Schedule) the Architect will designate the precise areas on the site which may be utilized for work and storage, and where personnel will be permitted to be present. Refer also to Drawings. Allow for hoarding to secure construction areas from occupied portions of the Building and Site.
- 15.2.** All access to the construction site is to be coordinated with the Project Manager for HRCE and communicated at the pre-construction meeting.
- 15.3.** Any Work carried out in the building is to be carried out during hours approved by the School Administration.
- 15.4.** Any disruption to services within the building must occur during hours approved by School Administration.
- 15.5.** Any Work which may have an adverse effect on the occupancy functions, must have prior approval of the School Administration and **may** require scheduling during off-hours.

16. Security Regulations

- 16.1.** Perform Work in conformance to the security regulations of the building as directed by the Project Manager for HRCE.

17. Project Identification

- 17.1.** No project sign is required on this Project.

18. Owner's Occupancy

- 18.1.** The Owner reserves the right to occupy and use portions of the Project, whether partially or entirely completed, or whether completed on schedule or not, provided such occupancy does not interfere with the Contractor's continuing Work.
- 18.2.** Partial occupancy or installation by the Owner of his equipment shall not imply acceptance of the Project in whole, or in part, nor shall it imply acknowledgement that terms of the Agreement are fulfilled.

END OF SECTION 01 11 00

SECTION 01 11 25 - PRICES

1. General

- 1.1. Prices included in the Contract shall be complete for the applicable Work, and shall include for each price:
 - 1.1.1. Expenditures for wages and for salaries of workmen, engineers, superintendents, draftsmen, foremen, timekeepers, accountants, expeditors, clerks, watchmen and such other personnel as may be approved, employed directly under the Contractor and while engaged on the applicable Work at the site and expenditures for travelling and HRCE allowances of such employees when required by location of the applicable Work or when covered by trade agreements and when approved; provided, however, that nothing shall be included for wages or salary of the Contractor if an individual, or of any member of the Contractor's firm if the Contractor is a firm or the salary of any officer of the Corporation if the Contractor is a corporation, unless otherwise agreed to in writing.
 - 1.1.2. Expenditures for material used in or required in connection with the construction of the applicable Work including material tests and required by the laws or ordinances of any authority having jurisdiction and not included under Subparagraph .9.
 - 1.1.3. Expenditures for preparation, inspection, delivery, installation and removal of materials, equipment, tools and supplies.
 - 1.1.4. Temporary facilities as required for the applicable Work.
 - 1.1.5. Travelling expenses properly incurred by the Contractor in connection with the inspection and supervision of the applicable Work or in connection with the inspection of materials prepared or in course of preparation for the applicable Work and in expediting their delivery.
 - 1.1.6. Rentals of all equipment whether rented from the Contractor or others, in accordance with approved rental agreements including any approved applicable insurance premiums thereon and expenditures for transportation to and from the site of such equipment, costs of loading and unloading, cost of installation, dismantling and removal thereof and repairs or replacements during its use on the applicable Work, exclusive of any repairs which may be necessary because of defects in the equipment when brought to the Work or appearing within thirty (30) days thereafter.
 - 1.1.7. The cost of all expendable materials, supplies, light, power, heat, water and tools (other than tools customarily provided by tradesmen) less the salvage value thereof at the completion of the applicable Work.
 - 1.1.8. Assessments under the Workmen's Compensation Act, the Unemployment Insurance Act, Canada Pension Act, statutes providing for government hospitalization, vacations

with pay or any similar statutes; or payments on account of usual vacations made by the Contractor to his employees engaged on the applicable Work at the site, to the extent to which such assessments or payments for vacations with pay relate to the Work covered by the specified price; and all sales taxes or other taxes where applicable.

- 1.1.9. The amounts of all Subcontracts related to the specified price.
- 1.1.10. Premiums on all insurance policies and bonds called for under this Contract as related to the specified price.
- 1.1.11. Royalties for the use of any patented invention on the applicable Work.
- 1.1.12. Fees for licenses and permits in connection with the applicable Work. No Building Permit is required for the project.
- 1.1.13. Duties and taxes imposed on the applicable Work.
- 1.1.14. Such other expenditures in connection with the applicable Work as may be approved.
- 1.1.15. Provided always that except with the consent of the Owner, the above items of cost shall be at rates comparable with those prevailing in the locality of the Work.

END OF SECTION 01 11 25

SECTION 01 11 41 - PROJECT COORDINATION

1. Requirements Included

- 1.1. Each Trade Contractor's responsibilities include the coordination of Work within his own Contract and with the Work of other Contracts.

2. Related Requirements

- 2.1. Project Meetings: Section 01 31 19
- 2.2. Submittals: Section 01 33 00

3. Description

- 3.1. Coordinate Work on which subsequent Work depends to facilitate mutual progress, and to prevent conflict between parts of the work.
- 3.2. Ensure that each Section makes known for the information of the Construction Manager and other Sections, the environmental and surface conditions required for the execution of its Work, and the sequence of others Work required installation of its Work.
- 3.3. Ensure that each Section, commencing Work, and that each Section is assisted in the execution of its preparatory Work by Sections depending upon its preparation.
- 3.4. Deliver materials supplied by one Section to be installed by another well before the installation begins.
- 3.5. Sections giving installation information in error, or too late to incorporate in the Work, shall be responsible for having Work done which was thereby additionally made necessary.
- 3.6. Coordinate warranty conditions of interconnected Work to ensure that full coverage is obtained.
- 3.7. Remove work installed in error which is unsatisfactory for subsequent Work.

4. Cutting And Patching

- 4.1. Include under Work of this Section all cutting and patching of asphalt required by the Work.
- 4.2. Finish new surfaces flush with existing surfaces.
- 4.3. Cut and patch as required making work fit.
- 4.4. Make cuts with clean, true, smooth edges.
- 4.5. Patching of existing or new asphalt shall be performed only by workmen with expertise in that particular trade and who normally perform that Trade.
- 4.6. Replace, and otherwise make good, damaged or defective Work. If required by the Construction Manager.

- 4.7. Do not endanger Work or property by cutting, digging, or similar activities. No Section shall cut or alter the Work of another Section unless approved by the Section which has installed it.
- 4.8. Cut and drill with true smooth edges and to minimum suitable tolerances.
- 4.9. If required, before cutting, drilling, or sleeving structural load bearing elements, obtain approval of location and methods.
- 4.10. Cutting, drilling and sleeving of Work shall be done only by the Section which has installed it. The Section requiring drilling and sleeving shall inform the Section performing the Work of the location and other requirements for drilling and sleeving. The Contractor shall directly supervise performance of cutting and patching.
- 4.11. Cutting and Patching for Holes Required by Mechanical & Electrical Work:
 - 4.11.1. Include under Work of Mechanical Divisions cutting or provision of holes up to 8" in diameter and related patching.
 - 4.11.2. Include under Work of this Section holes and other openings required by the work of Mechanical Divisions which are larger than 8" in diameter or least dimension, and chases, bulkheads, furring and required patching. This Section shall be responsible for determination of Work required for holes in excess of 8" diameter or least dimension.
 - 4.11.3. Include under the Work of Electrical Divisions all cutting or provision of holes and related patching for the Work of that Division.
- 4.12. Include under Work of this Section all other cutting and patching required by the Work except as described in Clause .11 above.
- 4.13. Patching or replacement of damaged Work shall be done by the Subcontractor under whose Work it was originally executed, and at the expense of the Subcontractor who caused the damage.
- 4.14. Make patches invisible in final assembly.

5. Quality Assurance

- 5.1. Requirements of Regulatory Agencies:
 - 5.1.1. Make known and coordinate the requirements of jurisdictional authorities, as made explicit by the Contract Documents, and by representatives of such authorities
- 5.2. Source Quality Control:
 - 5.2.1. Ensure that Work meets specified requirements
 - 5.2.2. Schedule, supervise and administer inspection and testing as specified in Section 01 45 00.
- 5.3. Job Records:
 - 5.3.1. Maintain job records and ensure that such records are maintained by subcontractors.

Submittals

- 5.4. Prepare a Project schedule in accordance with Section 01 33 00, and ensure that all subcontractors and suppliers are aware of the details of this schedule, and progressively of their general compliance with the schedule.
- 5.5. Become aware of the required submittals specified in each Section, and expedite submission of such submittals so as not to hinder the Project Schedule.
- 5.6. Review submittals and make comments as specified in Section 01 33 00.

6. Job Conditions

- 6.1. Ensure that Work proceeds under conditions meeting specified environment and job safety requirements
- 6.2. Ensure that protection of adjacent property and the Work is adequately provided and maintained to meet specified requirements.

7. Product Delivery, Storage And Handling

- 7.1. Site has limited spaces for storage, only delivery of materials agreed upon by the Construction Manager will be allowed. Comply with Construction Manager's allocations. Any requirement for modifications to the building in order to allow delivery and storage of the materials to complete this work is the responsibility of the contractor.
- 7.2. Schedule delivery of products & removal of material with Construction Manager.
- 7.3. Make available areas for storage of products and construction equipment to meet specified requirements, and to ensure a minimum of interference with progress of the Work and relocations.
- 7.4. Trade Contractor to provide flag persons, traffic signals, barricades and Flares/lights/lanterns as required to perform the Work and to protect the public.
- 7.5. Material and Waste - Deliveries and Removals - Must be coordinated to be completed 30 minutes after school dismissal where applicable.

END OF SECTION 01 11 41

SECTION 01 31 19 – PROJECT MEETINGS

1. Pre-Award Meeting

- 1.1. A Pre-award meeting will be held at which time the following will be addressed:
 - 1.1.1. Owner and HRCE's functions.
 - 1.1.2. The Consultant and the Consultant's functions.
 - 1.1.3. The General Contractor and the General Contractor's functions.
 - 1.1.4. Documentation requirements from the General Contractor.
 - 1.1.5. Obligees for Performance and Payment Bonds from Sub-contractors.
 - 1.1.6. Progress Claims.
 - 1.1.7. CO's & CCO's.
 - 1.1.8. Construction Schedule.
 - 1.1.9. Project Start-up.
 - 1.1.10. Job Meetings.
 - 1.1.11. Superintendent – General Contractor's Representative.
 - 1.1.12. Design / Administration authority.
 - 1.1.13. Owner's Representative.
 - 1.1.14. Special Consultants.
 - 1.1.15. Quality of Workmanship.
 - 1.1.16. Accountability.
 - 1.1.17. Harmonized Sales Tax.
 - 1.1.18. Contract Close-out Documentation.

2. Preconstruction Meeting

- 2.1. Within fifteen (15) days after award of Contract, arrange a meeting between the Consultant, Subcontractors, Project Superintendents, Inspection and Testing Company Representatives, and representatives of others whose coordination is required during construction.
- 2.2. Discuss at the meeting the means by which full cooperation and coordination of the participants during construction can be achieved.
- 2.3. Document the responsibilities and necessary activities of the participants during construction as discussed and distribute to each participant.
- 2.4. Establish procedures for maintenance and completion of Project record drawings specified in Section 01 77 00.
- 2.5. Review and establish methods of maintaining life safety and egress for the school occupants. Communicate these methods thoroughly with the School Principal.

3. Progress Meeting

- 3.1. Invite representatives of HRCE, to attend twice monthly site meetings called by the Contractor during the progress of the Work.

- 3.2. Inform HRCE of each meeting and of proposed agenda a minimum of five (5) days before meeting.
- 3.3. Submit proposed schedule of site meetings to Engineer and Owner.
- 3.4. Record, prepare and distribute minutes of each meeting to HRCE and to each other participant within 72 hours of meeting.
- 3.5. Ensure that all representatives who attend meetings have the authority to conduct business on behalf of firms they represent.
- 3.6. Details of Progress Meetings to be discussed at the project start-up meeting.

4. Suggested Agendum (Preconstruction Meeting)

- 4.1. Distribution and discussion of:
 - 4.1.1. List of major subcontractors and suppliers.
 - 4.1.2. Projected Construction Schedules.
- 4.2. Critical work sequencing.
- 4.3. Major equipment deliveries and priorities.
- 4.4. Project Coordination:
 - 4.4.1. Designation of responsible personnel.
- 4.5. Procedures and Processing of:
 - 4.5.1. Field decisions
 - 4.5.2. Proposal requests
 - 4.5.3. Submittals
 - 4.5.4. Change orders
 - 4.5.5. Applications for Payment.
- 4.6. Adequacy of distribution of Contract Documents.
- 4.7. Procedures for maintaining Record Documents.
- 4.8. Use of premises:
 - 4.8.1. Office, work and storage areas.
 - 4.8.2. Owner's requirements.
- 4.9. Construction facilities, controls and construction aids.
- 4.10. Safety/Tool Box Meetings.
- 4.11. Security procedures.
- 4.12. Housekeeping procedures.
- 4.13. Egress/life safety procedures

5. Suggested Agendum (Progress Meetings)

- 5.1. Review and approval of minutes of previous meeting.
- 5.2. Safety meeting minutes.
- 5.3. Review of work progress since previous meeting.
- 5.4. Field observations, problems, conflicts.
- 5.5. Problems which impede Construction Schedule.
- 5.6. Review of off-site fabrication, delivery Schedules.

- 5.7. Corrective measures and procedures to regain projected schedules.
 - 5.8. Revisions to Construction Schedules.
 - 5.9. Maintenance of quality standards.
 - 5.10. Pending changes and substitutions and effect on Construction Schedule.
 - 5.11. Other Business.
-
- 6. Attend, with representatives of HRCE weekly meetings with the School Administration to review construction activities and concerns of Building Occupants.
 - 7. Quarterly meetings with Contractor and the HRCE / User during Warranty Period including major sub-trade contractors.
 - 8. Dates for meetings will be set at time of completion.

END OF SECTION 01 31 19

SECTION 01 33 00 – SUBMITTAL PROCEDURES

1. General Requirements

- 1.1. Make submittals specified in this Section to Consultant unless otherwise specified, with additional submissions made, in manner that they direct, to other parties involved with construction of the Project as their interests are concerned. These parties are, but shall not be restricted to, consultants, jurisdictional authorities, and Subcontractors whose Work must be coordinated with Work related to Submittals.
- 1.2. Ensure that submissions are made to allow sufficient time for review without the construction schedule being delayed.

2. Document Submissions Required

- 2.1. At Commencement of Contract:
 - 2.1.1. Performance and Payment Bonds.
 - 2.1.2. Public Liability and Property Damage Insurance Certificates.
 - 2.1.3. List of Subcontractors by firm name.
 - 2.1.4. Construction Schedule and other required schedules and estimates.
 - 2.1.5. Site Specific Safety Plan/Safety Policy.
 - 2.1.6. Workers' Compensation Board status.
- 2.2. During Construction:
 - 2.2.1. Weekly progress reports.
 - 2.2.2. Job meeting reports and minutes.
 - 2.2.3. Updated construction schedules.
 - 2.2.4. Shop drawings as required.
 - 2.2.5. Inspection and test reports.
 - 2.2.6. Daily communication of Hot Work Permits as needed.
- 2.3. Submissions at completion of Work are specified in Section 01 77 00, Contract Closeout.

3. Administrative

- 3.1. Submit to Consultant submittals listed for review. Submit promptly and in orderly sequence to not cause delay in Work. Failure to submit in ample time is not considered sufficient reason for extension of Contract Time no claim for extension by reason of such default will be allowed.
- 3.2. Do not proceed with Work affected by submittal until review is complete.
- 3.3. Present shop drawings, product data, samples and in Imperial units.
- 3.4. Review submittals prior to submission to Consultant. This review represents that necessary requirements have been determined and verified, or will be, and that each submittal has been

checked and coordinated with requirements of Work and Contract Documents. Submittals not stamped, signed, dated and identified as to specific project will be returned without being examined and considered rejected.

- 3.5. Notify Consultant in writing at time of submission, identifying deviations from requirements of Contract Documents stating reasons for deviations.
- 3.6. Verify field measurements and affirm that affected adjacent work is coordinated.
- 3.7. Contractor's responsibility for errors and omissions in submission is not relieved by Consultant's review of submittals.
- 3.8. Contractor's responsibility for deviations in submission from requirements of Contract Documents is not relieved by Consultant's review.
- 3.9. Keep one review copy of each submission on site.

4. Construction Schedules

- 4.1. Submit proposed construction schedule at beginning of Project, as specified in Project Documents.
- 4.2. As construction progresses, submit up-dated construction schedules as specified in Project documents.

5. Shop Drawings And Product Data

- 5.1. The term "shop drawings" means drawings, diagrams, illustrations, schedules, performance charts, brochures and other data which are to be provided by Contractor to illustrate details of a portion of Work.
- 5.2. Submit drawings stamped and signed by professional consultant registered or licensed in Province of Nova Scotia of Canada.
- 5.3. Indicate materials, methods of construction and attachment or anchorage, erection diagrams, connections, explanatory notes and other information necessary for completion of Work. Where articles or equipment attach or connect to other articles or equipment, indicate that such items have been coordinated, regardless of Section under which adjacent items will be supplied and installed. Indicate cross references to design drawings and specifications.
- 5.4. Allow seven (7) days for Consultant's review of each submission. Do not proceed with work involving relevant products until completion of shop drawing review.
- 5.5. Adjustments made on shop drawings by Consultant are not intended to change Contract Price. If adjustments affect value of work, state such in writing to Consultant prior to proceeding with work.
- 5.6. Make changes in shop drawings as Consultant may require, consistent with Contract Documents. When resubmitting, notify Consultant in writing of revisions other than those requested.

Accompany submission with transmittal letter, in duplicate, containing:

- 5.6.1. Date
- 5.6.2. Project title and number
- 5.6.3. Contractor's name and address
- 5.6.4. Identification and quantity of each shop drawing, product data and sample.
- 5.6.5. Other pertinent data.
- 5.7. Submission to include:
 - 5.7.1. Date and revision dates.
 - 5.7.2. Project title and number.
 - 5.7.3. Name and address of:
 - 5.7.3.1. Subcontractor.
 - 5.7.3.2. Supplier.
 - 5.7.3.3. Manufacturer.
 - 5.7.4. Contractor's stamp, signed by Contractor's authorized representative certifying approval of submissions, verification of field measurements and compliance with Contract Documents.
 - 5.7.5. Details of appropriate portions of Work as applicable:
 - 5.7.5.1. Fabrication.
 - 5.7.5.2. Layout, showing dimensions, including identified field dimensions, and clearances.
 - 5.7.5.3. Setting or erection details.
 - 5.7.5.4. Capacities.
 - 5.7.5.5. Performance characteristics.
 - 5.7.5.6. Standards.
 - 5.7.5.7. Relationship to adjacent work.
- 5.8. After Consultant's review, distribute copies.
- 5.9. Submit for review one electronic copy in PDF file format of shop drawings for each requirement requested in specification Sections and as Consultant may reasonably request.
- 5.10. Submit electronic copies of product data sheets for brochures for requirements requested in specification Sections and as requested by Consultant where shop drawings will not be prepared due to standardized manufacture of product.
- 5.11. Submit electronic copies of test reports for requirements requested in specification Sections and as requested by Consultant.
 - 5.11.1. Report signed by authorized official of testing laboratory that material, product or system identical to material, product or system to be provided has been tested in accord with specified requirements.
 - 5.11.2. Testing must have been within three (3) years of date of contract award for project.

- 5.12.** Documentation of testing and verification actions taken by manufacturer's representative to confirm compliance with manufacturer's standards or instructions.
- 5.13.** Delete information not applicable to project.
- 5.14.** Supplement standard information to provide details applicable to project.
- 5.14.1.** If upon review by Consultant, no errors or omissions are discovered or if only minor corrections are made, copies will be returned, and fabrication and installation of work may proceed. If shop drawings are rejected, noted copy will be returned and resubmission of corrected shop drawings, through same procedure indicated above, must be performed before fabrication and installation of work may proceed.
- 5.14.2.** Without restricting generality of foregoing, Contractor is responsible for dimensions to be confirmed and correlated at job site, for information that pertains solely to fabrication processes or to techniques of construction and installation and for coordination of work of sub-trades.
- 5.15.** Shop Drawings are specified for submission under the following:
- Section 07 52 00 Two-Ply Modified Bittumen Roofing
 - Section 07 62 00 Metal Flashing and Trim
 - Section 22 13 00 Piping and Drainage
- All pre-manufactured Mechanical & Electrical items as noted in Mechanical & Electrical Divisions.

6. SAMPLES

- 6.1.** Submit for review samples in duplicate as requested in respective specification Sections, as requested by the Consultant. Label samples with origin and intended use.
- 6.2.** Deliver samples prepaid to Consultant's business address.
- 6.3.** Notify Consultant in writing, at time of submission of deviations in samples from requirements of Contract Documents.
- 6.4.** Adjustments made on samples by Consultant are not intended to change.
- 6.5.** Make changes in samples which Consultant may require, consistent with Contract Documents.
- 6.6.** Reviewed and accepted samples will become standard of workmanship and material against which installed work will be verified.
- 6.7.** Samples are specified for submission under the following Sections: N/A

7. Record Drawings

- 7.1.** Record, as the Work progresses, changes and deviations in the location of Work concealed by the finished Work, and such other approved changes that occur during progress of Work, to ensure that an accurate record is provided for future maintenance and alterations.
- 7.2.** White prints will be provided by the HRCE for use in preparing record drawings. Record changes in the Work on these prints in red ink.
- 7.3.** Dimension location of concealed Work in reference to building walls, and elevation in reference to floor elevation. Indicate at which point dimension is taken to conceal Work. Dimension all terminations and offsets of runs of concealed work.
- 7.4.** Record work constructed differently than shown on Contract Documents, changes in the work caused by site conditions, by Owner, Consultant, Contractor and Subcontractor originated changes, and by site instructions, supplementary instructions, field orders, change orders, addenda, correspondence and directions of jurisdictional authorities.
- 7.5.** Record location of mechanical and electrical services, piping, valves, conduits, pull boxes, junction boxes and similar work not clearly in view, and position of which is required for maintenance, alteration work and future additions. Do not conceal critical work until its location has been recorded.
- 7.6.** Identify record drawings as a "Project Record Copy". Maintain in good condition, do not use for construction purposes and make available to Consultant at all times.
- 7.7.** Submit record drawings at completion of Work. Final acceptance of the Work will be predicated on receipt and approval of record drawings.

8. Extra Stock

- 8.1.** Supply extra stock at completion of Project as specified in other Sections of the Project Manual.
- 8.2.** Deliver extra stock as directed by the Architect to location he designates.
- 8.3.** Extra stock is specified to be supplied in the following Sections:

Section 09 30 13 Ceramic Tile

Section 09 51 13 Acoustical Ceiling Units

Section 09 65 19 Resilient Tile Flooring

Section 09 91 23 Painting

Refer to Mechanical & Electrical Divisions for Extra Stock requirements in those Trades.

9. Maintenance Manual & Operating Instructions

- 9.1.** Submit three (3) copies of Maintenance Manual with application for completion certificate.

- 9.2. Include in Maintenance Manual one (1) copy of each final approved shop drawing issued for Project on which have been recorded changes made during fabrication and installation caused by unforeseen conditions.
- 9.3. Submit extended guarantees together in one (1) report binder.
- 9.4. The Manuals shall:
 - 9.4.1. Consist of a hard-cover, black, vinyl-covered, loose-leaf, letter-size binder.
 - 9.4.2. Have a title sheet, or sheets preceding data on which shall be recorded Project name, Project number, date, list of contents, and Contractor's and Subcontractors' names.
 - 9.4.3. Be organized into applicable Sections of Work with each Section separated by hard paper dividers with plastic covered tabs marked by Section.
 - 9.4.4. Contain only typed or printed information and notes, and neatly drafted drawings.
 - 9.4.5. Contain maintenance and operating instructions on all building, and mechanical and electrical equipment.
 - 9.4.6. Contain maintenance instructions as specified in various Sections.
 - 9.4.7. Contain brochures and parts lists on all equipment.
 - 9.4.8. Contain sources of supply for all proprietary products used in the Work.
 - 9.4.9. Contain lists of supply sources for maintenance of all equipment in Project of which more detailed information is not included above.
 - 9.4.10. Contain finished hardware schedule.
 - 9.4.11. Contain charts, diagrams and reports specified in Mechanical & Electrical Divisions.

10. Extended Warranties

- 10.1. Submit the extended warranties listed in this Article and as specified in each applicable Section of this Project Manual.
- 10.2. Extended warranties shall commence on termination of the standard one-year warranty granted in this Contract.
- 10.3. Submit each extended warranty on a standard Form of Warranty, a sample of which is included in this Section.
- 10.4. Secure each extended Warranty by a Maintenance Bond in an amount indicated.
- 10.5. Submit extended warranties for:

Section 07 52 00 Two-Ply Modified Bitumen Roofing Systems

11. Inspection Laboratory Reports

- 11.1. Submit copies of inspection and test reports obtained by the Contractor and Subcontractors for their Work or for Jurisdictional Authorities, if requested by Consultant.
- 11.2. Submit reports in accordance with requirements specified in Section 01 41 00.

12. Documentation On Suppliers & Manufacturers

- 12.1.** Provide information under headings identifying the following: Associated Technical Section, Manufacturer, Supplier, Contact Name, and Phone Numbers.

SAMPLE FORM OF WARRANTY FOLLOWS THIS PAGE

Sample Form for Warranty

Date

Client

Project

.....

Warranty
(title of work)

We hereby undertake to warrant all materials supplied and installed under our Contracts and include the providing of necessary materials and labour to cover the result of faulty materials or workmanship. Upon written notification from Client or the Architect that the above work is defective any repair or replacement work required shall be to the Architect's satisfaction at no cost to the Client. This Warranty shall not apply to defects caused by the work of others, maltreatment of materials, negligence or Acts of God. This Warranty shall remain in effect for the total period from the acceptance of the Work to (...date...), irrespective of the date of completion or the beneficial use by the Owner.

Signature

Authorized Signing Officer

Name of Firm

Address

END OF SECTION 01 33 00

SECTION 01 35 13 – APPENDIX A - SPECIAL PROJECT PROCEDURES

1. Introduction

- 1.1. School construction, renovation and maintenance projects are scheduled every year as a normal and necessary course of business by operations departments in each Nova Scotia Centre for Education. Building modifications, repairs and additions/demolitions to buildings may impact the school environment without appropriate controls. With increased controls based primarily on the CSA standards implementation, proper scheduling and clear communication on adequate controls can be put into place to eliminate/minimize the impact to all occupants.
- 1.2. Projects of this nature may generate varying levels of dusts, noises and odors. It is possible, unknown/unforeseeable environmental contaminants, such as spills, mold, fumes, lead or asbestos exposure maybe identified.
- 1.3. To successfully complete work within the school environment, it is necessary to plan and implement appropriate containment and control strategies. This document is developed to provide a minimum standard for contaminant controls for various types of projects in schools. These standards are in addition to and should complement all legislated protocols for working with regulated materials such as asbestos, lead paints, PCB's etc.
- 1.4. Executing a successful project will depend primarily on clear, concise communication. This may involve a number of parties (Project Manager, Operations staff, School Administration and Health & Safety staff and Joint Occupational Health & Safety Committee).

2. Communication Plan

- 2.1. The most critical element of any project management plan is effective communication between all stakeholders. Communication between the Operations project manager/supervisor, the contractor and school administrators before the start of a project is very important. This meeting is meant to explain the scope, schedule and risk assessment for the project. The meeting will also help establish clear expectations when managing planned and unplanned exposure risks associated with contaminant controls.
- 2.2. The communication plan shall include:
 - 2.2.1. A description of potential contaminants, which may include but is not limited to:
 - 2.2.1.1. Particulates (dirt, concrete/silica, steel, fiberglass, wood dust, ash, cellulose, etc.)
 - 2.2.1.2. Moisture: external water infiltration, internal system leaks (domestic water, sanitary, storm, sprinkler)
 - 2.2.1.3. Noise from equipment/tool operation,
 - 2.2.1.4. Fumes/odors from equipment exhaust, boiler exhaust, septic waste, chemical/adhesives, etc.

- 2.2.1.5. Hazardous materials including, asbestos, PCB, mercury, lead, fuel oil, fungi/mould, etc.
 - 2.2.1.6. Excessive heat/cold
 - 2.2.2. A description of the control measure which may include but not be limited to:
 - 2.2.2.1. Isolation within an enclosure (water, noise, hazardous materials)
 - 2.2.2.2. Ventilation and filtration
 - 2.2.2.3. Dehumidifiers/blowers (moisture)
 - 2.2.2.4. Personal protective equipment
 - 2.2.2.5. Schedule outside or inside school hours
 - 2.2.2.6. Sound dampeners
 - 2.2.2.7. Monitoring
 - 2.2.2.8. Security
 - 2.2.3. Other Hazards created by the work, including but not limited to fire safety and the need to alter fire safety plans.
- 2.3. For small routine work orders the communication plan may only involve one tradesperson and the school principal or designate. This communication is equally as important for management of contaminant controls.

3. Contaminant Control Management

- 3.1. Regardless of the contaminant or control measure used, the following procedures shall apply for every project:
 - 3.1.1. Every project, including all routine work requests, shall be assessed, as per this document, by appropriate personnel for potential contaminant risk.
 - 3.1.2. Clear lines of communication must be established between project personnel, site supervisor or project manager and the school administration.
 - 3.1.3. Control strategies as per this document, shall be, communicated to workers as well as the site JOHSC and implemented prior to starting the work.
 - 3.1.4. Where isolation is used as a control, all entry points must be clearly posted to describe the purpose of the enclosure and limitations of access.
 - 3.1.5. During the execution of the project, the control measures must be regularly inspected and maintained before the start of each work shift, and throughout the shift as required.
 - 3.1.6. A process for stop work and remediation orders must be established to ensure the project manager; site supervisor and school administrator have a means to cease project operations when a contaminant control breach may impact the school environment. Breached control measures must be reported immediately to HRCE project manager upon discovery. He/she will be responsible to communicate to the school principal or designate. Work shall be stopped immediately until the control measures are re-established.

- 3.1.7.** Access to the controlled work site is only permitted by authorized personnel. The project supervisor or designate shall determine appropriate personal protective equipment (PPE) and necessary worker orientation.

4. Particulate Control

- 4.1.** Exposure to minimal levels of dust is a normal condition in most outdoor and indoor environments and is typically controlled inside a building through building ventilation, filtration and routine housekeeping measures. However, as noted, construction projects generally create elevated dust levels in work areas, whether inside or outside of a building.
- 4.2.** Operational Services Managers must ensure maintenance staff and contracted service providers implement dust control measures appropriate for the type and scope of work being performed. This will include assessing the type and amount of dust being created as well as the location of the work being conducted.
- 4.2.1.** Interior Construction Projects:
- 4.2.2.** Construction projects may be described as projects that may include window replacement, wall creation/demolition, etc.
- 4.3.** As a minimum for these types of construction projects, all interior entry points into a construction zone must be effectively sealed. The barrier must prevent contaminants from the work area to be distributed to other areas of the school. Appropriate signage must be posted to indicate only authorized persons are permitted access.
- 4.4.** Entrance design could range from a two flap plastic tarp door to a fully constructed sealed entry door with negative hepa-filtered ventilation on the construction side of the barrier.
- 4.5.** Exterior Construction Projects:
- 4.5.1.** Exterior work shall be performed so as not to affect the safety of building occupants. It will also provide controls to avoid impact to adjacent properties. Depending up on the results identified in the risk assessment, at a minimum consideration must be given to prevent dust from entering into the school environment. This may be controlled through isolation, dampening application, closing building AHU and window/door openings.

5. Noise Control

- 5.1.** Hearing plays an essential role in communication, speech and language development and learning within a school environment. During construction the contractor is responsible for ensuring acceptable noise levels will be adhered to for the HRCE staff and students within the building. Noise related to a project may prove to be very distracting for staff and students. To minimize distractions and interruptions in student learning the following are important to consider:
- 5.1.1.** Contractors are responsible to ensure appropriate noise control measures are taken
- 5.1.2.** "No work" periods may need to be incorporated into construction schedules

- 5.1.3. Work causing a noise disruption may need to take place during unoccupied times and/or during pre-determined acceptable times of the day (i.e. before and after class times)
- 5.1.4. It may be necessary for the School Administrator to make a request to the HRCE Project Manager or the Contractor to exclude undertaking certain noisy activities during particular periods and/or activities.

6. Moisture Control

- 6.1. Moisture levels are to be controlled during construction and maintenance activities. Moisture levels above normal may impact the air in the room and/or building and may also penetrate building materials giving the potential to lead to mould growth.
- 6.2. Certain activities (i.e. tape and mud of drywall, painting, pressure washing, concrete cutting with water or other water-based dust-suppression) introduce high amounts of moisture into the room environment and ventilation and or drying is required to control local moisture.
- 6.3. An enclosure properly set-up to contain other contaminants will similarly contain/control high levels of airborne moisture. A wet-vac should be available on-site for activities which have a risk of water spillage of more than 5 gallons at any instance.
- 6.4. Standing and or stagnate water must be avoided on construction sites, for a number of reasons, including, but not limited to; insects breed in these bodies of water, the water may give off odours, it is a nuisance to walk through, and it may be an ice hazard in cold weather.
- 6.5. It is important that all water leaks and flooding are reported immediately to the HRCE's project manager and building supervisor. Where works to existing "plumbing" is to occur the water lines (potable, heating, fire suppression) must be isolated and drained (de-energized/de-pressurized) following Lock Out - Tag Out procedure. Adequate supplies such as buckets and absorbents should be present when drains are not available to drain a line.
- 6.6. When an interruption to the water supply, potable or service, is to occur then the "owner's representative" and building supervisor should be notified 24 hours in advance. Bottled water provision may be required.
- 6.7. Materials used in the construction and or maintenance activities are to be stored in dry areas. The introduction of materials to the activities with moisture levels above the acceptable (XXX%)CNBC states for wood, on dry weight basis, a max of 19%, I can't find info on drywall but assume it is much lower range is prohibited as these materials are highly susceptible to colonization by mould spores.

7. Fumes

- 7.1. Fumes may be produced on a project site for a variety of reasons such as use of motorized equipment, off gassing of sealants, adhesives and finish products, cutting/torching processes, exposure of sanitary systems, process ignition gases such as propane and acetylene, proximity of project temporary washrooms, radon, etc.
- 7.2. The impact of fumes on occupants may range from discomfort to health risk, to life safety risk.

- 7.3. The project manager or supervisor must ensure that all potential fume sources are identified and remedial or control measures included in the scope of work by the contractor.
- 7.4. Monitoring equipment may be required to determine for example radon exposure or safety of confined space access.

8. Activity Assessment

- 8.1. Activities that may produce contaminants which require control may be considered as low, medium and high impact.
- 8.2. Low impact activities include routine maintenance and repairs that may create localized dust or odors or brief periods of noise which are not considered harmful to occupants but may be a nuisance which requires minimal control. These may include activities such as opening ceiling tiles or gyproc walls, replacing a plumbing fixture, paint touch ups, drilling through a wall, etc.
- 8.3. Medium impact activities include larger repair jobs or longer duration projects that will create more wide spread levels of contaminant which must be controlled to prevent exposure to building occupants. Boiler cleaning, ceiling replacement, long periods of hammer drilling, etc.
- 8.4. High impact activities include large demolition and construction projects, or jobs with exposure to contaminants that are a risk to health or life safety such as asbestos remediation, mould abatement, lead paint clean up, etc.

9. Hazard Assessment

- 9.1. A hazardous assessment is required to be completed for each job to ensure hazards are identified and corresponding controls are implemented. Depending upon the circumstances at the site it may be necessary to upgrade and/or add other precautions.
- 9.2. Determine the most appropriate hazard classification and apply the corresponding protocols. The attached hazard assessment identifies the minimum controls that must be in place during the corresponding activities. Depending on the specific circumstances at a site further controls may be required. When the hazards are deemed to be in the C or F category the form including specific controls must be submitted to the HRCE for review, prior to commencing work. The contractor may still be required to complete their own hazard assessment of the job/work.

10. Contaminant Controls Procedure for initiating work for all Contaminant Controls:

10.1. Contaminant Control I

- 10.1.1. The tradesperson or project manager for the HRCE will discuss the details, including the scope and any impacts of the job/project with the principal.
- 10.1.2. Ensure fire exiting requirements and life safety systems are addressed or adequate mitigating plans are implemented for the building, construction staff and building occupants.
- 10.1.3. Presence of lead paint or ACM's (Asbestos Containing Materials) must be determined prior to the start of any job. Specific protocols or Codes of Practice may apply.

- 10.1.4. Consideration will be given for work that is anticipated to generate significant noise, odours or VOC's (Volatile Organic Compounds) and this will be scheduled outside of school hours or during times when the noise will not disrupt occupant activities. This will require coordination with the Principal.
 - 10.1.5. The work area shall be isolated where possible. This may be achieved at varying levels, by closing doors and opening outside windows for ventilation or by installing appropriate hoarding and negative pressure units to ensure contaminants are not circulated throughout the school causing further health and safety concerns.
 - 10.1.6. Dust shall be minimized during the activity. When drilling, sanding or cutting is taking place, wetting the area may be necessary to reduce dust.
 - 10.1.7. Good housekeeping practices shall be maintained at all times on the work site. Bag and remove dust and debris from the building as soon as possible.
 - 10.1.8. Possible environmental impacts shall be managed and minimized. If work uncovers environmental contaminants or suspected contaminants such as oil spills (current or historic) or potentially friable asbestos materials (check the school asbestos audit) that may be disturbed, this information shall be brought to the attention of the HRCE's employee responsible for the project so that appropriate actions can be taken.
 - 10.1.9. When the activity is completed the work area shall be inspected and cleaned. Dust and debris shall be removed from the area and all efforts will be made to return items to their pre-maintenance activity location.
 - 10.1.10. The Principal shall be notified that the work is completed.
- 10.2. Contaminant Control II** - All Contaminant Control I measures shall apply, as well as;
- 10.2.1. Cover furniture, bookshelves and teaching materials with plastic sheets.
 - 10.2.2. Water misting while performing dust generating activities may be required.
 - 10.2.3. Seal un-used doors. Seal wall penetrations, electrical outlets, or any other source of air leaks in the construction area.
 - 10.2.4. Seal exhaust air vents in construction area and open the windows. If possible shut down air handling system in the area for duration of project.
 - 10.2.5. A walk out mat at exterior of exit door to trap dust may be required.
- 10.3. Contaminant Control III** - All Contaminant Control I and II measures shall apply, as well as;
- 10.3.1. Install an impermeable dust barrier from the true ceiling to the floor consisting of two layers of 6 mil fire retardant polyethylene or solid wall and sealed door. The wall shall remain in place until the job is finished and the clean-up is completed.
 - 10.3.2. Seal all wall penetrations.
 - 10.3.3. Seal off all return and supply air handling ducts and close all windows.
 - 10.3.4. Turn off the air handling system in the area of construction.
 - 10.3.5. Maintain negative air pressure in the construction area using HEPA filter equipped exhaust ventilation. The pressure differential between the project area of contamination and the building's occupied areas shall be demonstrable by a means approved by the HRCE employee responsible for the project.

- 10.3.6. Ensure that the air is exhausted directly outside and away from intake vents.
- 10.3.7. Vacuum all horizontal surfaces including drop cloths with a hepa vacuum.
- 10.3.8. Remove drop cloths.
- 10.3.9. Vacuum again all horizontal surfaces with HEPA Vacuum.
- 10.3.10. Restore ventilation.
- 10.3.11. Remove enclosure and equipment.

10.4. Control IV: (External Work)

- 10.4.1. External work may impact building interior or occupants.
- 10.4.2. To reduce the impact to building interior or occupants, it may be necessary to contain the work area from impacting building interior. This may include closing or opening windows, tarping ceilings to capture debris or water, temporary relocation of occupants or ventilation controls.
- 10.4.3. The job supervisor shall consider weather conditions and forecast to reduce the effect of any weather impacts to the building materials or building occupants.
- 10.4.4. It may be necessary to use protective tarps and ground cover sheets below equipment and work areas to contain building debris such as paint chips, materials, dust or oil from equipment.
- 10.4.5. When the job is completed and the tarps have been lifted, inspect the ground around the job for debris and clean as necessary.

Fire Protection

- 10.5. Type V: General Fire Protection
 - 10.5.1. Ensure fire exiting requirements and life safety systems are addressed or adequate mitigating plans are implemented for the building, construction staff and building occupants. Staff must be aware of temporary modifications to fire safety plans.
 - 10.5.2. MSDSs for all materials to be used must be reviewed and available on site.
 - 10.5.3. Construction materials stored outside must be a minimum distance of ten feet from the building and be in a secured area.
 - 10.5.4. Flammable or Combustible liquids must be stored as per Fire Code requirements. All flammable and combustible liquids or materials must be kept in a secure area at all times.
- 10.6. Control VI: Fire Protection (minor hot work) - All Contaminant Control V shall apply as well as;
 - 10.6.1. Notify the Principal that a risk of fire has increased and the area in which the hot work will occur.
 - 10.6.2. Refer and implement the HRCE's hot work permit process. At a minimum the following should be considered;
 - 10.6.2.1. Sweep the work area and remove all unnecessary materials in the vicinity; particularly all combustible and flammable materials and liquids shall be removed from the area (35 feet).
 - 10.6.2.2. Have an appropriate size fire extinguisher available.

- 10.6.2.3.** Inspect the work location for areas (such as a hole in the wall) where hot material or sparks could fall and smolder and close them off so that any hot debris can only fall within your field of view.
- 10.6.2.4.** If it is possible that the flame will go past the object being welded or soldered and excessively heat a flammable or combustible material, then either protect that material with a non-flammable material or wet the material and keep it wetted during the use of heat or grinding.
- 10.6.2.5.** Remain in the area while the joint and/or heated materials cool to room temperature (ambient) while checking for the smell or appearance of smoke in the area.
- 10.6.2.6.** Stay in the area for at least 2 hours and then re-inspect for any smell or appearance of smoke.
- 10.6.2.7.** Ask another staff person to inspect the area for the smell or appearance of smoke. Record who you asked to do the final inspection.
- 10.6.3.** Type VII: Fire Protection (hot work w fire watch) - All Contaminant Control V and VI shall apply as well as;
- 10.6.4.** Notify the Principal that a risk of fire has increased and the area in which the hot work will occur. If any life safety system components (sprinkler, detectors, fire alarms) are not function, hot work should not proceed until these systems are functioning unless fire watch procedures for life systems are followed. See Activation of Fire Watch for Life Safety Systems checklist. Appendix...XX
- 10.6.5.** Refer and implement the HRCE's hot work permit process. At a minimum the following should be considered;
 - 10.6.5.1.** Cover all floor openings with fire stop material. Seal duct work openings with metal covers or blankets and close all doors.
 - 10.6.5.2.** Ensure that there are no potentially explosive atmospheres in the area.
 - 10.6.5.3.** Hot work on vessels, pressure tanks or boilers, use only contractors who are qualified by nationally or internationally recognized boiler and pressure vessel code.
 - 10.6.5.4.** Notify the local fire department of the type of work and the work schedule.
 - 10.6.5.5.** Before hot work is started, designate one employee responsible to complete the fire watch: while work is in progress, during lunch breaks and other breaks and for one hour after all flames are extinguished for the day and monitor the area for an additional two hours. After three hours after the last flame has been extinguished, have a second employee do a final survey of the area for smells or evidence of smoldering or fire and record the inspection.

APPENDIX
Fire Watch Activation Checklist

1. Documentation (identify locations to be checked on an hourly basis, provide contact information for relevant HRCE staff and outside agencies} HRCE provided template to be used for documentation.
2. Procedure reviewed with Custodian or individual responsible for fire watch. Any high-risk areas shall be identified to be highlighted on the documentation page and checked during the rounds.
3. Staff working in the building have been notified of the Fire Watch and that they are responsible to monitor areas for signs of fire or smoke and have been reminded of required actions to take according to the school fire safety plan.
4. Staff responsible for fire watch have been trained in how to use a fire extinguisher. (PASS)
5. Staff responsible for the fire watch have a means of communication (cell phone or walkie-talkies)
6. Staff responsible for the fire watch are aware of the procedure for initiating fire alarm and what systems are functioning. i.e. systems (sprinklers, alarm panel or if school has monitoring company or if calling 911 is required)
7. The School Insurance Program (SIP) Emergency Information Line has been notified 1-902-448-2840
8. All relevant information has been documented in the school's fire books. Including date, time and reason for fire watch.

Fire Watch De-Activation Checklist

1. Document the date, time and actions taken to remedy the deficiency requiring the fire watch.
2. School Insurance Program (SIP) has been notified.
3. Copy of the Fire Watch documentation is kept in the fire book and the original is sent to the HRCE Project Representative.

END OF SECTION 01 35 13

SECTION 01 35 29 - OCCUPATIONAL HEALTH & SAFETY REQUIREMENTS

1. References

- 1.1. CSA S269.1-1975 Falsework for Construction Purposes.

2. CONSTRUCTION SAFETY MEASURES

- 2.1. Observe construction safety measures of:
 - 2.1.1. National Building Code 2010, Part 8
 - 2.1.2. National Fire Code of Canada
 - 2.1.3. Provincial Government, including but not limited to the:
 - 2.1.3.1. Occupational Health & Safety Act revised Statutes of Nova Scotia 1996, Chapter 7 and regulations.
 - 2.1.3.2. Workers' Compensation Act
 - 2.1.3.3. Fire Protection Act
 - 2.1.3.4. Dangerous Goods Transportation Act
- 2.2. In case of conflict or discrepancy the more stringent requirement shall apply.
- 2.3. Ensure that employees working on this specific project have met training requirements as legislated by the Nova Scotia Occupational Health & Safety Act and its regulations.
- 2.4. Where reference is made to jurisdictional authorities, it shall mean all authorities who have within their constituted powers the right to enforce the laws of the place of the building.

3. Equipment & Tools

- 3.1. Each user of equipment or tools shall be responsible to examine for sufficiency before use. Make equipment and tools safe if necessary.

4. WHMIS

- 4.1. Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets.
- 4.2. Have a copy of WHMIS data sheets available at the workplace on delivery of materials.

5. Hazardous Material

- 5.1. Should material resembling hazardous materials other than those identified with the Contract Documents, including but not limited to spray or trowel applied asbestos, be encountered in course of work; stop work immediately. Do not proceed until written instructions have been received from Consultant.
- 5.2. Where work entails use, storage, or disposal of toxic or hazardous materials, chemicals and or explosives, or otherwise creates a hazard to life, safety, health, or the environment; work shall be in accordance with the Jurisdictional Authority.

6. Site Cleaning

- 6.1. Except where special permission is obtained, maintain clear access on public sidewalks and roads.
- 6.2. Maintain walks and roads clear of construction materials and debris, including excavated material. Clean walks and roads as frequently as required to ensure that they are cleared of materials, debris and excavated material.

7. Fire Safety Requirements

- 7.1. Enforce fire protection methods, good housekeeping and adherence to local and Underwriter's fire regulations including, but not limited to, Fire Protection Act and the Provincial Building Code Act. Provide UL approved fire extinguishers, and other fire- fighting services and equipment, except where more explicit requirements are specified as the responsibility of individual Sections.
- 7.2. Smoking is not permitted on school property.
- 7.3. Advise Fire Chief in the area of Work of any work that would impede fire apparatus response, including but not limited to violation of minimum overhead clearance prescribed by the fire chief, erecting of barricades and digging of trenches and in areas where work is being done.
- 7.4. Ensure nothing subverts the integrity of fire protection provided for the building structure.

8. Reporting Fires

- 8.1. Know the location of the nearest fire alarm box and telephone, including the emergency phone number.
- 8.2. Report immediately all fire incidents to the fire department as follows:
 - 8.2.1. Activate nearest fire alarm box, or
 - 8.2.2. Telephone local fire department
 - 8.2.3. Where fire alarm box is exterior to building, the person activating the fire alarm box shall remain at the box to direct Fire Department to scene of the fire.
 - 8.2.4. When reporting a fire by telephone, give location of fire, name or number of building and be prepared to verify the location.

9. Safety Document Submission

- 9.1.** Ensure Safety Document Submission applies to Work of this specific project and site.
- 9.2.** Submit two (2) copies of Project Safety Document at the Pre-Construction Meeting. Do not commence Work nor deliver material on-site prior to submission.
- 9.3.** Include in Safety Document submission specific information detailing the methods and procedures to be implemented ensuring adherence to the acts, regulations, codes and policies specified in this section and to:
 - 9.3.1.** Ensure the Health & Safety of persons at or near the Work; including, but not limited to, the Public.
 - 9.3.2.** Ensure the measures and procedures of the regulatory agencies specified are carried out.
 - 9.3.3.** Ensure every employee, self-employed person and employer performing Work under this contract complies with the regulatory agencies specified.
 - 9.3.4.** Where changes to the methods and procedures in the execution of work change submitted safety methods and procedures, modify submitted Safety Documentation and submit modifications, in writing to the Consultant and Owner prior to implementation.

10. Safety Document Organization

- 10.1.** Organize information in the form of an instructional manual as follows:
 - 10.1.1.** Place in binders of commercial quality, accommodating 8½" x 11" paper size.
 - 10.1.2.** Cover: Identify binder with typed or printed title 'Project Safety Document' and list the title of project.
 - 10.1.3.** Provide tabbed fly leaf for each separate heading, with typed heading on tab.
 - 10.1.4.** Where drawings are within the safety document, provide with reinforced punched binder tab. Bind in with text; fold in larger drawings to size of text pages.
 - 10.1.5.** Arrange content under Safety Document headings specified herein.

11. Safety Document Headings

11.1. Employee Safety Training

11.1.1. Place, under this heading, a statement indicating employees working on this specific project have met specified training requirements, if required.

11.2. Company Safety Policy

11.2.1. Place, under this heading, information pertaining to the company's policy and commitment to Occupational Health & Safety, including the responsibilities of management, supervisors and workers.

11.3. Company Safety Rules in General Terms

11.3.1. Place, under this heading, information of a general, global nature, applying to every work environment where the company has staff and pertaining to rules directing compliance to policy. For example state company safety rules with respect to use of hard hats, safety glasses, safety foot ware, CSA approval on such items, and use of alcohol or non-prescription drugs.

11.4. Hazard Assessment

11.4.1. Place, under this heading, information identifying possible hazards specific to this project and identify safe methods and procedures for the execution of work to ensure safety in the workplace.

11.4.2. Arrange contents of this heading by technical section number of the project manual.

11.5. Emergency Action Plan

11.5.1. Place, under this heading, information detailing action to be taken in the event of various emergencies.

11.5.2. Arrange content under the following sub-headings:

11.5.2.1. First Aid

11.5.2.1.1. Include information concerning establishment of a First Aid Station, related supplies, staff awareness of location and staff training in First Aid Care of Casualties.

11.5.2.2. Contact of Emergency Support Groups:

11.5.2.2.1. Include relative information including phone location for emergency use, the emergency telephone numbers and their location for the various organizations which must be contacted in case of an emergency, and staff training in procedures.

Cessation of Work:

11.5.2.2.2. Include relative information how work cessation during emergencies is handled and communicated to persons present on site.

11.6. Joint Occupational Health & Safety Committee/Representative:

11.6.1. Place under this heading information detailing membership and terms of reference.

OCCUPATIONAL HEALTH & SAFETY SUMMARY FOLLOWS THIS PAGE

Occupational Health & Safety Summary (to be submitted with each monthly Progress estimate)

The following information summarizes Occupational Health & Safety activities on the project conducted by the Contractor during the month and includes activities of Subcontractors. Activities include all matters prescribed by the Occupational Health & Safety Act and Regulations and the submitted Occupational Health & Safety Document for the Project.

Indicate the applicable # number below:

List new Contractors on Site below:

____ new contractors on site,

____ orientations

____ toolbox talks

____ safety meetings

____ Joint Occupational Health
and Safety Committee meetings

____ hazard assessments

____ formal written inspections

____ warnings issued to employees or subcontractors

____ other, explain _____

The Contractor certifies that the above noted activity list is accurate and that during the month:
Check

All activities on the Project were found to be in compliance with the Occupational Health & Safety Act and Regulations

Some activities on the Project were not found to be in compliance with the Occupational Health & Safety Act and Regulations but were adequately corrected in an appropriate time frame. Explain

Prepared by

Certified by

(Contractor Project Manager)

(Contractor Senior Management)

END OF SECTION 01 35 29

SECTION 01 37 00 - SCHEDULE OF VALUES

1. Related Documents

- 1.1. General Conditions of Contract.

2. General

- 2.1. Submit to the Architect, and Owner, Schedule of Values, within twenty (20) days after signing Agreement.
- 2.2. Use Schedule of Values as basis for Contractor's Progress Claim.

3. Form Of Submittal

- 3.1. Form included at end of this Section.

4. Preparing Schedule Of Values

- 4.1. Itemize separate line item cost for work required.
- 4.2. Round off figures to nearest ten (10) dollars.
- 4.3. The sum of all values listed in the schedule shall equal the total contract sum.

5. Review And Submittal

- 5.1. After review by Architect and Owner, revise and resubmit Schedule as directed.
- 5.2. The form shall be completed and supported by such evidence as to its correctness as the Architect may reasonably direct.

SCHEDULE OF VALUES

Project Name **#4242 - Roof Replacement – Ellenvale Junior High School**

Architect

Contractor

Date

Halifax Regional Centre for Education – Schedule of Values		
Contract Item	Percentage	Dollar Value
Mobilization, bonding / insurance, safety, set up safety fencing and roof access	10	
Materials - approved materials delivered to site . Approved area by HRCE	25	
Removal of existing roof system and install to new vapour barrier	15	
Install Roof System	20	
Metal Flashings	20	
Close out documentation including copy of warranty	10	
Total	100 %	

END OF SECTION 01 37 00

SECTION 01 41 00 - REGULATORY AGENCIES

1. Jurisdictional Authorities

- 1.1. Where reference is made to jurisdictional authorities, it shall mean all authorities who have within their constituted powers the right to enforce the laws of the place of building.

2. Definitions

- 2.1. The "Constructor" named in the Construction Safety Act, Chapter 52, Revised Statutes of Nova Scotia, as amended by 1972, Chapter 25; and Construction Safety Regulations, pursuant to Chapter 52 R.S.N.S., including any amendments, shall mean the "Contractor" for the Work performed under this Specification.

3. Fire Prevention, Safety & Protection

- 3.1. General Construction Safety Measures:
- 3.1.1. Observe safety measures of the
 - 3.1.1.1. National Building Code 2010, Part 8.
 - 3.1.1.2. National Fire Code of Canada.
 - 3.1.1.3. Provincial Government, including but not limited to the Occupational Health & Safety Act Revised Statutes of Nova Scotia 1996, Chapter 320, and the Construction Safety & Industrial Safety Regulations made pursuant to the Occupational Health and Safety Act, 1996.
 - 3.1.1.4. Workers'/Workmen's Compensation Board.
 - 3.1.2. In case of conflict or discrepancy the more stringent requirement shall apply.
 - 3.1.3. Maintain clear emergency exit paths for personnel.
- 3.2. Except where special permission is obtained, maintain clear access on public sidewalks and roads.
- 3.3. Maintain walks and roads clear of construction materials and debris, including excavated materials. Clean walks and roads as frequently as required to ensure that they are cleared of materials, debris and excavated materials.
- 3.4. WHMIS:
- 3.4.1. Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage, and disposal of hazardous materials; and regarding labelling and provision of material safety data sheets acceptable to Labour Canada and Health & Welfare Canada.
 - 3.4.2. Have a copy of WHMIS data sheets available at the workplace on delivery of materials.

Blockage of Roadways

- 3.5. Advise Fire Chief of any work that would impede fire apparatus response. This includes violation of minimum overhead clearance, as prescribed by fire chief, erecting of barricades and the digging of trenches.

4. Smoking Precautions

- 4.1. Observe, at all times, smoking regulations.

5. Rubbish And Waste Materials

- 5.1. Rubbish and waste materials are to be kept to a minimum.
5.2. The burning of rubbish is prohibited.

6. Flammable And Combustible Liquids

- 6.1. The handling, storage and use of flammable and combustible liquids are to be governed by the current National Fire Code of Canada.
6.2. Flammable and combustible liquids such as gasoline, kerosene and naphtha will be kept for ready use in quantities not exceeding 45 litres provided they are stored in approved safety cans bearing the Underwriter's Laboratory of Canada or Factory Mutual seal of approval. Storage of quantities of flammable and combustible liquids exceeding 45 litres for work purposes, requires the permission of the Fire Chief.
6.3. Transfer of flammable and combustible liquids is prohibited within buildings or jetties.
6.4. Transfer of flammable and combustible liquids will not be carried out in the vicinity of open flames or any type of heat-producing devices.
6.5. Flammable liquids having a flash point below 38°C such as naphtha or gasoline will not be used as solvents or cleaning agents.
6.6. Flammable and combustible waste liquids, for disposal, will be stored in approved containers located in a safe ventilated area. Quantities are to be kept to a minimum and the Fire Department is to be notified when disposal is required.

7. Hazardous Substances

- 7.1. Work entailing the use of toxic or hazardous materials, chemicals and/or explosives, otherwise creates a hazard to life, safety or health, will be in accordance with the National Fire Code of Canada.
7.2. Where flammable liquids, such as lacquers or urethanes are to be used, proper ventilation will be assured and all sources of ignition are to be eliminated. The Fire Chief is to be informed prior to and at the cessation of such work.

8. Questions and/or Clarification

- 8.1.** Direct any questions or clarification on Fire Safety in addition to above requirements to Fire Chief.

9. Fire Inspection

- 9.1.** Site inspections by Fire Chief will be coordinated through HRCE Project Manager.
- 9.2.** Allow Fire Chief unrestricted access to the work site.
- 9.3.** Co-operate with the Fire Chief during routine fire safety inspection of the Work site.
- 9.4.** Immediately remedy all unsafe fire situations observed by the Fire Chief.

10. Reference Standards

- 10.1.** Where edition date is not specified, consider that references to manufacturer's and, published codes, standards and specifications are made to the latest edition, (revision) approved by the issuing organization, current at the date of this Specification.
- 10.2.** Reference standards and specifications are quoted in this Specification to establish minimum standards. Work which in quality exceeds these minimum standards shall be considered to conform.
- 10.3.** Should the Contract Documents conflict with specified reference standards or specifications the General Conditions of the Contract shall govern.
- 10.4.** Where reference is made to manufacturer's directions, instructions or specifications they shall include full information on storing, handling, preparing, mixing, installing, erecting, applying, or other matters concerning the materials pertinent to their use and their relationship to materials with which they are incorporated.
- 10.5.** Have a copy of each code, standard and specification, and manufacturer's directions, instructions and specifications, to which reference is made in this Specification, always available at construction site.
- 10.6.** Standards, specifications, associations, and regulatory bodies are generally referred to throughout the specifications by their abbreviated designations:

AA	The Aluminum Association
AISI	American Iron and Steel Institute
ANSI	American National Standards Institute
ARI	Air Conditioning & Refrigeration Institute
ASTM	American Society for Testing & Materials
CCA	Canadian Construction Association
CGSB	Canadian General Standards Board
CSA	Canadian Standards Association
NSDTIR	Department of Transportation & Infrastructure Renewal, Province of Nova Scotia
IAO	Insurers Advisory Organization
NBC	National Building Code
NFPA	National Fire Protection Association
CANS	Construction Association of Nova Scotia
ULC	Underwriters Laboratories of Canada
WHMIS	Workplace Hazardous Materials Information System

END OF SECTION 01 41 00

SECTION 01 45 00 - QUALITY CONTROL

1. Section Includes

- 1.1. Inspection and testing, administrative and enforcement requirements
- 1.2. Tests and mix designs.
- 1.3. Mock-ups.
- 1.4. Mill tests.
- 1.5. Equipment and system adjust and balance.
- 1.6. Verification by affidavits and certificates that specified products meet requirements of reference standards: In applicable Sections of the Specification.
- 1.7. Testing, balancing and adjusting of equipment: In applicable Mechanical and Electrical Sections of the Specification.
- 1.8. Cutting & Patching: Section 01 11 41.

2. Related Sections

- 2.1. Section 01 33 00 Submittal Procedures: Submission of samples to confirm product quality.
- 2.2. Section 01 61 00 Material & Equipment: Material and workmanship quality – reference standards.
- 2.3. Section 01 77 00 Contract Closeout.

3. REVIEW OF WORK

- 3.1. The Owner shall have access to the Work. If part of the Work is in preparation at locations other than the Place of the Work, access shall be given to such work whenever it is in progress.
- 3.2. Give timely notice to the Owner's Representative, requesting review of the Work as indicated in the Contract Documents.
- 3.3. If the Contractor covers or permits to be covered Work that has been designated for review by the Owner before such is made, uncover such Work, have the review satisfactorily completed and make good such Work at no extra cost to Owner.

4. Inspection, Special Tests, Approvals

- 4.1. Engage the services of appropriate inspection testing agencies ensuring the Work meets codes, acts and regulations, and laws in force at the place of Work. Include such costs in the Contract Price.

- 4.2. Give timely notice requesting inspection to those required to provide inspections, special tests, or approvals, where Work is designated, by the Owner's instructions or the law of the place of Work, for special tests.
- 4.3. If the Contractor covers or permits to be covered Work that has been designated for special tests, inspections or approvals before such is made, uncover such Work, have the inspections or tests satisfactorily completed and make good such Work at no extra cost to the Owner.
- 4.4. The Owner may order any part of the Work to be examined if the Work is suspected to be not in accordance with the Contract Documents. If, upon examination such Work is found not in accordance with the Contract Documents, correct such Work and pay the cost of examination and correction. If such Work is found in accordance with the Contractor Documents, the Owner shall pay the cost of examination and replacement.

5. Independent Inspection Agencies

- 5.1. Independent Inspection/Testing Agencies may be engaged by the Owner for the purpose of inspecting and/or testing portions of Work. Cost of such services will be borne by the Owner.
- 5.2. Provide access to the Work, and equipment required for executing inspection and testing by the appointed agencies.
- 5.3. Employment of inspection/testing agencies does not relax the Contractor's responsibility to perform Work, or carry out his own inspections and testing in accordance with the Contract Documents.
- 5.4. If defects are revealed during inspection and/or testing, the appointed agency will request additional inspection and/or testing to ascertain full degree of defect. Correct defect and irregularities as advised by Owner at no cost to the Owner. Pay costs for retesting and reinspection.

6. Access To Work

- 6.1. Allow inspection/testing agencies access to the Work, off site manufacturing and fabrication plants.
- 6.2. Co-operate to provide reasonable facilities for such access.

7. Procedures

- 7.1.** Notify the appropriate agency and Owner in advance of the requirement for tests, in order that attendance arrangements can be made.
- 7.2.** Submit samples and/or materials required for testing, at specifically requested in specifications. Submit with reasonable promptness and in an orderly sequence so as not to cause delay in the Work.
- 7.3.** Provide labour and facilities to obtain and handle samples and materials on site. Provide sufficient space to store and cure test samples.

8. Rejected Work

- 8.1.** Remove defective Work, whether the result of poor workmanship, use of defective products or damage and whether incorporated in the Work or not, which has been rejected, including (but not limited to) defective Work rejected by the Owner as failing to conform to the Contract Documents. Replace or re-execute in accordance with the Contract Documents.
- 8.2.** Make good other Contractor's work damaged by such removals or replacements promptly.
- 8.3.** If in the opinion of the Owner, it is not expedient to correct defective Work or Work not performed in accordance with the Contract Documents, the Owner may deduct from the Contract Price the difference in value between the Work performed and that called for by the Contract Documents, the amount of which shall be determined by the Owner.

9. Reports

- 9.1.** Submit four (4) copies of inspection and test reports to the Owner.
- 9.2.** Provide copies to Contractor's Consultant and Subcontractor of Work being inspected or tested.

10. Tests and Mix Designs

- 10.1.** Furnish test results and mix designs as may be requested.
- 10.2.** The cost of tests and mix designs beyond those called for in the Contract Documents or beyond those required by law of the Place of Work shall be appraised by the Owner and may be authorized as recoverable.

11. Mock-Up

- 11.1.** Prepare mock-up for Work for each finish in the Work and other work specifically requested in the specifications. Include for Work of all Sections required to provide mock-ups.
- 11.2.** Construct in all locations as specified in specific Section.
- 11.3.** Prepare mock-up for Owner's review with reasonable promptness and in an orderly sequence, so as not to cause any delay in the Work.
- 11.4.** Failure to prepare mock-up in ample time is not considered sufficient reason for an extension of Contract Time and no claim for extension by reason of such default will be allowed.
- 11.5.** If requested the Owner will assist in preparing a schedule fixing the dates for preparation.
- 11.6.** Mock-ups may remain as part of the Work, unless specified otherwise in the Contract Documents.

12. Mill Tests

- 12.1.** Submit mill test certificates as may be requested.

13. Equipment And Systems

- 13.1.** Submit adjustment and balancing reports for mechanical, electrical and building equipment systems.
- 13.2.** Refer to Contract Documents for definitive requirements.

END OF SECTION 01 45 00

SECTION 01 52 00 – CONSTRUCTION & TEMPORARY FACILITIES

1. General

- 1.1. Include in the Work construction and temporary facilities required as construction aids or by jurisdictional authorities or as otherwise specified. Install to meet needs of construction as Work progresses. Maintain construction and temporary facilities during use, relocate them as required by the Work, remove them at completion of need and make good adjacent Work and property affected by their installation.
- 1.2. Include in the Work construction and temporary facilities to provide for construction safety such as: fences, barricades, bracing, supports, storage, sanitation and first aid facilities, fire protection, stand pipes, electrical supply, construction equipment with its supports and guards, stairs, ramps, platforms, runways, ladders, scaffolds, guardrails, temporary flooring, rubbish chutes, and walkway, morality and guard lights, and as otherwise required of the Constructor by the Construction Safety Act, of the Province of Nova Scotia, as well as all other applicable regulations or jurisdictional authorities.
- 1.3. Construct temporary Work of new materials unless use of second-hand materials is approved.
- 1.4. Ensure that structural, mechanical, and electrical characteristics of temporary facilities are suitable and adequate for use intended. Be responsible that no harm is caused to persons and property by failure of temporary facilities because of placing, location, stability, protection, structural sufficiency, removal, or any other cause.
- 1.5. Locate temporary facilities as directed and coordinated with School Administration and HRCE.
- 1.6. Relocate construction and temporary facilities as required by the Progress of the Work, and remove at completion of Work.
- 1.7. Do not permit construction personnel to use new washroom and toilet facilities.
- 1.8. Interior work zones to be complete with temporary negative air ventilation units to be functioning at all times to control dust migration to occupied areas.
- 1.9. Refer also to HRCE Policies & Guidelines contained in Appendix A of Section 01 35 13.

2. Services

- 2.1. Temporary Electric Power:
 - 2.1.1. The Contractor will provide a source of electric power for all construction purposes.
 - 2.1.2. Coordinate with the Building Operator locations of power sources and arrange to connect under his direction.
 - 2.1.3. Install electric service distribution conductors and necessary components. Determine anticipated demand which will be placed on service during normal peak periods and obtain approval on this basis before making installation. Supply power of characteristics required by the Work. Install a power centre for miscellaneous tools

and equipment for each major building floor area with distribution box, a minimum of four 20 amp grounded outlets, and circuit breaker protection for each outlet. Make connections available to any part of the Work within distance of a 100'-0" extension.

2.2. Temporary Lighting:

2.2.1. Install lighting for

2.2.1.1. emergency evacuation, safety and security throughout the Project at intensity levels required by jurisdictional authorities.

2.2.1.2. performance of Work throughout Work areas as required, evenly distributed, and at intensities to ensure that proper installations and applications are achieved.

2.2.1.3. performance of finishing Work in areas as required, evenly distributed and of an intensity of at least 15 foot candles.

2.2.2. Permanent fluorescent lighting may be used during construction, provided that fixtures, lamps and lenses are completely cleaned. Incandescent sources may be used during construction to the extent of 20% of the total. Electrical Division Contractor to provide 20% spare lamps to the Owner for replacement purposes.

2.3. Temporary Sanitary Facilities:

2.3.1. Provide sanitary facilities for persons on the Work site. Facilities in areas of the building are only to be used under extraordinary circumstances and with prior approval.

2.4. Maintain fire protection as required by jurisdictional authorities. The Contractor is responsible for de-activating and re-activating Fire Alarm zones as required by the Work of the Contract and to maintain protection in the existing building.

3. Construction Aids

3.1. Hoists & Cranes:

3.1.1. Select, operate and maintain hoisting equipment and cranes as may be required. Operate such equipment only by qualified hoist or crane operators. Make hoist available for Work of each Section.

3.2. Building Enclosure:

3.2.1. Include in Work temporary enclosure for building as required to protect it, in its entirety or in its parts, against the elements, to maintain environmental conditions

required for Work. Design enclosures to withstand wind pressures required for the building by jurisdictional authorities. Erect enclosures to allow complete accessibility for installation of materials during the time enclosures remain in place.

3.3. Scaffolding:

- 3.3.1. Each user of scaffolding shall be responsible for its examination and testing for sufficiency before using it. He shall make it secure if necessary, or shall notify the Contractor in writing that he will not commence work until it is made secure; otherwise he will be held responsible for accidents due to its insufficiency.

4. Barriers

- 4.1. Install barricades for traffic control, and to prevent damaging traffic over exterior and interior finished areas, as well as safety barricades and otherwise, as may be required.
- 4.2. Construct hoardings and walkways as required by HRCE or jurisdictional authorities.

5. Protection

- 5.1. Protect roofs and podiums by substantial temporary construction to ensure that no damage occurs. Provide protection by materials of sufficient thickness to prevent all damage to structure and finish, and to waterproofing qualities of membranes, whenever each of these individual components are exposed. Damage shall include harm resulting from all construction work, such as falling objects, wheel and foot traffic, failure to remove debris, operation of machinery and equipment, and scaffolding and hoisting operations. Positively secure protection to prevent displacement from any cause.
- 5.2. Box with wood or otherwise protect from damage, by continuing construction, finished sills, jambs, corners, and the like.

END OF SECTION 01 52 00

SECTION 01 61 00 - MATERIAL & EQUIPMENT

1. General

- 1.1. Products refer to materials, manufactured components and assemblies, fixtures and equipment incorporated in the Work.
- 1.2. Use only products of Canadian manufacture unless such products are not manufactured in Canada, are specified otherwise, or are not competitive.
- 1.3. Products for use in the Project and on which the Tender was based shall be in production at that time, with a precise model and shop drawings available for viewing.
- 1.4. Where equivalent products are specified, or where alternatives are proposed under "substitution of products", these products claimed by the Contractor as equivalent shall be comparable in construction, type, function, quality, performance, and, where applicable, in appearance, as approved. Where specified equivalents are used in the tendered bulk sum price for the Work, they shall be subject to final approval.
- 1.5. Incorporate products in the Work in strict accordance with manufacturers' directions unless specified otherwise.
- 1.6. Products delivered to the Project site for incorporation in the Work shall be considered the property of the Owner. Maintain protection and security of products stored on the site after payment has been made for them.
- 1.7. Do not install permanently incorporated labels, trademarks and nameplates, in visible locations unless required for operating instructions or by jurisdictional authorities.

2. Specified Products

- 2.1. Products specified by manufacturer's name, brand name or catalogue reference shall be the basis of the bid and shall be supplied for the Work without exception in any detail, subject to allowable substitutions as specified.
- 2.2. Where several proprietary products are specified, any one of the several will be acceptable.
- 2.3. For products specified by reference standards, the onus shall be on the supplier to establish that such products meet reference standard requirements. The Architect may require affidavits from the supplier, as specified in Section 01 33 00, or inspection and testing at the expense of the supplier, or both, to prove compliance. Products exceeding minimum requirements established by reference standards will be accepted for the Work if such products are compatible with and harmless to Work with which they are incorporated.

3. Substitution Of Products During Progress Of Work

- 3.1.** Products substituted for those specified or approved, or both, shall be permitted only if the listed product cannot be delivered to maintain construction schedule and if the delay is caused by conditions beyond the Contractor's control.
- 3.2.** Obtain approval for substitutions. Application for approval of substitutions shall be made only by Contractor. Process proposals for substituted Work in accordance with procedures established for changes in the Work.
- 3.3.** Submit, with request for substitution, documentary evidence that substituted products are equal to, or superior to, approved products, and a comparison of price and delivery factors for both specified or approved products, and proposed substitute.
- 3.4.** Ensure that substituted products can be both physically and dimensionally incorporated in the Work with no loss of intended function, performance, space or construction time, and that spare parts and service are readily available. The Contractor shall be responsible for additional installation costs, including architectural and engineering fees, required by incorporation of substituted products, and for adaptations made otherwise necessary to ensure that above requirements are satisfied.

4. Product Handling

- 4.1.** Manufacture, pack, ship, deliver and store products so that no damage occurs to structural qualities and finish appearance, nor in any other way detrimental to their function or appearance, or both.
- 4.2.** Ensure that products, while transported, stored or installed, are not exposed to an environment which would increase their moisture content beyond the maximum specified.
- 4.3.** Schedule early delivery of products to enable Work to be executed without delay. Before delivery, arrange for receiving at site.
- 4.4.** Deliver package products, and store until use, in original unopened wrapping or containers, with manufacturer's seals and labels intact.
- 4.5.** Label packaged products to describe contents, quantity and other information as specified.
- 4.6.** Product handling requirements may be repeated and additional requirements specified, in other Sections.

5. Storage & Protection

- 5.1. Coordinate material delivery to ensure that areas within or on building are available to receive them.
- 5.2. Store manufactured products in accordance with manufacturer's instructions, when such instructions are attached to products or submitted by him.
- 5.3. Store finished products and woodwork under cover at all times.
- 5.4. Store and handle flammable liquids and other hazardous materials in approved safety containers and as otherwise prescribed by safety authorities. Store no flammable liquids or other hazardous materials in bulk within the Project.
- 5.5. Storage and special protection requirements may be repeated, and additional requirements specified, in other Sections.

6. Defective Products & Work

- 6.1. Products and Work found defective; not in accordance with the Specifications; or defaced or injured through negligence of the Contractor, his employees or subcontractors, or by fire, weather or any other cause will be rejected for incorporation in the Work.
- 6.2. Remove rejected products and Work from the premises immediately.
- 6.3. Replace rejected products and Work with no delay after rejection. Provide replacement products and execute replacement Work precisely as required by the Specification for the defective Work replaced. Previous inspection and payment shall not relieve the Contractor from the obligation of providing sound and satisfactory Work in compliance with this Project Manual.

7. Workers, Suppliers & Subcontractors

- 7.1. Assign Work only to workers, suppliers, and Subcontractors who have complete knowledge, not only of the conditions of this Project Manual, but of jurisdictional requirements, and reference standards and specifications.
- 7.2. Give preference to use of local workers, suppliers, and Subcontractors wherever possible.

8. Workmanship

- 8.1. Unless otherwise specified in a more detailed manner, workmanship shall be of the highest quality recognized by trade executing the Work in accordance with standard practices, by the best methods recommended by the manufacturer of the Product, and as approved by the Architect.

END OF SECTION 01 61 00

SECTION 01 77 00 – CONTRACT CLOSEOUT

1. Section Includes

- 1.1. Final cleaning.
- 1.2. Spare parts and maintenance materials.
- 1.3. Take over procedures.

2. Related Sections

- 2.1. Individual Specifications Sections: Specific requirements for operation and maintenance data.

3. Final Cleaning

- 3.1. Refer to the General Conditions of Contract.
- 3.2. Before final inspection, replace glass and mirrors broken, damaged and etched during construction, or which are otherwise defective.
- 3.3. In addition to requirements for cleaning-up specified in General Conditions of the Contract, include in Work final cleaning by skilled cleaning specialists on completion of construction.
- 3.4. Remove temporary protections and make good defects before commencement of final cleaning.
- 3.5. Remove waste products and debris other than that caused by the Owner, other contractors or their employees, and leave the Work clean and suitable for occupancy by Owner.
- 3.6. Remove surplus products, tools, construction machinery and equipment. Remove waste products and debris other than that caused by the Owner or other Contractors.
- 3.7. Clean and polish glass, mirrors, hardware, wall tile, stainless steel, chrome, porcelain enamel, baked enamel, plastic laminate, mechanical and electrical fixtures. Replace broken, scratched or disfigured glass.
- 3.8. Remove stains, spots, marks and dirt from decorative work, electrical and mechanical fixtures, furniture fitments, walls, and floors and ceilings.
- 3.9. Vacuum clean and dust building interiors, behind grilles, louvres and screens as affected by Work.
- 3.10. Wax, seal, shampoo, buff or prepare floor finishes, as recommended by the manufacturer. Use products compatible with products used by building maintenance staff.
- 3.11. Broom clean and wash all horizontal and vertical surfaces as affected by Work.
- 3.12. Clean up and make good exterior grades, lawns, planting and surfaces after removal of temporary access and facilities.
- 3.13. Removing of visible labels left on materials, components, and equipment.
- 3.14. Maintain cleaning until Owner has taken possession of building or portions thereof.

4. Spare Parts And Maintenance Materials

- 4.1. Spare parts and maintenance materials provided shall be new, not damaged or defective, and of the same quality and manufacture as Products provided in the Work. If requested, furnish evidence as to type, source and quality of Products provided.
- 4.2. Defective Products will be rejected, regardless of previous inspections. Replace products at own expense.
- 4.3. Store spare parts and maintenance materials in a manner to prevent damage, or deterioration.
- 4.4. Provide spare parts, special tools, maintenance and extra materials in quantities specified in individual specification Sections.
- 4.5. Provide items of same manufacture and quality as items in the Work.

5. Demonstration Of Systems & Equipment

- 5.1. Give a complete demonstration of all systems and equipment in the presence of the Consultant at the following times:
- 5.2. When each is 100% completed at the request of the Contractor.
- 5.3. At time of inspection to validate final completion.
- 5.4. At final completion for the benefit of the maintenance staff for the Project.
- 5.5. Responsible personnel representing the Subcontractor responsible for the Work being demonstrated shall be present at each demonstration.

6. Submittals

- 6.1. Submit with application for substantial performance certificate.
 - 6.1.1. Certificate of Substantial Performance inspection report from electrical utility or inspection.
 - 6.1.2. Certificate of verification of fire alarm system.
 - 6.1.3. Certificate from the Fire Marshal's Office and I.A.O. of final inspection of sprinkler system.
 - 6.1.4. Air balance reports.
 - 6.1.5. Other reports required or specified.
 - 6.1.6. Maintenance Manuals and Operating Instructions.
- 6.2. Submit with application for release of final payment:
 - 6.2.1. Final project record drawings.
 - 6.2.2. Extra stock.
 - 6.2.3. Performance bonds which shall remain in effect for one (1) year after take-over date.
 - 6.2.4. Completed Liability Insurance Policy extended for one (1) year from take-over date.
 - 6.2.5. Written guarantee covering all workmanship and materials used in the Work.
 - 6.2.6. Maintenance bonds as specified.

- 6.2.7. Extended Warranties as specified
- 6.2.8. Certificate from Workers' Compensation Board.
- 6.2.9. Certificate from Health Services Tax Division.

7. Final Inspection Procedures

- 7.1. Schedule, make arrangements for and administer final inspections and close out in the following stages.
- 7.2. Contractor's Inspection:
 - 7.2.1. Determination that Project meets requirements for substantial performance and inspection is the responsibility of the Contractor.
 - 7.2.2. The Contractor and all Subcontractors shall conduct an inspection of the work, identify deficiencies and defects; repair as required. Notify the Consultant in writing of satisfactory completion of the contractor's Inspection and that corrections have been made. Request a Consultant's Substantial Performance Inspection.
- 7.3. Consultant's Inspection: Consultants and the Contractor will perform an inspection of the Work to identify obvious defects or deficiencies. The contractor shall correct Work accordingly.
- 7.4. Substantial Performance Inspection:
 - 7.4.1. When the items noted above are complete, request a substantial performance inspection of the Work by the Consultant, and the Contractor. If Work is deemed incomplete by the Consultant, complete the outstanding items and request a re-inspection.
 - 7.4.2. Substantial performance inspections shall be scheduled to begin within eight working days of the Contractor's request.
 - 7.4.3. Present at the substantial performance inspection will be:
 - 7.4.3.1. The Consultant and his Sub-consultants that he requires and notifies.
 - 7.4.3.2. The Owner's representatives, upon notification by the Consultant.
 - 7.4.3.3. The Contractor and such Subcontractors that he considers are required.
 - 7.4.3.4. The Contractor will compile a substantial performance deficiency list at this inspection and issue it to the Consultant and Owner.
 - 7.4.3.5. The Contractor shall correct substantial performance deficiencies before a date agreed upon by the Contractor and Consultant.
 - 7.4.3.6. Upon the Consultant's approval of substantial performance, the Contractor shall submit an application for a substantial performance certificate.
 - 7.4.3.7. When the Contractor has satisfied himself that these corrections have been completed in a satisfactory manner by his inspection he shall schedule a final Contractor's inspection by the Consultant, and the Owner's representatives if required, within five working days of the Contractor's request.

7.4.3.8. Upon the Consultant's approval of completion, the Contractor shall submit an application for a completion certificate.

8. Substantial Performance

- 8.1.** The Consultant will issue a Certificate of Substantial Performance when satisfied outstanding deficiencies noted during inspections prior to the Substantial Performance inspection have been corrected, the Work is substantially complete and is so certified by the Owner.
- 8.2.** A list of remaining deficiencies to be rectified before final acceptance will be attached to the Certificate of Substantial Performance.
- 8.3.** Make submissions specified in Subparagraph 1.06 of this Section.

9. Certificate For Release Of Amount Due At Substantial performance

- 9.1.** The Consultant will issue to the Owner a certificate for release of money in an amount equal to the amount due the Contractor under the Contract Documents provided the Consultant is satisfied the Work has been substantially completed.
- 9.2.** The certificate shall indicate the date of substantial performance.
- 9.3.** Payment shall be due in accordance with GC 5.4 and the Contract Documents.

10. Completion Certificate

- 10.1.** The Consultant will issue a Certificate of Completion (DSS Document DC670-92) when he is satisfied that outstanding deficiencies noted during inspections have been corrected and the Work is completed and is so certified by the Owner.
- 10.2.** The date of the completion certificate will commence the required sixty (60) day period before release of final payment.

11. Certificate For Release Of Final Payment

- 11.1.** Subject to the provisions of the Contract Documents, the Consultant will issue to the Owner a certificate for release of final payment sixty (60) days after date of completion certificate providing he is satisfied the Work has been completed.
- 11.2.** The certificate will be in an amount equal to the remaining money due the Contractor under the Contract, and shall indicate the date of final completion.
- 11.3.** Payment shall be due upon date of final completion.

12. Warranties

12.1. Establishment of Warranties:

12.1.1. Warranties shall commence on the Ready-for-Takeover date.

12.2. Warranty Period:

12.2.1. The Owner will advise the Consultant of defects observed during warranty periods.

12.2.2. The Consultant will notify the Contractor of defects observed during warranty period and request him to remedy the defects in accordance with the Contractor documents.

12.2.3. Thirty (30) days before expiration of warranties the Owner's representatives, the Consultant and the Contractor will inspect the Work as arranged by the Contractor noting defects of products and workmanship.

12.2.4. The Contractor shall immediately remedy such noted defects.

END OF SECTION 01 77 00

CONTRACTOR'S CHECKLIST

Pre-Closing Reminder to Proponents:

- This Request for Proposals (RFP) is a **two-file process**.
Please ensure that the submission instructions are followed carefully as noted in Section 00 21 13 – Information to Proponents to ensure your submission is compliant.
- Required Bid Security – (10% of the Contract price before HST)
- Please include a copy of your bid security in with your Price Submission file.
- Please submit your proposal to the submission email address: hrcetenders@hrce.ca
- The HRCE will use the CCDC-2, 2020 for this work. A copy of the Standard Construction Contract CCDC 2 – 2020 is available upon request and will form part of the contract documents.
- The HRCE Supplementary General Conditions for the CCDC-2, 2020 applicable for this work is available for review under Section 0073 00 of the RFP document.

Post Award Document Requirements:

- Certificate of Recognition from a safety audit organization, jointly signed with the WCB.
- Workers' Compensation Board Letter of Good Standing.
- Certificate of Good Standing from the Canadian Roofing Contractors Association and Roofing Contractors Association of Nova Scotia, New Brunswick Roofing Contractors Association, or equivalent.
- Contract Security documentation – if required
- Insurance Certificate – As identified in the RFP.
- Schedule of Values
- Site Specific Safety Plan
- Hazard Assessment
- Listing of subcontractors
- Warranty information

The award letter will list the specific documents required and provide a submission timeframe.

A purchase order will be issued only after receipt of all required items.

Work is not authorized until purchase order is issued.

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #1 – The most recent HRCE project, if applicable.

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name and Position Title	
Reference Contact Info - Email Address - Phone Number	

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #2 – The next most recent HRCE project, if applicable

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name and Position Title	
Reference Contact Info - Email Address - Phone Number	

PROJECT EXPERIENCE AND REFERENCES FORM

Refer Technical Submission Requirements in Section 11.3.1 Section I.

Project #3 – Any recent project

Company Name	
Brief Project Description	
Project Manager Name	
Project Dollar Value \$	
Reference Name and Position Title	
Reference Contact Info - Email Address - Phone Number	

PROJECT SAFETY PLAN OUTLINE

During the planning of each project, environmental and occupational health and safety issues will be assessed like any other key project component.

Prior to beginning a new project, tendering contractors shall examine the work area to identify potentially hazardous site specific situations.

Once identified, these hazards should be prioritized on this Hazard Assessments/Project Safety Plan Outline and corrective *actions* noted to eliminate or control each hazard. The dates of when and names of the persons who are responsible for completing the *action* should also be assigned.

Copies of the completed Safety Plan Outline shall be submitted post award, sent to the HRCE Operations Services Regional Manager, made available on the job site and communicated to the workers.

Project Name: _____

Project Location: _____

Project Start date: _____

Project End date: _____

Company Name: _____

Completed by: _____

(Contractor's project manager)

Date: _____

Copy to: _____

PLANNING:

Does the Contractor’s Occupational Health and Safety Program deal with the work activities associated with this project? Yes No

Describe tasks to be undertaken: _____

HAZARDS ASSESSMENT:

Identify the hazards that could present themselves on this project (e.g. live electrical wires, over water, confined space, etc) and describe what steps will be taken to prevent an incident (e.g. cover up, de-energize, safe work practices, netting, etc). Prioritize from #1 as needing immediate action.

#	Hazard	Required Action	Completed by	Date
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

ENVIRONMENTAL ASSESSMENT:

Identify the environmental issues that could present themselves on this project (e.g. oil spills, asbestos, etc.) and describe the action that will be taken to eliminate or reduce the risk of occurrence (e.g. mop kits, air sampling, etc.)

#	Hazard	Required Action	Completed by	Date
1				
2				
3				
4				
5				

EMERGENCY RESPONSE:

In the event of an incident, pre-plan the response and write up the procedures. Minimally, the following list should be completed and posted on site:

Contact	Phone #	Contact	Phone#
Fire	911	Poison Control	902-428-8161
Ambulance	911	Dangerous Goods	1-800-565-1633
Doctor	911	Waste Disposal	
Police	911	Insurance	
HRCE Office	902-493-5110	Min./Dept of Labour	1-800-952-2687
Min./Dept of Transport		Min./Dept of Enviro	1-800-565-1633

- Identify and arrange source of first aid, ambulance and rescue.
- Accidents will be reported to: _____
- Accidents will be investigated by: _____
- Back-up call to: _____
- HRCE # emergency/after hours: day 902-493-5110 after 4:00 pm 902-442-2476

SAFETY MEETINGS:

On this project, given the nature of the work and the anticipated size of the work force, the following frequency will apply:

Site meetings _____

Site Audits _____

Follow up with HRCE Manager: _____

SITE IMPLEMENTATION:

- Health and Safety Rep & Safety Committee:
Establish liaison between HRCE, contractor, site administration First Aid, PPE, other safety items as required.

- Documentation:
Applicable MSDS Safety program
Applicable work procedures Permits
First Aid Certification

TRAINING:

The following training/testing will be mandatory on site:

1) _____

2) _____

3) _____



Halifax

Regional Centre for Education

TENDER

#

**ELLENVALE JUNIOR HIGH
SCHOOL**

ROOFING REPLACEMENT

SPECIFICATION

ISSUED FOR TENDER

July 31, 2023

Comm. #CA0006948.9893

prepared by
Architecture49

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PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described but not restricted to the following:
 - .1 Provide rough carpentry work as indicated in Schedule.

1.2 REFERENCES

- .1 The standards listed form part of this Specification to the extent of reference. The publications are in the text by the basic designation only.
- .2 American Society for Testing and Materials International (ASTM):
 - .1 ASTM E96/E96M-21, Standard Test Methods for Water Vapor Transmission of Materials
 - .2 ASTM E136-19a, Standard Test Method for Behavior of Materials in a Vertical Tube Furnace at 750 degrees celcius
 - .3 ASTM F1667/F1667M-21a, Standard Specification for Driven Fasteners: Nails, Spikes, and Staples.
- .3 Canadian Standards Association (CSA):
 - .1 CSA B111-1974 (R2003), Wire Nails, Spikes and Staples.
 - .2 CSA O141-05 (R2019), Softwood Lumber
 - .3 CSA O151-17(R2022), Canadian Softwood Plywood.
- .4 Underwriters Laboratories of Canada (ULC):
 - .1 CAN/ULC S114-18, Standard Method of Test for Determination of Non-Combustibility in Building Materials
- .5 National Building Code of Canada (NBC) 2015.
- .6 National Lumber Grades Authority (NLGA), Standard Grading Rules for Canadian Lumber, latest edition.

1.3 ENVIRONMENTAL REQUIREMENTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of materials.

1.4 WASTE MANAGEMENT

- .1 Separate and recycle waste materials in accordance with Section 01 00 00 General Project Requirements.
- .2 Separate wood waste and place in designated areas in the following categories for recycling: Solid wood/ softwood/ hardwood, composite wood, treated, painted, or contaminated wood in containers supplied by the Contractor.

- .3 Separate corrugated cardboard and recycle.

1.5 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .2 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .3 Label packages to include material name, production date and/or product code.

1.6 QUALITY ASSURANCE/QUALITY CONTROL

- .1 Lumber identification: by grade stamp of an agency certified by Canadian Lumber Standards Accreditation Board.
- .2 Plywood identification: by grade mark in accordance with applicable CSA standards.

PART 2 - PRODUCTS

2.1 LUMBER MATERIAL

- .1 Softwood Lumber: unless specified otherwise:
 - .1 Softwood, SPF Species, NLGA Grade 2 (or better).
 - .2 G4S, (good four sides)
 - .3 Moisture content 19% or less in accordance with:
 - .1 CSAO141
 - .2 NLGA Standard Grading Rules for Canadian Lumber
- .2 Furring, blocking, nailing strips: cants, curbs, backing and sleepers:
 - .1 Softwood, SPF series, NLGA Standard or better grade.
 - .2 Moisture content: 19% or less, in accordance with:
 - .1 CSA O141
 - .2 NLGA Standard Grading Rules for Canadian Lumber.

2.2 SOFT WOOD PANEL MATERIALS

- .1 Canadian Softwood Plywood: to CSA O151, exterior grade construction plywood 2 GS.

2.3 FASTENERS

- .1 Nails, spikes and staples: to CSA B111 and ASTM F1667.
- .2 Bolts: 1/2" min. diameter unless indicated otherwise, complete with nuts and washers.

- .3 Proprietary fasteners: toggle bolts, expansion shields and lag bolts, screws and lead or inorganic fiber plugs, explosive actuated fastening devices, recommended for purpose by manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Verify that field conditions are acceptable and are ready to receive Work.
- .2 Site verify dimensions, tolerances and method of attachment with other Work.

3.2 INSTALLATION

- .1 Comply with requirements of NBC latest edition.
- .2 Install rough bucks, nailers and linings to rough openings as required to provide backing for frames and other work.
- .3 Install sleepers as indicated.
- .4 Provide space framing and furring as indicated.
- .5 Align and plumb faces of furring and blocking to tolerance of 1:600.
- .6 Install backing, nailers, curbs and other wood supports as required, secure using approved fasteners at all locations.
- .7 Frame, anchor, fasten, tie and brace members to provide necessary strength and rigidity.
- .8 Countersink bolts where necessary to provide clearance for other work.
- .9 Prior to mechanically fastening all curbs etc, contractor to review deck area adjacent to ensure no piping and/or conduit are located that may be punctured/damaged or service disrupted

3.3 SCHEDULE

- .1 Roof Curbs for Mechanical Curbs:
 - .1 Solid Wood Construction & Anchorage:
 - .2 2" x 6" construction.
 - .3 Refer to details for height of curb and extent.
 - .4 Ensure curb and parapet is leveled around perimeter. Refer to details.

3.4 CLEANING

- .1 Perform cleaning as soon as possible after installation to remove construction and accumulated environmental dirt.
- .2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described herein, but not restricted to the following:
 - .1 Remove existing roofing down to the existing vapour barrier prepare the roof to accept the new adhered roofing system.
 - .2 Provide new two-ply modified bituminous membrane fully adhered (except for the cap sheet) roofing system complete with tapered insulation as noted on drawings.
 - .3 Provide built-up parapets, blocking curb extensions as required.
 - .4 Provide tie-ins to all mechanical curbs for roof top equipment.

1.2 APPROVED ROOF ASSEMBLY

- .1 Approved Roof Assembly consists of the following:
 - .1 Existing Flat Wood Deck
 - .2 Existing BUR Vapour Barrier
 - .3 SBS Vapour Barrier – self adhesive parapets and upstands
 - .4 Polyiso Insulation – 4” Base layer plus 1.5 percent tapered from drains, except as noted otherwise on the roof plan.
 - .5 Overlayment Board with Integral Base Sheet – adhered, with additional fastening as noted below.
 - .6 Cap Sheet – torch applied
- .2 Glue pattern: Low-rise foam adhesive beads are to be 12” O.C. for insulation boards and overlayment boards.
- .3 Mechanical fasteners (in addition to glues): One row of screws and plates is to be provided at 12” O.C at the edge of parapets and curbs as detailed.

1.3 REFERENCES

- .1 American Society for Testing and Materials International (ASTM):
 - .1 ASTM C208-12(2017), Specification for Cellulosic Fiber Insulating Board.
 - .2 ASTM D6164/D6164M-16, Styrene Butadiene Styrene (SBS) Modified Bituminous Sheet Materials Using Polyester Reinforcements.
 - .2 Canadian Roofing Contractors’ Association (CRCA) – Roofing Specifications Manual.
 - .3 Canadian Standards Association (CSA):
 - .1 CSA A123.21-20, Standard test method for the dynamic wind uplift resistance of membrane-roofing systems.
 - .4 Nova Scotia Construction Safety Association (NSCSA), Occupational Health and Safety Act (OHSA)
-

- .5 Underwriters Laboratories of Canada (ULC):
 - .1 CAN/ULC S704, Standard for Thermal Insulation, Polyurethane and Polyisocyanurate Boards, Faced
- .6 National Building Code of Canada (NBC)

1.4 SUBMITTALS

- .1 Provide shop drawings including manufacturer's technical data sheets for fully adhered system and installation methods for each component. Include a summary of the roofing system from top to bottom. (all components adhered except torched on cap sheet).
 - .1 Ensure manufacturer products especially adhesives specified can adhere to CSA A123.21 wind uplift recommendations.
 - .2 Provide layout for tapered areas of rigid insulation. Ensure tapered insulation indicate a positive slope to drain.

1.5 ENVIRONMENTAL REQUIREMENTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of materials.
- .2 Refer to the Manufacturer's recommendations regarding installation of roofing system at ambient temperatures. Roofing system should be applied when temperatures are acceptable to the manufacturer's requirements.
- .3 Refer to the Manufacturer's recommendations of temperatures required for conditioning the materials prior to application and install and curing after.
- .4 Install roofing on dry deck; must be clean, rust free, free of snow and ice, use only dry materials and apply only during weather that will not introduce moisture into roofing system. Scrape clean any Kraft paper and loose bitumen from the existing metal deck. Obtain approval from the manufacturer that the deck is cleaned adequate for adhesive installations.
- .5 Only 'Dry' materials are to be installed. Materials that are installed wet, or materials that become wet during inclement weather to be removed and replaced.

1.6 SAFETY REQUIREMENTS

- .1 Contractor to abide by NSCSA Occupational Health and Safety Act.
 - .2 Roof installers to have taken the NSCSA Fall Protection course and abide by the NSCSA Fall Protection Course Guidelines.
 - .3 Verify that construction guards / barriers are erected at the roof edge at openings and changes in roof elevation.
-

1.7 WASTE MANAGEMENT

- .1 Contractor to remove debris immediately from site to a designated landfill approved by Provincial Regulations to accept existing roofing materials debris.
- .2 Separate and recycle waste materials in accordance with all municipal guidelines.

1.8 PERFORMANCE CRITERIA

- .1 Compatibility between components of roofing system is essential. Provide written declaration to Consultant stating that materials and components, as assembled in system, meet this requirement.
- .2 Do roofing work in accordance with applicable, standard in Canadian Roofing Contractors Association (CRCA) Roofing Specifications Manual and to prescribed wind uplift requirements.

1.9 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .2 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .3 Label packages to include material name, production date and/or product code.
- .4 Store rolls of membrane in upright position. Store membrane rolls with salvage edge up.
- .5 Place plywood runways over work to enable movement of material and other traffic.
- .6 Store roofing material to meet manufacturer's recommendations.

1.10 QUALITY CONTROL

- .1 Convene pre-installation meeting one week prior to beginning work of this Section.
 - .1 Verify project requirements.
 - .2 Review installation and substrate conditions.
 - .3 Co-ordinate with other building subtrades.
 - .4 Review manufacturer's installation instructions and warranty requirements.
 - .5 Record meeting proceedings including corrective measures and other actions required to ensure successful completion of work and distribute to each attendee within one week of meeting.
 - .2 Manufacturer's Representative to visit site three (3) times unannounced during
-

construction and once at completion and provide inspection reports to the Owner and Consultant.

1.11 QUALITY ASSURANCE

- .1 Roofing applicator must be a good standing member of the CRCA and approved by the Roof Manufacturing Company selected on this Project, and have completed projects of this magnitude in the last five (5) years.
- .2 Roofing manufacturer must have completed projects of this size, to the CSA A123.21 standards and using fully adhesive methods as noted, within the last five (5) years.

1.12 FIRE WATCH

- .1 Hot work shall be kept 15m from flammable materials or openings in curbs, wall and roof junctions that could expose flames to combustible materials.
- .2 Provide a self-adhered fire seal membrane over all combustible materials and at all cracks and openings between assemblies prior to hot works.
- .3 A continuous fire watch shall be provided during the hot work and for a period of 60 minutes after its completion. A final inspection of the hot work area shall be completed 4 hours after completion of hot works.
- .4 Fire Extinguishers: maintain one cartridge operated type with hose and shut-off nozzle, ULC labelled for A, B and C class protection, within 3 meters of torch applicator.
- .5 Make sure all workers know the escape route.
- .6 Store combustible materials away from heat and open flames.

1.14 WARRANTIES

- .1 Roofing Contractor to supply the Owner with a CRCA warranty certifying work completed as installed to be free of roof defect for a period of two (2) years from date of substantial performance.
 - .2 Provide manufacturer's membrane warranty, ensuring that all components and adhesives within the system are fully compatible, and the roofing system will remain watertight for a period of a full ten (10) years from the date of substantial completion. This warranty is to include both labour and materials necessary to affect water tightness.
-

PART 2 - PRODUCTS

2.1 VAPOUR BARRIER / FIRE SEAL MEMBRANE (PARAPETS AND UPSTANDS)

- .1 Modified Bitumen base flashing membrane, for use at parapets and upstands against plywood backing:
 - .1 Non-woven reinforcing matt, polyester coated and permeated with SBS bitumen, self-adhering one side.
 - .2 Thickness: 2.5mm (98mils) minimum
 - .3 The back surface is self-adhered, silicone treated film.
 - .4 Manufactured to ASTM D6164.
 - .5 Primer as per manufacturer's recommendations.

2.2 POLYISOCYANURATE RIGID INSULATION

- .1 Polyisocyanurate roof insulation Type II, manufactured to CAN/ULC S704.
 - .1 Size Board: 1220 mm x 1220 mm or 1220 mm x 2440 mm
 - .2 Compressive strength: 170 kPa minimum
 - .3 Water absorption: 3.5% max (by volume)
 - .4 Tapered crickets: where noted on the drawings.
 - .5 Insulation applied in two layers with staggered joints. Bottom layer 4" thickness. Upper layer 1.5% tapered insulation, starting at 0" at roof drains.

2.5 ROOFING ADHESIVES

- .1 Insulation and Overlayment Board Adhesive:
 - .1 Must be compatible with roofing system components, and meet roofing warranty requirements.
 - .2 Meets testing requirements of CSA A123.21-14.
 - .3 Low rise, low odor, foam adhesive.
 - .4 Approved manufacturers: Soprema, IKO, or approved alternate.

2.6 OVERLAYMENT BOARD WITH INTEGRAL BASE SHEET

- .1 180 g/m² non-woven polyester reinforced SBS membrane with thermofusible surface laminated on a 1/2" High Density Polyisocyanurate Insulation panel.
 - .1 Meets CAN/ULC-S706 and ASTM C208
 - .2 Cold adhered installation, to meet CSA A123.21 requirements.
 - .3 Membrane edges: self-adhesive and torched edges.

2.7 BASE FLASHING

- .1 Base Sheet Flashing 180 g/m:
 - .1 Non-woven reinforcing matt, polyester coated and permeated with Modiflex SBS bitumen, thermo fusible plastic film over both sides.
-

- .2 Thickness: 2.5 mm (98mils)
- .3 Manufactured to ASTM D6164.
- .4 Primer as per manufacturer's recommendations.
- .5 Acceptable Manufacturers: IKO, Soprema

2.8 CAP SHEET AND CAP FLASHING

- .1 Cap Sheet and Cap Flashing 250g/m:
 - .1 Non-woven reinforced polyester reinforcing mat, coated and permeated with SBS modified bitumen. The underside to be protected by thermofusible plastic film. Membrane to be applied by torching only.
 - .2 Thickness: 5.0mm
 - .3 Coloured ceramic mineral granules embedded into top surface to provide protection against ultraviolet radiation; colour as selected by Consultant from full colour range.
 - .4 Manufactured to ASTM D6164 or ASTM D6162.
 - .5 Acceptable Manufacturers: IKO, Soprema

2.10 ACCESSORIES

- .1 Stack Jack Flashings:
 - .1 Spun aluminum flashing sleeve with integral flange and matching removable cap.
 - .2 Urethane insulation pre-moulded to inner side of sleeve.
 - .3 Standard of Acceptance: based on Thaler SJ-26 or SJ-27, or approved alternate.

PART 3 - EXECUTION

3.1 REMOVAL OF EXISTING ROOFING SYSTEM

- .1 Contractor to remove existing roofing system down to existing asphalt vapour barrier, on wood deck. Clean debris from vapour barrier to provide solid surface for adhesion of new roofing. Repair any cracks in existing vapour barrier with adhered vapour barrier or heat resealing.
 - .2 Only remove sufficient roofing to the deck that can be covered in a day, or the Contractor to temporarily protect. All temporary tie-ins are to be fully watertight.
 - .3 Remove and dispose of roofing materials immediately; no stockpiling of the removed roofing materials.
 - .4 Coordinate with mechanical and electrical contractor for timing of removal of existing roof top equipment and inclusions of new/reinstalled systems.
 - .5 Report any deteriorated wood deck immediately to HRCE Project Manager.
 - .6 Prior to installation of roof system verify:
 - .1 Decks are firm, straight, smooth, dry, free of snow, ice or frost, and swept clean
-

- of dust, debris and ready for primer.
- .2 Parapets, curb upstands have been installed for mechanical services requiring curbs, supports etc.
- .3 Roof drains have been installed at proper elevations relative to finished roof surface.

3.2 ROOFING INSTALLATION

- .1 Vapour Barrier / Fire Seal Membrane Installation (Parapets and Upstands):
 - .1 Prime all surfaces to manufacturers recommendations
 - .2 Self adhere the base sheet flashing after primer application is fully dried.
 - .3 Application to provide a smooth surface, free of air pockets, wrinkles, fishmouths or tears.
 - .4 Ensure vapour barrier flashings are completed, and openings, crevices and all wood surfaces are covered for a fully watertight system.
 - .2 Insulation Panel Installation:
 - .1 Ensure the insulation panels are tightly fitted together.
 - .2 Discard broken insulation boards.
 - .3 Voids are to be completely filled with insulation.
 - .4 Install insulation to fit tightly next to curbs, parapets and roof protrusions.
 - .5 Fully adhere insulation panels to the vapour barrier to requirements of Part 1.
 - .5 Overlayment Board and Integral Base Sheet Installation:
 - .1 Install boards with flush butt joint and wrap overlap membrane onto adjacent board.
 - .2 Lap membrane at joint is self-adhesive and sealed to manufacturer's recommendations.
 - .3 Stagger board/membrane joints per manufacturer's recommendations.
 - .4 Cold adhered overlayment board to substrate, to requirements of Part 1.
 - .5 Provide additional mechanical fastening as indicated.
 - .6 Base Flashing Installation:
 - .1 Flashing membrane to be torch applied, over end joints of overlayment boards, and to seal overlayment board membrane to parapets and upstands. Each strip to have 75 mm side laps and end laps.
 - .2 Application to provide a smooth surface, free of air pockets, wrinkles, fishmouths or tears.
 - .7 Cap Sheet Installation:
 - .1 Once the base sheet and base flashing has been applied, and does not show defects, the cap sheet can be laid.
 - .2 Cap sheet to be unrolled starting from the low point of the roof. Cap sheet to be rerolled from both ends prior to torching. Care must be taken for good alignment of the first roll (parallel with the edge of the roof).
 - .3 Cap sheet to be torch welded on to the base sheet membrane, in accordance with recommendations of the membrane manufacturer. During this application, both surfaces to be simultaneously melted, forming an asphalt bead, pushed out in front of the cap sheet. While the membrane is still hot, apply enough pressure with a steel roller onto the side lap so as to have bitumen seep out to create a continuous bead of bitumen on the side lap. Care should be taken not to embed
-

the granules into the bitumen.

- .4 Care must be taken not to burn the membranes, and their respective reinforcements.
- .5 Base sheet and cap sheet seams to be staggered a minimum of 300 mm.
- .6 Cap sheet to have side laps of 75 mm and end laps of 150 mm. Surface granules on end laps to be embedded prior to installation of following sheet.
- .7 Make sure the two membranes are properly welded, without air pockets, wrinkles, fishmouths or tears.
- .8 After installation of the cap sheet, check lap seams on the cap sheet.
- .9 During installation, care must be taken to avoid asphalt seepage greater than 5 mm at seams.

3.5 PROTECTION DURING WORK

- .1 Cover walls and adjacent work where materials hoisted or used.
- .2 Use warning signs and barriers. Maintain in good order until completion of work.
- .3 Clean off drips and smears of bituminous material immediately.
- .4 Dispose of rain water off roof and away from face of building until roof drains are installed and connected.
- .5 Protect roof from traffic and damage. Comply with precautions deemed necessary by Consultant.
- .6 At end of each day's work or when stoppage occurs due to inclement weather, provide protection for completed work and materials out of storage.
- .7 Place plywood runways over work to enable movement of materials and other traffic.

3.6 PROTECTION AFTER WORK COMPLETED

- .1 Contractor to repair damage caused by work of this contract - to adjacent roof and wall areas, and also to site areas such as lawns or paved areas that have damage caused by this contract.

3.7 CLEANING

- .1 Contractor to provide clean-up for this roofing area. Debris and excess roofing items to be removed from the site.

END OF SECTION

PART 1 GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described but not restricted to the following:
 - .1 To provide metal flashing around perimeter of roof area.

1.2 REFERENCES

- .1 The standards listed form part of this Specification to the extent of reference. The publications are in the text by the basic designation only.
- .2 American Society for Testing and Materials International (ASTM):
 - .1 ASTM A653/A653M-20, Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy Coated (Galvannealed) by the Hot-Dip Process.
 - .2 ASTM D523-14(2018), Test Method for Specular Gloss
 - .3 ASTM D822/D822M-13(2018), Practice for Filtered Open Flame Carbon Arc Exposures of Paint and Related Coatings
 - .4 ASTM D4586/D4586M-07(2018), Standard Specification for Asphalt Roof Cement, Asbestos-Free
 - .5 ASTM F1667/F1667M-21a, Driven Fasteners: Nails, Spikes and Staples

1.3 SUBMITTALS

- .1 Samples:
 - .1 Submit duplicate 2" x 2" (50 x 50 mm) samples of each type of sheet metal material, colour and finish.

1.4 ENVIRONMENTAL REQUIREMENTS

- .1 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling, storage and disposal of materials.

1.5 WASTE MANAGEMENT

- .1 Separate and recycle waste materials in accordance with General Requirements.

1.6 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Comply with manufacturer's recommendations for handling, storage and protection during installation.

- .2 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .3 Label packages to include material name, production date and/or product code.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Prefinished Steel Sheet Flashing
 - .1 Prefinished steel, with factory applied silicone modified polyester.
 - .1 To ASTM A653/A653M Z275 zinc coating designation; 26 gauge core steel. Shop pre-coated with modified silicone.
 - .2 Class F1S.
 - .3 Specular gloss: 30 units +/- 5 in accordance with ASTM D523
 - .4 Resistance to accelerated weathering for chalk rating of 8, colour fade 5 units, or less erosion rate less than 20% for ASTM D822
 - .1 Outdoor exposure 1000 hrs
 - .2 Humidity resistance 1000 hrs
 - .5 Ensure minimum 2" (50 mm) vertical leg on sheet metal flashing

2.2 ACCESSORIES

- .1 Isolation coating: alkali resistant bituminous paint.
- .2 Plastic cement: to ASTM D4586 Type I.
- .3 Underlay for metal flashing: dry sheathing
- .4 Cleats: of same material as flashing specified, and temper as sheet metal, minimum 2" (50 mm) wide. Thickness 22 gauge.
- .5 Fasteners: of same material as sheet metal, to ASTM F1667, ring thread flat head roofing nails of length and thickness suitable for metal flashing application.
- .6 Washers: of same material as sheet metal, with rubber packings.

2.3 FABRICATION

- .1 Fabricate metal flashings and other sheet metal work in accordance with applicable CRCA 'FL' series details as indicated.
- .2 Form pieces in 8'-0" (2440 mm) maximum lengths. Make allowance for expansion at joints.
- .3 Hem exposed edges on underside 1/2" (13 mm). Miter and seal corners with sealant.

- .4 Form sections square, true and accurate to size, free from distortion and other defects detrimental to appearance or performance.
- .5 Apply isolation coating to metal surfaces to be embedded in concrete.

PART 3 - EXECUTION

3.1 INSTALLATION

- .1 Use surface fasteners, installed at 2'-0" (610 mm) o.c.
- .2 Counterflash bituminous flashings at intersections of roof with vertical surfaces and curbs. Flash joints using S-lock forming tight fit over hook strips.
- .3 Lock end joints and caulk with sealant.
- .4 Install surface mounted reglets true and level, and caulk top of reglet with sealant.
- .5 Insert metal flashing into reglets under cap flashing to form weathertight junction.
- .6 Caulk flashing at reglet cap flashing with sealant.
- .7 Cut triangle on diagonal joint to minimize cut joint.

END OF SECTION

PART 1 - GENERAL

1.1 SUMMARY OF SECTION

- .1 As summarized and described, but not restricted to the following:
 - .1 Provide roof hatch and accessories as noted.

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM):
 - .1 ASTM A36/A36M-14: Standard Specification for Carbon Structural Steel
- .2 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
 - .1 Safety Data Sheets (SDS)
- .3 Province of [Nova Scotia], Occupational Health and Safety Association (OHSA) Regulations.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, including installation instructions, SDS, specifications and data sheets in accordance with Division 01, Submittal Procedures.
- .2 Shop Drawings:
 - .1 Indicate size and description of components, materials and finishes, hardware, and construction details. Show profiles, accessories, locations and dimensions.
 - .2 Indicate interface of roof hatch with roofing system.

1.4 SAFETY REQUIREMENTS

- .1 Observe the Provincial Occupational Health and Safety Regulations pertaining to roof hatch, safety rail and accessories, and their installation.

1.5 DESIGN CRITERIA

- .1 Operation of the cover to be smooth and easy with controlled operation throughout the entire arc of opening and closing.
 - .2 Operation of the cover not to be affected by temperature.
 - .3 Entire hatch to be weathertight with fully welded corner joints on cover and curb.
-

1.6 PERFORMANCE CRITERIA

- .1 Cover to be reinforced to support a minimum live load of 195 kg/m² (40 psf) with a maximum deflection of 1/150th of the span.
- .2 Safety rail to support a minimum live load of 2441 kg/m² (500 psf).

1.7 DELIVERY, STORAGE AND PROTECTION OF PRODUCT

- .1 Deliver and store materials in compliance with Division 01, Common Product Requirements.
- .2 Comply with manufacturer's recommendations for handling, storage and protection during installation.
- .3 Protect and store materials off the ground, away from physical damage and from becoming wet, soiled or covered with ice or snow before, during and after installation.
- .4 All materials to be delivered in manufacturer's original packaging.

1.8 EXTENDED WARRANTY

- .1 Roof Hatch: Provide Manufacturer's warranty that roof hatch will be free of defects in materials and workmanship for a period of five (5) years from the date of substantial completion.
- .2 Manufacturer to provide sticker decal on the interior face of the roof hatch indicating manufacturer's installer length of warranty.

PART 2 - PRODUCTS

2.1 ROOF HATCH

- .1 Standard of Acceptance: Bilco S-50 Roof Hatch, or approved alternate.
 - .1 Hatch opening size: 762 x 914 mm (30" x 36")
 - .3 Material: Cover and frame are 11 gauge aluminum.
 - .4 Cover: Brakeformed, hollow-metal design with 75 mm (3") concealed polyisocyanurate insulation (R18), 125 mm (5") beaded, overlapping flange, fully welded at corners, and internally reinforced for 195 kg/m² (40 psf) live load.
 - .5 Curb: 300 mm (12") in height with integral capflashing, 75 mm (3") polyisocyanurate insulation (R 18), fully welded at corners, and 140 mm (5-1/2") mounting flange with 12 mm (7/16") holes provided for securing frame to the roof deck.
 - .6 Gasket: Extruded EPDM rubber gasket permanently adhered to cover.
 - .7 Hinges: Heavy-duty pintle hinges with 9 mm (3/8") Type 316 stainless steel hinge pins.
 - .8 Latch: Slam latch with interior and exterior turn handles and interior padlock hasps.
-

- .9 Lift Assistance: Compression spring operators enclosed in telescopic tubes. Automatic hold-open arm with grip handle release.
- .11 Finish: Mill finish aluminum
- .12 Hardware: Engineered composite compression spring tubes and steel compression springs packed in grease. Type 316 stainless steel hinges. All other hardware is zinc plated/chromate sealed.

PART 3 - EXECUTION

3.1 EXAMINATION

- .1 Verify existing conditions before starting work.
- .2 Verify dimensions, tolerances, and method of attachment with other work.
- .3 Verify openings and adjoining substrate and roof assembly components are ready to receive roof hatch prior to fabrication.

3.2 PREPARATION OF SUBSTRATE

- .1 Verify that the substrate is dry, clean and free of foreign matter. Report and correct defects prior to installation.

3.3 INSTALLATION

- .1 Comply with roof hatch manufacturer's installation instructions.
- .2 Furnish non-corrosive mechanical fasteners compatible with the roof system.
- .3 Erect components plumb, level and in proper alignment.
- .4 Provide connection of roof membrane system and roof hatch that allows for water to drain away from roof hatch and curb.
- .5 Adjust and seal assembly with provision for expansion and contraction of components.
- .6 Secure prefabricated metal curb assembly to structure.
- .7 Secure prefabricated safety rail assembly to prefabricated curb assembly.
- .8 Apply bituminous paint on surfaces of units in contact with cementitious materials or dissimilar metals.

3.4 PROTECTION DURING WORK

- .1 Protect roof curb from damage from use during building construction.
-

3.5 ADJUSTMENT

- .1 Adjust hinges for smooth operation.

3.6 CLEANING

- .1 Remove protective films from surfaces of roof hatch.
- .2 Remove (and dispose of properly) construction debris and/or unused fasteners.

END OF SECTION

PART 1 – GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM B32-2008, Specification for Solder Metal.
 - .2 ASTM B306-13, Specification for Copper Drainage Tube (DWV).
 - .3 ASTM C564-14, Specification for Rubber Gaskets for Cast Iron Soil Pipe and Fittings.
 - .4 ASTM B209M-10, Specification for Aluminum and Aluminum Alloy Sheet and Plate Metric.
 - .5 ASTM C335/C335M-10e1, Test Method for Steady State Heat Transfer Properties of Horizontal Pipe Insulation
 - .6 ASTM C449-07(2013), Standard Specification for Mineral Fibre Hydraulic Setting Thermal Insulating and Finishing Cement.
 - .7 ASTM C533-13, Standard specification for Calcium Silicate Insulation Block and Pipe.
 - .8 ASTM C534/C534M-13, Standard Specification for Preformed Elastomeric Cellular Thermal Insulation in Sheet And Tubular Form.
 - .9 ASTM C547-12, Standard Specification for Mineral Fibre Pipe Insulation.
 - .10 ASTM C921-10, Practice for Determining the Properties of Jacketing Materials for Thermal Insulation.
- .2 Canadian General Standards Board (CGSB)
 - .1 CGSB 51GP52Ma, Vapour Barrier, Jacket and Facing Material for Pipe, Duct and Equipment Thermal Insulation.
 - .2 CAN/CGSB51.53, Poly (Vinyl Chloride) Jacketing Sheet, for Insulated Pipes, Vessels and Round Ducts.
- .3 Manufacturer's Trade Associations
 - .1 Thermal Insulation Association of Canada (TIAC): National Insulation Standards.
- .4 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULCS102-10, Surface Burning Characteristics of Building Materials and Assemblies.
 - .2 CAN/ULCS701-11 Thermal Insulation, Polystyrene, Boards and Pipe Covering.
 - .3 CAN/ULCS702-09, Thermal Insulation, Mineral Fibre, for Buildings
- .5 Canadian Standards Association (CSA)
 - .1 CAN/CSA B70-12, Cast Iron Soil Pipe, Fittings and Means of Joining.
 - .2 CAN/CSA B125.3-12, Plumbing Fittings.

1.2 QUALIFICATIONS

- .1 Installer to be specialist in performing work of this Section, and have at least five (5) years successful experience in this size and type of project, qualified to standards of TIAC.
-

1.3 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials to site in original factory packaging, labelled with manufacturer's name, address.
- .2 Protect from weather, construction traffic.
- .3 Protect against damage from any source.
- .4 Store at temperatures and conditions required by manufacturer.

PART 2 – PRODUCTS

2.1 ROOF DRAIN

- .1 Standard of Acceptance: based on Zurn ZA-100-DP standard roof drain, or approved alternate.
 - .1 Cast iron body with membrane flashing clamp.
 - .2 Top Set Deck Plate.
 - .3 Aluminum Dome.
 - .4 4" (100mm) Outlet.

2.2 PVC PIPING AND FITTINGS: FOR INTERIOR WORK

- .1 Above ground sanitary storm and vent: to CAN/CSA B1800.
 - .1 Mechanical connection joints: Neoprene or butyl rubber compression gaskets with stainless steel clamps.

2.3 THERMAL INSULATION FOR PIPING

- .1 Fire and smoke rating:
 - .1 In accordance with CAN/ULCS102.
 - .1 Maximum flame spread rating: 25.
 - .2 Maximum smoke developed rating: 50.
 - .2 Insulation:
 - .1 Mineral fibre specified includes glass fibre, rock wool, slag wool.
 - .2 Thermal conductivity ("k" factor) not to exceed specified values at 24 C mean temperature when tested in accordance with ASTM C335.
 - .3 TIAC Code A3: Rigid moulded mineral fibre with factory applied vapour retarder jacket.
 - .1 Mineral fibre: to CAN/ULC S702 and ASTM C547.
 - .2 Jacket: to CGSB 51GP52Ma.
 - .3 Maximum "k" factor: to CAN/ULC S702.
-

- .4 TIAC Code C2: Mineral fibre blanket faced with factory applied vapour retarder jacket (as scheduled in PART 3 of this section).
 - .1 Mineral fibre: to CAN/ULCS702.
 - .2 Jacket: to CGSB 51GP52Ma.
 - .3 Maximum "k" factor: to CAN/ULC S702.
- .5 TIAC Code A6: flexible unicellular tubular elastomer.
 - .1 Insulation: with vapour retarder jacket to ASTM C534.
 - .2 Jacket: to CGSB 51GP52Ma.
 - .3 Maximum "k" factor: 0.039 W/mC.
 - .4 To be certified by manufacturer to be free of potential stress, corrosion, and/or cracking.
 - .5 Flame spread index less than 25 and smoke developed index less than 50.
- .6 Acceptable Manufacturers: Manson, Knauf, Owens Corning.

- .3 Insulation Securement:
 - .1 Tape: Self-adhesive, aluminum, plain reinforced, 50 mm wide minimum.
 - .2 Contact adhesive: Quick setting.
 - .3 Canvas adhesive: Washable.
 - .4 Tie wire: 1.5 mm diameter stainless steel.
 - .5 Bands: Stainless steel, 19 mm wide, 0.5 mm thick.

- .4 Thermal insulating and finishing cement:
 - .1 Hydraulic setting or air drying on mineral wool, to ASTM C449/C449M.

- .5 Vapour Retarder Lap Adhesive:
 - .1 Water based, fire retardant type, compatible with insulation.

- .6 Indoor Vapour Retarder Finish:
 - .1 Vinyl emulsion type acrylic, compatible with insulation.
 - .2 For Type A6 insulation to manufacturer's recommendation.

- .7 Jackets:
 - .1 Canvas:
 - .1 220gm/m2 cotton, plain weave, treated with dilute fire retardant lagging adhesive to ASTM C921.
 - .2 Lagging adhesive: Compatible with insulation.
 - .2 Aluminum:
 - .1 To ASTM B209.
 - .2 Thickness: 0.40 mm sheet.
 - .3 Finish: Stucco embossed or corrugated.
 - .4 Joining: Longitudinal and circumferential slip joints with 50 mm laps.
 - .5 Fittings: 0.5 mm thick die shaped fitting covers with factory attached protective liner.
 - .6 Metal jacket banding and mechanical seals: stainless steel, 19 mm wide, 0.5 mm thick at 300 mm spacing.
 - .3 Self-adhesive Weather Barrier Membrane:
 - .1 Flexible SBS modified membrane impermeable to air, moisture vapour and water. UV light resistant, flame free adhesion.
 - .4 Henry Bakor Foilskin, or approved equivalent.

PART 3 - EXECUTION

3.1 PIPE INSTALLATION

- .1 Install in accordance with Canadian Plumbing Code and local authority having jurisdiction.
- .2 Install piping parallel and close to walls to conserve headroom and space, and grade as indicated.
- .3 Provide pipe firestop barriers and/or collars on the underside of fire-rated floors and both sides of fire-rated partitions that are penetrated.
 - .1 Acceptable Manufacturer: 3M Firestop.

3.2 PERFORMANCE VERIFICATION

- .1 Storm Water Drainage:
 - .1 Verify domes are secure.
 - .2 Verify provisions for movement of roof system.
 - .3 Confirm fixtures are properly anchored, connected to system and effectively vented.
 - .4 Affix applicable label (storm, sanitary, vent, pump discharge etc.) complete with directional arrows every floor or 4.5 m (whichever is less).
- .2 Pressure testing of piping systems and adjacent equipment to be complete, witnessed and certified.
- .3 Surfaces clean, dry, and free from foreign material.

3.3 INSULATION INSTALLATION

- .1 Install in accordance with TIAC National Standards.
 - .2 Apply materials in accordance with manufacturer's instructions and this specification.
 - .3 Use two (2) layers with staggered joints when required nominal wall thickness exceeds 75 mm.
 - .4 Maintain uninterrupted continuity and integrity of vapour retarder jacket and finishes.
 - .1 Hangers, supports to be outside vapour retarder jacket.
 - .5 Supports, Hangers:
 - .1 Apply high compressive strength insulation, suitable for service, at oversized saddles and shoes where insulation saddles have not been provided.
-

3.4 INSTALLATION OF ELASTOMERIC INSULATION

- .1 Insulation to remain dry at all times. Overlaps to manufacturer's instructions. Ensure tight joints.
- .2 Provide vapour retarder as recommended by manufacturer.

END OF SECTION



April 5, 2024

HRCE - Halifax Regional Centre for Education
33 Spectacle Lake Drive
Dartmouth, Nova Scotia B3B 1X7

Re: Hazardous Building Materials Assessment (Management)
Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Pinchin File: 336128.009

HRCE (Client) retained Pinchin Ltd. (Pinchin) to conduct a hazardous building materials assessment of Ellenvale Junior High School located at 88 Belle Vista Drive, Dartmouth, NS.

Pinchin performed the assessment between March 5 to March 7, 2024. The assessor was unaccompanied during the assessment. The assessment was completed outside of regular school hours when teachers and students were not present. The assessed area was only occupied by maintenance staff at the time of the assessment.

The objective of the assessment was to document the locations of specified hazardous building materials, evaluate their condition and develop corrective action plans as required. This assessment is only to be used for the purposes of long-term management and routine maintenance. The results of this assessment are not to be used for construction, renovation, demolition or project tendering purposes.

The **assessed area** consisted of all interior and exterior areas of the building accessible with a 6-foot ladder, excluding the roof.

The assessment was performed to establish the type of specified hazardous building materials, locations and approximate quantities incorporated in the structure and its finishes.

For the purpose of the assessment and this report, hazardous building materials are defined as follows:

- Asbestos
- Lead
- Silica
- Mercury
- Polychlorinated Biphenyls (PCBs)
- Mould and Water Damage



1.0 RECOMMENDATIONS

1.1 On-going Management and Maintenance

The following recommendations regard on-going management and maintenance work involving the ACM identified.

1.1.1 Asbestos

Inspect all accessible confirmed and presumed ACM at reasonable intervals and update the written documentation annually, as required by provincial guidelines.

Update the asbestos inventory report for all new information obtained (i.e., new materials, change of condition, abatement performed).

Remove ACM before alteration or maintenance work if ACM may be disturbed. Follow appropriate asbestos precautions for the classification of work as per applicable regulations and guidelines.

Asbestos-containing materials must be disposed of at a landfill approved to accept asbestos waste.

1.1.2 Lead

For paints identified as having low levels of lead (i.e., equal to or above 0.009% (90 mg/kg) but less than or equal to the EACC guideline of 0.1% (1,000 mg/kg) for lead-containing paints special precautions are not recommended unless aggressive disturbance (grinding, blasting, torching) is planned.

Exposure from construction disturbance of paints containing lead less than 0.009% (90 mg/kg) is assumed to be insignificant.

Items painted with paints containing elevated levels of lead may be a hazardous waste. Test lead-painted materials for leachable lead and other metals prior to disposal. Metallic components coated with lead paint do not require leachate testing and can be disposed of as non-hazardous construction and demolition (C&D) waste.

Lead-containing items should be recycled when taken out of service.

1.1.3 Silica

Disturbance of silica-containing products during maintenance activities may result in excessive exposures to airborne silica, especially if performed indoors and dry. Cutting, grinding, drilling or demolition of materials containing silica should be completed only with proper respiratory protection and other worker safety precautions that comply with per applicable regulations and guidelines.



1.1.4 Mercury

Do not break lamps or separate liquid mercury from components. Recycle and reclaim mercury from fluorescent lamps and thermostats when taken out of service. Mercury is classified as a hazardous waste and must be disposed of in accordance with applicable regulations.

1.1.5 PCBs

When light fixtures are removed from service, examine light ballasts for PCB content. If ballasts are not clearly labelled as “non-PCB” or are suspected to contain PCBs; package and ship ballasts for destruction at a federally permitted facility. All ballasts that contain PCBs must be removed from service and disposed of by December 31, 2025.

1.2 Construction and Demolition

This assessment report does not provide sufficient detail to support renovation and demolition work. Therefore, perform a detailed intrusive assessment before building renovation or demolition operations. The assessment should include destructive testing (e.g., coring, removal of building finishes and components), and sampling of any other materials not tested (e.g., roofing materials, caulking, mastics).

2.0 BACKGROUND INFORMATION

2.1 Assessed Area Description Summary

Description Item	Details
Building Use	Junior high school
Floors Above Grade	2
Floors Below Grade	0
Total Area (square feet)	56,449
Year of Construction	1967
Structure	Poured concrete foundation, Structural steel, Concrete block
Exterior Cladding	Brick, Metal cladding, Transite
HVAC	Mechanical Room Air Handling Units, Boiler with radiators
Roof	Unknown (Not assessed)
Flooring	Vinyl floor tile, Vinyl sheet flooring, Terrazzo, Ceramic/stone tile
Wall and Ceiling Finishes	Drywall, Plaster, Ceramic, Wood, Concrete block, Lay-in ceiling tiles, Glued/splined ceiling tiles



2.2 Existing Reports

2.2.1 Review of Previous Reports

A report provided by HRCE pre-dated 2000 and was not utilized, based on significant regulatory changes since the report publication, and the likelihood that site conditions, including renovations, have resulted in significant changes for the reported information.

2.3 Inaccessible Locations

The following location was not accessible during the assessment:

Location Number	Location Name, (Location No.)	Reason
18	Safe	Maintenance staff doesn't have the key

3.0 FINDINGS

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

3.1 Asbestos

The following table summarizes the materials evaluated for asbestos in the assessed area. For details on approximate quantities, condition, friability, accessibility, and locations of hazardous building materials; refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI.

Any quantities listed in this report or data tables are estimated based on visual approximations only and are subject to variation.

Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0001 ABC	Other Caulking Grey, between brick and wood soffit	None Detected	No	72 LF	
S0002 ABC	Wall Caulking Light grey, door frame	None Detected	No	125 LF	
S0003 ABC	Piping Hot Water Heating Parging Cement	Chrysotile	Yes	231 EA	
				15 SF (debris)	
S0004 ABC	Ceiling Plaster	None Detected	No	800 SF	



Hazardous Building Materials Assessment (Management)

Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
 HRCE – Halifax Regional Centre for Education

April 5, 2024
 Pinchin File: 336128.009

Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0005 ABCDE FG	Ceiling, Wall Plaster	None Detected	No	26,485 SF	
S0006 ABC	Floor Vinyl Floor Tile and Mastic 12" beige with light brown flecks	Chrysotile	Yes	6,775 SF	1
S0007 ABCDE FG	Ceiling, Wall Drywall and joint compound	Chrysotile	Yes	31,540 SF	
S0008 ABC	Floor Vinyl Floor Tile and Mastic 12" light green with green streaks	Chrysotile	Yes	3,585 SF	1
S0009 ABC	Floor Vinyl Floor Tile and Mastic 12" light brown with beige streaks	Chrysotile	Yes	2,940 SF	1
S0010 ABC	Floor Vinyl Floor Tile and Mastic 12" light blue with white streaks	Chrysotile	Yes	2,490 SF	2
S0011 ABC	Piping Domestic Water Parging Cement	Chrysotile	Yes	79 EA 2 SF (debris)	
S0012 ABC	Floor Vinyl Floor Tile and Mastic 12" pale brown with beige streaks	Chrysotile	Yes	4,385 SF	2
S0013 ABC	Floor Vinyl Floor Tile and Mastic 12" pale blue with dark and light flecks	Chrysotile	Yes	2,340 SF	1
S0014	Other Mastic, Gold	Chrysotile	Yes	15 EA	
S0015 ABC	Floor Vinyl Floor Tile and Mastic 12" dark blue with dark flecks	Chrysotile	Yes	110 SF	1
S0016 ABC	Floor Vinyl Floor Tile and Mastic 12" pale green with light streaks	Chrysotile	Yes	3,700 SF	2
S0017 ABC	Floor Vinyl Floor Tile and Mastic 12" cream with brown streaks	Chrysotile	Yes	310 SF	2
S0018 ABC	Floor Vinyl Floor Tile and Mastic 12" tan	Chrysotile	Yes	950 SF	3
S0019 ABC	Wall Caulking Light grey, door frame	Chrysotile	Yes	18 LF	



Hazardous Building Materials Assessment (Management)

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April 5, 2024

Pinchin File: 336128.009

Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
S0020 ABC	Wall Caulking Butyl seal	None Detected	No	55 LF	
S0021 ABC	Floor Vinyl Floor Tile and Mastic 12" light grey with white streaks	Chrysotile	Yes	58 SF	2
S0022 ABC	Floor Vinyl Floor Tile and Mastic 12" light purple with white streaks	None Detected	No	60 SF	
S0023 ABC	Floor Vinyl Floor Tile and Mastic 12" purple with light and dark flecks	None Detected	No	795 SF	
S0024 ABC	Duct Mastic Green	None Detected	No	36 LF	
S0025 ABC	Wall Caulking Grey	None Detected	No	28 LF	
S0026 ABC	Floor Vinyl Floor Tile and Mastic 12" light brown with brown flecks	Chrysotile	Yes	60 SF	1
S0027 ABC	Floor Vinyl Floor Tile and Mastic 12" pink with white streaks	Chrysotile	Yes	1,475 SF	1
S0028 ABC	Wall Caulking Light grey, between brick and door frame	None Detected	No	20 LF	
S0029 ABC	Floor Vinyl Sheet Flooring Beige marble battleship flooring	None Detected	No	60 SF	
S0030 ABC	Floor Vinyl Floor Tile and Mastic 12" beige with dark brown streaks	Chrysotile	Yes	1,100 SF	2
S0031 ABC	Floor Vinyl Sheet Flooring Pink and brown marble battleship flooring	None Detected	No	90 SF	
S0032 ABC	Floor Vinyl Floor Tile and Mastic 12" beige with brown and white flecks	None Detected	No	115 SF	
S0033 ABC	Wall Caulking Grey, between wood and cement board	None Detected	No	10 LF	
V9500	Ceiling Ceiling tiles (glue-on)	Presumed Asbestos	Yes	4,600 SF	4



Sample Number	Material Description	Type of Asbestos	Confirmed Hazard	Total Quantity Present	Material Specific Notes
V9500	Floor Mortar Ceramic tile thinset	Presumed Asbestos	Yes	86 SF	
V9500	Floor Terrazzo	Presumed Asbestos	Yes	7,770 SF	
V9500	Other Countertop Bakelite	Presumed Asbestos	Yes	10 SF	5
V9500	Wall Cement Product Transite	Presumed Asbestos	Yes	1,000 SF	6
V9500	Wall Mortar Ceramic tile thinset	Presumed Asbestos	Yes	500 SF	
V0000	Ceiling Ceiling Tiles (lay-in)	Non Asbestos	No	Throughout	
V0000	Wall Window Caulking Silicone	Non Asbestos	No	Throughout	

Material Specific Notes:

1. Mastic is asbestos-containing, and vinyl floor tiles are non-asbestos; however, due to the contamination of the vinyl tiles from the mastic, the tiles would be considered asbestos-containing for removal purposes.
2. Vinyl floor tile and mastic were both determined to be asbestos-containing.
3. Vinyl floor tiles and mastic are non-asbestos; however, the sampling also included asbestos-containing levelling compound. Other vinyl floor tiles and mastic present in the same locations (Locations 27 and 35) are asbestos-containing (samples S0006 and S0012).
4. Ceiling tiles were not accessible for sampling due to height.
5. Black countertops may be asbestos-containing resin (known as Bakelite); however, sampling was not performed due to the destructive nature.
6. Presumed asbestos-containing cement board panels (Transite) concealed by metal cladding on building exterior.

General Notes:

Materials identified as Sample Number V9500 were either observed to be present or based on the construction of the building/equipment are likely present in concealed locations. These materials have not been sampled and are presumed to contain asbestos based on historical known use of asbestos. Sampling of these materials may be completed prior to disturbance.



Materials identified as Sample Number V0000 were determined to be non-asbestos based on the manufacture date and known end of use of asbestos in these products.

3.1.1 Excluded Asbestos Materials

The following is a list of materials which may contain asbestos and were excluded from the assessment. These materials are presumed to contain asbestos until otherwise proven to be non-asbestos by sampling and analysis:

- Roofing felts and tar, mastics
- Floor levelling compound (where not sampled)
- Electrical components
- Refractory materials and insulations in boilers and stacks
- Insulation under metal clad boilers and vessels
- Mechanical packing, ropes, and gaskets
- Fire resistant doors
- Vibration dampers on HVAC equipment
- Ropes and gaskets in cast-iron bell and spigot joints
- Sealants on pipe threads

3.2 Lead

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on locations, condition and approximate quantities on paints sampled and their locations.

Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Material Specific Notes
L0001	Structure Concrete (poured) Grey	240 mg/kg	Yes	1,200 SF	
L0002	Other Wood White	470 mg/kg	Yes	1,900 SF	
L0003	Floor Concrete (poured) Grey/red	120 mg/kg	Yes	800 SF	
L0004	Wall Masonry White	<81 mg/kg	No	3,990 SF	
L0005	Wall Plaster Off-white	<80 mg/kg	No	42,400 SF	
L0006	Wall Plaster Pale yellow	830 mg/kg	Yes	20,060 SF	
L0007	Wall Plaster Pale pink	450 mg/kg	Yes	750 SF	



Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Material Specific Notes
L0008	Wall Masonry Black	<80 mg/kg	No	1,100 SF	
L0009	Wall Masonry Tan	92 mg/kg	Yes	11,600 SF	
L0010	Wall Plaster Pale green	670 mg/kg	Yes	680 SF	
L0011	Wall Wood White	<80 mg/kg	No	9,200 SF	

General Notes:

Results less than or equal to 0.1% (1,000 mg/kg), but equal to or greater than 0.009% (90 mg/kg), are considered low-level lead paints or surface coatings in accordance with the EACC guideline.

Paints containing lead less than 0.009% (90 mg/kg) is assumed to be insignificant.

3.2.1 Lead Products and Applications

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report for details on lead-products including their locations and quantities.

Sample Number	Material Description	Confirmed Hazard	Total Quantity Present	Material Specific Notes
V9000	Batteries (other)	Yes	2 EA	1
V9000	Bell And Spigot Fittings	Yes	86 EA	
V9500	Batteries (other)	Yes	1 EA	
V9500	Batteries In Emer. Lights	Yes	37 EA	

Material Specific Notes:

1. Lead-containing battery present in the fire alarm power supply located in the Secretary Office (Location 14) and the Hallway (Location 47).

General Notes:

Items identified as Sample Number V9500 were observed to be present but could not be definitively determined to contain lead (e.g., inaccessible batteries).

Items identified as Sample Number V9000 were observed to be present and were determined to contain lead based on visual observation (e.g., bell and spigot joints, lead shielding and flashing).

3.2.2 Excluded Lead Materials

Lead may be present in a number of materials which were not assessed and/or sampled. The following materials, where found, should be considered to contain lead.

- Electrical components, including wiring connectors, grounding conductors, and solder



- Solder on pipe connections
- Glazing on ceramic tiles

3.3 Silica

Crystalline silica is a presumed component of the following materials:

- Concrete
- Masonry and mortar
- Ceramic tiles and grout
- Refractory or ceramic materials
- Terrazzo

3.4 Mercury

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on mercury-containing products including their locations and quantities.

Sample Number	Material Description	Confirmed Hazard	Total Quantity Present	Material Specific Notes
V9000	Light Fixture	Yes	47 EA	
V0000	Light Fixture	No	769 EA	

General Notes:

Items identified as Sample Number V9000 were observed to be present and were determined to contain mercury based on visual observation (e.g., labelled lamps and ampules in thermostats).

Items identified as Sample Number V0000 are items that historically may have contained mercury; however, have been visually identified as non-mercury types (e.g., LED lamps, digital or electric thermostats).

3.5 Polychlorinated Biphenyls

Refer to the Hazardous Material Summary / Sample Log and Confirmed and Presumed Report in Appendices V and VI for details on PCB-products including their locations and quantities.

Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Material Specific Notes
P0001	Caulking Grey, Between Brick and Wood Soffit	<0.5 mg/kg	No	72 LF	



Sample Number	Material Description	Concentration	Confirmed Hazard	Total Quantity Present	Material Specific Notes
V9500	Light Ballasts		Yes	20 EA	
V0000	Light Ballasts		No	816 EA	T8 fixtures

General Notes:

Materials identified as Sample Number V9500 were either observed to be present or based on the construction of the building/equipment are likely present in concealed locations. These materials have not been sampled and are presumed to contain PCBs based on historical known use. Sampling of these materials may be completed prior to disturbance.

Materials identified as Sample Number V0000 were determined to be non-PCB based on previous analytical results, the manufacture date and regulated restrictions of PCBs. It can also include items that historically may have contained PCBs; however, have been visually identified as non-PCB types (e.g., LED light fixtures, T8 fixtures).

3.5.1 Excluded PCB Materials

PCBs are known to be present in several materials and equipment which were not assessed or sampled. The following materials, where found, should be presumed to contain PCBs until sampling proves otherwise.

- Capacitors within or associated with electrical equipment
- Caulking and sealants (except where sampled)
- Paints

4.0 METHODOLOGY

Pinchin conducted a room-by-room assessment (rooms, corridors, service areas, exterior, etc.) to identify the hazardous building materials as defined in the scope.

The assessment was limited to non-intrusive testing. Concealed spaces such as those above solid ceilings and within shafts and pipe chases were accessed via existing access panels only. Destructive testing of flooring was not conducted (under carpets or multiple layers of flooring). Demolition of walls, solid ceilings, structural items, interior finishes or exterior building finishes, to determine the presence of concealed materials was not conducted. Sampling of roofing materials was not conducted.

For further details on the methodology including test methods and evaluation criteria, refer to Appendix III.



5.0 REFERENCES

The following legislation and documents were referenced in completing the assessment and this report:

1. Nova Scotia Occupational Safety General Regulation (N.S. Reg. 53/2013).
2. A Guide to Removal of Friable Asbestos-Containing Material.
3. A Guide to Assessment and Management of Asbestos in the Workplace.
4. Asbestos Waste Management Regulations, N.S. Reg. 53/95.
5. Lead in the Workplace: A Guide to Working with Lead, revised January 18, 2019.
6. The Environmental Abatement Council of Canada (EACC) Lead Guideline for Construction, Renovation, Maintenance or Repair.
7. Guidelines for Disposal of Contaminated Solids in Landfills.
8. Nova Scotia Environment Act, 1994-95.
9. Mercury Diversion Standard, N.S. Reg. 161/2018.
10. PCB Management Regulations, N.S. Reg. 163/97.
11. PCB Regulations, SOR/2008-273, Canadian Environmental Protection Act.
12. Surface Coating Materials Regulations, SOR/2016-193, Canada Consumer Product Safety Act.
13. Consolidated Transportation of Dangerous Goods Regulations, including Amendment SOR/2019-101, Transportation of Dangerous Goods Act.
14. Mould Guidelines for the Canadian Construction Industry, Standard Construction Document CCA 82 – 2004 (Revised 2018), Canadian Construction Association.

6.0 LIMITATIONS

This work was performed subject to the Terms and Limitations presented or referenced in the proposal for this project.

Information provided by Pinchin is intended for Client use only. Pinchin will not provide results or information to any party unless disclosure by Pinchin is required by law. Any use by a third party of reports or documents authored by Pinchin or any reliance by a third party on or decisions made by a third party based on the findings described in said documents, is the sole responsibility of such third parties. Pinchin accepts no responsibility for damages suffered by any third party as a result of decisions made or actions conducted. No other warranties are implied or expressed.



7.0 CLOSURE

Contact the undersigned should you have any questions.

Sincerely,

Pinchin Ltd.

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|-------|---------------|---|
| Encl: | APPENDIX I | Drawings |
| | APPENDIX II-A | Asbestos Analytical Certificates |
| | APPENDIX II-B | Lead Analytical Certificates |
| | APPENDIX II-C | PCB Analytical Certificates |
| | APPENDIX III | Methodology |
| | APPENDIX IV | Location Summary Report |
| | APPENDIX V | Hazardous Materials Summary Report / Sample Log |
| | APPENDIX VI | Confirmed and Presumed Report |
| | APPENDIX VII | Photographs |

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 Ellenvale Jr High Dartmouth NS HRCE Apr 5 2024.docx
 Template: Master Template HBMA Management, HMIS, HAZ April 18, 2023

APPENDIX I
Drawings






LEGEND

-  PINCHIN LOCATION NUMBER
-  ASBESTOS BULK SAMPLE
-  LEAD BULK SAMPLE
-  PCB BULK SAMPLE

NAR NO ACCESS TO ROOM/AREA

ASBESTOS-CONTAINING MATERIALS:

-  VINYL FLOOR TILE AND MASTIC
-  THERMAL SYSTEM INSULATION
-  FLOOR MASTIC

FOR CLARITY, THE FOLLOWING ASBESTOS-CONTAINING MATERIALS, ARE PRESENT IN THE ASSESSED AREA, BUT HAVE NOT BEEN HATCHED ON THE DRAWING:

-  DRYWALL JOINT COMPOUND
-  SINK MASTIC
-  CAULKING

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

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



PROJECT NAME:
HAZARDOUS BUILDING MATERIALS ASSESSMENT

CLIENT NAME:
HALIFAX REGIONAL CENTRE FOR EDUCATION

PROJECT LOCATION:
**ELLENVALE JR HIGH SCHOOL
88 BELLE VISTA DRIVE,
DARTMOUTH, NOVA SCOTIA**

FIGURE NAME:
GROUND FLOOR SAMPLE LOCATION PLAN

PROJECT NUMBER:
336128.009

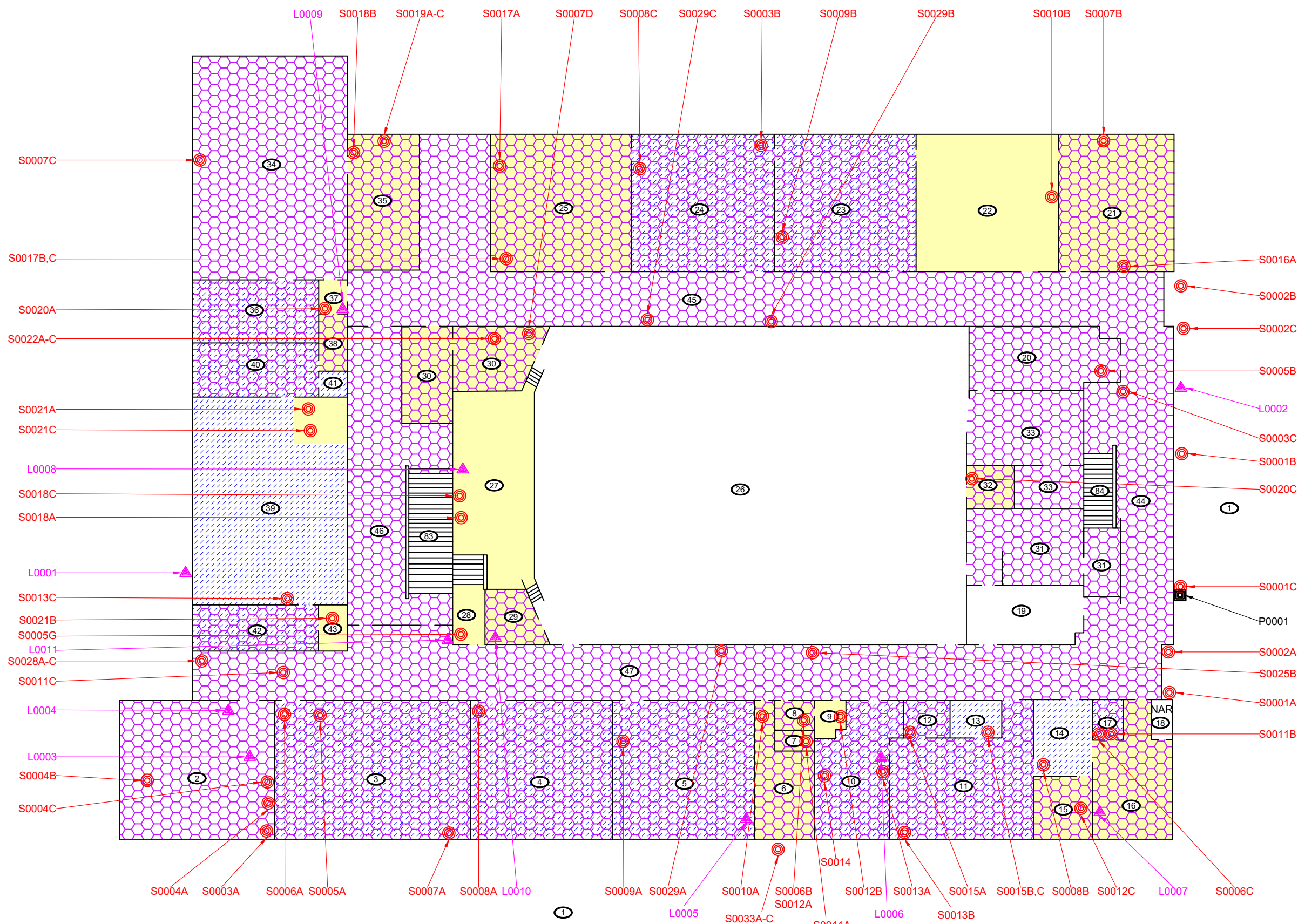
SCALE:
NOT TO SCALE

DRAWN BY:
NJ

REVIEWED BY:
AP

DATE:
APRIL 2024

FIGURE NUMBER:
1 OF 2





LEGEND

- PINCHIN LOCATION NUMBER
- ASBESTOS BULK SAMPLE

ASBESTOS-CONTAINING MATERIALS:

- VINYL FLOOR TILE AND MASTIC
- FLOOR MASTIC

FOR CLARITY, THE FOLLOWING ASBESTOS-CONTAINING MATERIALS, ARE PRESENT IN THE ASSESSED AREA, BUT HAVE NOT BEEN HATCHED ON THE DRAWING:

- DRYWALL JOINT COMPOUND
- SINK MASTIC

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

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



PROJECT NAME:
HAZARDOUS BUILDING MATERIALS ASSESSMENT

CLIENT NAME:
HALIFAX REGIONAL CENTRE FOR EDUCATION

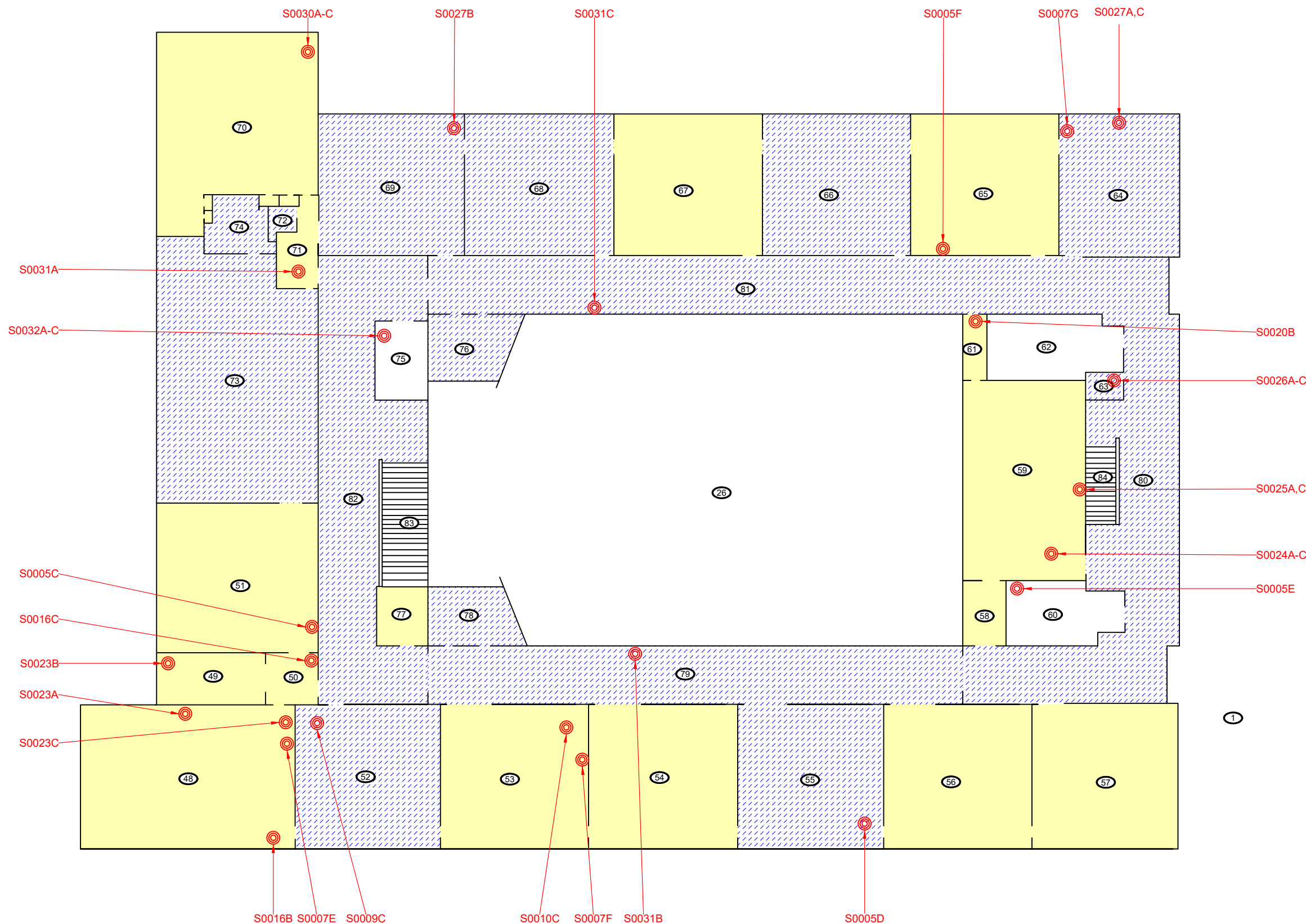
PROJECT LOCATION:
**ELLENVALE JR HIGH SCHOOL
88 BELLE VISTA DRIVE,
DARTMOUTH, NOVA SCOTIA**

FIGURE NAME:
SECOND FLOOR SAMPLE LOCATION PLAN

PROJECT NUMBER: 336128.009
SCALE: NOT TO SCALE

DRAWN BY: NJ
REVIEWED BY: AP

DATE: APRIL 2024
FIGURE NUMBER: 2 OF 2



APPENDIX II-A
Asbestos Analytical Certificates



Pinchin Ltd. Asbestos Laboratory *Certificate of Analysis*

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Analyst(s): J. Stapleton

Date Received: March 8, 2024 **Samples Submitted:** 35
Date Analyzed: March 15, 2024 **Phases Analyzed:** 49

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0001A Soffit, Caulking, Grey, Between Brick And Wood Soffit, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%
S0001B Soffit, Caulking, Grey, Between Brick And Wood Soffit, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%
S0001C Soffit, Caulking, Grey, Between Brick And Wood Soffit, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Non-Fibrous Material > 75%
S0002A Wall, Door, Caulking, Light Grey, Door Frame, Loc:1, Exterior	Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
S0002B Wall, Door, Caulking, Light Grey, Door Frame, Loc:1, Exterior	Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
S0002C Wall, Door, Caulking, Light Grey, Door Frame, Loc:1, Exterior	Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
S0003A Piping, Hot Water Heating, Parging Cement, Loc:2, Boiler Room	Homogeneous, grey, soft, parging cement.	Chrysotile 50-75%	Non-Fibrous Material 25-50%
S0003B Piping, Hot Water Heating, Parging Cement, Loc:24, Classroom			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0003C Piping, Hot Water Heating, Parging Cement, Loc:44, Hallway			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S0004A Ceiling, Plaster, Base Coat, Loc:2, Boiler Room	2 Phases: a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, beige, finishing or texture coat.	None Detected	Vermiculite 5-10% Other Non-Fibrous > 75%
S0004B Ceiling, Plaster, Base Coat, Loc:2, Boiler Room	2 Phases: a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, beige, finishing or texture coat.	None Detected	Vermiculite 5-10% Other Non-Fibrous > 75%
S0004C Ceiling, Plaster, Base Coat, Loc:2, Boiler Room	2 Phases: a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, beige, finishing or texture coat.	None Detected	Vermiculite 5-10% Other Non-Fibrous > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0005A Wall, Interior, Plaster, Loc:3, Music Room	2 Phases: a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
S0005B Wall, Interior, Plaster, Loc:20, Girls Washroom	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
S0005C Wall, Interior, Plaster, Loc:51, Classroom	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, grey, granular, cementitious material.	None Detected	Non-Fibrous Material > 75%
Comments:	Due to the condition of the sample, the order of phases reported may not reflect the actual order in situ.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0005D Wall, Interior, Plaster, Loc:55, Classroom	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
S0005E Wall, Interior, Plaster, Loc:60, Boys Washroom	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
S0005F Wall, Interior, Plaster, Loc:65, Classroom	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%
S0005G Wall, Interior, Plaster, Loc:28, Exit Stage Right	a) Homogeneous, light beige, cementitious, plaster base coat.	None Detected	Perlite 5-10% Other Non-Fibrous > 75%
	b) Homogeneous, white, hard, cementitious, plaster top coat.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0006A Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:3, Music Room	a) Homogeneous, light beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material <1%
S0006B Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:8, Janitor Room	a) Homogeneous, light beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0006C Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:17, Washroom	a) Homogeneous, light beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0007A Wall, Exterior, Drywall And Joint Compound, Loc:3, Music Room	Homogeneous, off-white, drywall joint compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

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Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			
		ASBESTOS		OTHER	
S0007B Wall, Exterior, Drywall And Joint Compound, Loc:21, Library	a) Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
	b) Homogeneous, white, drywall joint compound.	None Detected		Non-Fibrous Material	> 75%
S0007C Wall, Exterior, Drywall And Joint Compound, Loc:34, Wood Shop	Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
S0007D Wall, Interior, Drywall And Joint Compound, Loc:30, Gym Storage	a) Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
	b) Homogeneous, light beige, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
S0007E Wall, Interior, Drywall And Joint Compound, Loc:48, Science Lab	Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
S0007F Wall, Interior, Drywall And Joint Compound, Loc:53, Classroom	Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
S0007G Wall, Interior, Drywall And Joint Compound, Loc:64, Breakfast Room	Homogeneous, off-white, drywall joint compound.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0008A Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:4, Classroom	a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0008B Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:14, Secretary Office	a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0008C Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:24, Classroom	a) Homogeneous, green, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0009A Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:5, Classroom	a) Homogeneous, brown, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis


Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309830
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0009B Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:23, Classroom	2 Phases: a) Homogeneous, brown, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0009C Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:52, Classroom	2 Phases: a) Homogeneous, brown, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		

Reviewed by:


 Digitally signed
 by Pinchin Ltd.
 Date: 2024.03.15
 15:57:57-04'00'

Reporting Analyst:

Jason Stapleton
 2024.03.15 15:04:02-03'00' 

Analyzed By: JS

Reviewed By: KB

Report Sent By: KB

Pinchin Ltd. - Asbestos Laboratory Internal Asbestos Bulk Sample Chain of Custody

Client Name:	HRCE	Project Address:	88 Belle Vista Drive, Dartmouth, NS
Portfolio/Building No:	Ellenvale Junior High School	Pinchin File:	336128.009
Submitted by:	J Munro	Email:	jmunro@pinchin.com
CC Results to:	A Thebeau	CC Email:	athebeau@pinchin.com
Date Submitted:	March 08 2024	Required by:	Month Day 2020
# of Samples:	35	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory, Years ONLY):	1967		
Do NOT Stop on Positive (Sample Numbers):	S0005A-G; S0007A-G		
Pinchin Group Company (Mandatory Field):	Pinchin		
HMIS2 Building Reference #:	131201/20242551671265		

To be Completed by Lab Personnel Only:			
Lab Reference #:	<u>b309830</u>	Time:	24 hour clock
Received by:	J. Stapleton	Date: <u>Mar 8/24</u>	March 8 2024
Name(s) of Analyst(s):	<u>J. Stapleton</u>		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0001	A	Soffit,Caulking,Grey, Between Brick And Wood Soffit,Loc:1,Exterior <u>ND</u>
S	0001	B	Soffit,Caulking,Grey, Between Brick And Wood Soffit,Loc:1,Exterior <u>ND</u>
S	0001	C	Soffit,Caulking,Grey, Between Brick And Wood Soffit,Loc:1,Exterior <u>ND</u>
S	0002	A	Wall,Door,Caulking,Light Grey, Door Frame,Loc:1,Exterior <u>ND</u>
S	0002	B	Wall,Door,Caulking,Light Grey, Door Frame,Loc:1,Exterior <u>ND</u>
S	0002	C	Wall,Door,Caulking,Light Grey, Door Frame,Loc:1,Exterior <u>ND</u>
S	0003	A	Piping,Hot Water Heating,Parging Cement,Loc:2,Boiler Room <u>CH 50-75</u>
S	0003	B	Piping,Hot Water Heating,Parging Cement,Loc:24,Classroom <u>(WA)</u>

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0003	C	Piping, Hot Water Heating, Parging Cement, Loc:44, Hallway (NA)
S	0004	A	Ceiling, Plaster, Base Coat, Loc:2, Boiler Room a) ND b) ND
S	0004	B	Ceiling, Plaster, Base Coat, Loc:2, Boiler Room a) ND b) ND
S	0004	C	Ceiling, Plaster, Base Coat, Loc:2, Boiler Room a) ND b) ND
S	0005	A	Wall, Interior, Plaster, Loc:3, Music Room a) ND b) ND
S	0005	B	Wall, Interior, Plaster, Loc:20, Girls Washroom a) ND b) ND
S	0005	C	Wall, Interior, Plaster, Loc:51, Classroom a) ND b) ND c) ND
S	0005	D	Wall, Interior, Plaster, Loc:55, Classroom a) ND b) ND
S	0005	E	Wall, Interior, Plaster, Loc:60, Boys Washroom a) ND b) ND
S	0005	F	Wall, Interior, Plaster, Loc:65, Classroom a) ND b) ND
S	0005	G	Wall, Interior, Plaster, Loc:28, Exit Stage Right a) ND b) ND
S	0006	A	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:3, Music Room a) ND b) CH0.5-5
S	0006	B	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:8, Janitor Room a) ND b) (NA)
S	0006	C	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Light Brown Flecks, Loc:17, Washroom a) ND b) (NA)
S	0007	A	Wall, Exterior, Drywall And Joint Compound, Loc:3, Music Room CH0.5-5
S	0007	B	Wall, Exterior, Drywall And Joint Compound, Loc:21, Library a) CH0.5-5 b) ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0007	C	Wall, Exterior, Drywall And Joint Compound, Loc:34, Wood Shop CH 0.5-5
S	0007	D	Wall, Interior, Drywall And Joint Compound, Loc:30, Gym Storage a) CH 0.5-5 b) CH 0.5-5
S	0007	E	Wall, Interior, Drywall And Joint Compound, Loc:48, Science Lab CH 0.5-5
S	0007	F	Wall, Interior, Drywall And Joint Compound, Loc:53, Classroom CH 0.5-5
S	0007	G	Wall, Interior, Drywall And Joint Compound, Loc:64, Breakfast Room CH 0.5-5
S	0008	A	Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:4, Classroom a) ND b) CH 0.5-5
S	0008	B	Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:14, Secretary Office a) ND b) (NA)
S	0008	C	Floor, Vinyl Floor Tile And Mastic, 12" Light Green With Green Streaks, Loc:24, Classroom a) ND b) (NA)
S	0009	A	Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:5, Classroom a) ND b) CH 0.5-5
S	0009	B	Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:23, Classroom a) ND b) (NA)
S	0009	C	Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Beige Streaks, Loc:52, Classroom a) ND b) (NA)



Pinchin Ltd. Asbestos Laboratory *Certificate of Analysis*

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Analyst(s): R. Janssen

Date Received: March 8, 2024 **Samples Submitted:** 34
Date Analyzed: March 15, 2024 **Phases Analyzed:** 33

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples,' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		
		ASBESTOS		OTHER
S0010A Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:6, Office	a) Homogeneous, blue, consolidated, vinyl floor tile.	Chrysotile	0.5-5%	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected		Tar and other Non-Fibrous Material > 75%
S0010B Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:22, Classroom	a) Homogeneous, blue, consolidated, vinyl floor tile.			Not Analyzed
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	0.5-5%	Tar and other Non-Fibrous Material > 75%
Comments:	Analysis of phase a) was stopped due to a previous positive result.			
S0010C Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:53, Classroom				Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.			
S0011A Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:7, Washroom	Homogeneous, light grey, soft, parging cement.	Chrysotile	50-75%	Non-Fibrous Material 25-50%
S0011B Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:17, Washroom				Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.			



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)			
		ASBESTOS		OTHER	
S0011C Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:47, Hallway				Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.				
S0012A Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc:8, Janitor Room	2 Phases: a) Homogeneous, brown, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile	0.5-5%	Non-Fibrous Material	> 75%
		Chrysotile	0.5-5%	Tar and other Non-Fibrous Material	> 75%
S0012B Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc:9, Caretaker Office				Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.				
S0012C Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc:15, Vice Principal Office				Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.				
S0013A Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc:10, Kitchen	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected		Non-Fibrous Material	> 75%
		Chrysotile	0.5-5%	Tar and other Non-Fibrous Material	> 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0013B Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc:11, Staff Room	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0013C Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc:39, Band Room	2 Phases: a) Homogeneous, grey, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0014 Sink, Mastic, Gold, Loc:10, Kitchen	Homogeneous, black, tar material.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0015A Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc:12, Men's Washroom	2 Phases: a) Homogeneous, dark grey, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected None Detected	Non-Fibrous Material > 75% Tar and other Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0015B Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc:13, Women's Washroom	a) Homogeneous, dark grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0015C Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc:13, Women's Washroom	a) Homogeneous, dark grey, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0016A Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc:21, Library	a) Homogeneous, beige, consolidated, vinyl floor tile.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0016B Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc:48, Science Lab			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)		
		ASBESTOS	OTHER	
S0016C Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc:50, Science Lab Entry			Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.			
S0017A Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc:25, Classroom	2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile Chrysotile	0.5-5% 0.5-5% Non-Fibrous Material Tar and other Non-Fibrous Material	> 75% > 75%
S0017B Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc:25, Classroom			Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.			
S0017C Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc:25, Classroom			Not Analyzed	
Comments:	Analysis was stopped due to a previous positive result.			
S0018A Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc:27, Stage	2 Phases: a) Homogeneous, tan, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected None Detected	Non-Fibrous Material Tar and other Non-Fibrous Material	> 75% > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0018B Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc:35, Lumber Storage	a) Homogeneous, tan, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
	c) Homogeneous, white, levelling compound.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
S0018C Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc:27, Stage	a) Homogeneous, tan, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
S0019A Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage	Homogeneous, pale green, soft, caulking material.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
S0019B Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S0019C Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309831
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0020A Wall, Door, Caulking, Butyl Seal, Loc:37, Wood Shop Entry	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
S0020B Wall, Door, Caulking, Butyl Seal, Loc:61, Side Room	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
S0020C Wall, Door, Caulking, Butyl Seal, Loc:32, Gym Office	Homogeneous, black, soft, caulking material.	None Detected	Non-Fibrous Material > 75%
S0021A Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:39, Band Room	2 Phases: a) Homogeneous, light grey, consolidated, vinyl floor tile.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0021B Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:43, Storage			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S0021C Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:39, Band Room			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		

Reviewed by:

Reporting Analyst:

Jason Stapleton
2024.03.15 16:20:55-03'00'

Pinchin Ltd.
2024.03.15 16:20:07-03'00' *Reid Janssen*

Analyzed By: RS
 Reviewed By: JS
 Report Sent By: _____

**Pinchin Ltd. - Asbestos Laboratory
 Internal Asbestos Bulk Sample Chain of Custody**

Client Name:	HRCE	Project Address:	88 Belle Vista Drive, Dartmouth, NS
Portfolio/Building No:	Ellenvale Junior High School	Pinchin File:	336128.009
Submitted by:	J Munro	Email:	jmunro@pinchin.com
CC Results to:	A Thebeau	CC Email:	athebeau@pinchin.com
Date Submitted:	March 08 2024	Required by:	Month Day 2020
# of Samples:	34	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory, Years ONLY):	1967		
Do NOT Stop on Positive (Sample Numbers):	S0005A-G; S0007A-G		
Pinchin Group Company (Mandatory Field):	Pinchin		
HMIS2 Building Reference #:	131201/20242551671265		

To be Completed by Lab Personnel Only:

Lab Reference #:	6309831	Time:	24 hour clock
Received by:	J. Stapleton	Date:	March 8 2024
Name(s) of Analyst(s):	R. Jansen		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0010	A	Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:6, Office a) CH0.5-5 b) NO
S	0010	B	Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:22, Classroom a) (NA) b) CH0.5-5
S	0010	C	Floor, Vinyl Floor Tile And Mastic, 12" Light Blue With White Streaks, Loc:53, Classroom (NA)
S	0011	A	Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:7, Washroom CH 50-75
S	0011	B	Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:17, Washroom (NA)
S	0011	C	Piping, Domestic Water (Hot And Cold), Parging Cement, Loc:47, Hallway (NA)
S	0012	A	Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc:8, Janitor Room a) CH0.5-5 b) CH0.5-5
S	0012	B	Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc:9, Caretaker Office (NA)

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0012	C	Floor, Vinyl Floor Tile And Mastic, 12" Pale Brown With Beige Streaks, Loc: 15, Vice Principal Office (NA)
S	0013	A	Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc: 10, Kitchen a) NO b) CHO.S-S
S	0013	B	Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc: 11, Staff Room a) NO b) (NA)
S	0013	C	Floor, Vinyl Floor Tile And Mastic, 12" Pale Blue With Dark And Light Flecks, Loc: 39, Band Room a) NO b) (NA)
S	0014		Sink, Mastic, Gold, Loc: 10, Kitchen CHO.S-S
S	0015	A	Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc: 12, Men's Washroom a) NO b) NO
S	0015	B	Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc: 13, Women's Washroom a) NO b) CHO.S-S
S	0015	C	Floor, Vinyl Floor Tile And Mastic, 12" Dark Blue With Dark Flecks, Loc: 13, Women's Washroom a) NO b) (NA)
S	0016	A	Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc: 21, Library a) CHO.S-S b) CHO.S-S
S	0016	B	Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc: 48, Science Lab (NA)
S	0016	C	Floor, Vinyl Floor Tile And Mastic, 12" Pale Green With Light Streaks, Loc: 50, Science Lab Entry (NA)
S	0017	A	Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc: 25, Classroom a) CHO.S-S b) CHO.S-S
S	0017	B	Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc: 25, Classroom (NA)
S	0017	C	Floor, Vinyl Floor Tile And Mastic, 12" Cream With Brown Streaks, Loc: 25, Classroom (NA)
S	0018	A	Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc: 27, Stage a) NO b) NO
S	0018	B	Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc: 35, Lumber Storage a) NO b) NO c) CHO.S-S

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0018	C	Floor, Vinyl Floor Tile And Mastic, 12" Tan, Loc:27, Stage <i>a)NO b)NO</i>
S	0019	A	Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage <i>C110.S-S</i>
S	0019	B	Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage <i>(NA)</i>
S	0019	C	Wall, Door, Caulking, Light Grey, Door Frame, Loc:35, Lumber Storage <i>(NA)</i>
S	0020	A	Wall, Door, Caulking, Butyl Seal, Loc:37, Wood Shop Entry <i>NO</i>
S	0020	B	Wall, Door, Caulking, Butyl Seal, Loc:61, Side Room <i>NO</i>
S	0020	C	Wall, Door, Caulking, Butyl Seal, Loc:32, Gym Office <i>NO</i>
S	0021	A	Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:39, Band Room <i>a)CHO.S-S b)CHO.S-S</i>
S	0021	B	Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:43, Storage <i>(NA)</i>
S	0021	C	Floor, Vinyl Floor Tile And Mastic, 12" Light Grey With White Streaks, Loc:39, Band Room <i>(NA)</i>



Pinchin Ltd. Asbestos Laboratory *Certificate of Analysis*

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Analyst(s): Y. Yan

Date Received:	March 8, 2024	Samples Submitted:	36
Date Analyzed:	March 15, 2024	Phases Analyzed:	51

The Pinchin Ltd. Dartmouth asbestos laboratory is accredited by the National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program (NVLAP Lab Code 201032-0) for the 'EPA – 40 CFR Appendix E to Subpart E of Part 763, Interim Method of the Determination of Asbestos in Bulk Insulation Samples, ' and the 'EPA 600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials'; and meets all requirements of ISO/IEC 17025:2017. The Pinchin asbestos laboratory uses the aforementioned methods of analysis.

Bulk samples are checked visually and scanned under a stereomicroscope. Slides are prepared and observed under a Polarized Light Microscope (PLM) at magnifications of 40X, 100X or 400X as appropriate. Asbestos fibres are identified by a combination of morphology, colour, refractive index, extinction, sign of elongation, birefringence and dispersion staining colours. A visual estimate is made of the percentage of asbestos present. A reported concentration of less than (<) the regulatory threshold indicates the presence of confirmed asbestos in trace quantities, limited to only a few fibres or fibre bundles in an entire sample. This method complies with provincial regulatory requirements where applicable. Multiple phases within a sample are analyzed and reported separately.

All bulk samples submitted to this laboratory for asbestos analysis are retained for a minimum of three months. Samples may be retrieved, upon request, for re-examination at any time during that period.

This report relates only to the items tested.

This report relates only to the items tested and is valid only when signed with a protected, authorized, electronic signature. This report may not be reproduced, except in full, without the written approval of Pinchin Ltd. The client may not use this report to claim product endorsement by NVLAP or any agency of the U.S. Government. Internal verification studies, quality assurance / control data and laboratory documentation on measurement uncertainty are available upon request.



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0022A Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage	a) Homogeneous, light brown, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
Comments:	Phase b) of this sample is small in size. For more reliable results, a larger sample is required.		
S0022B Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage	a) Homogeneous, light brown, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
Comments:	Phase b) of this sample is small in size. For more reliable results, a larger sample is required.		
S0022C Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage	a) Homogeneous, light brown, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
Comments:	Phase b) of this sample is small in size. For more reliable results, a larger sample is required.		
S0023A Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:48, Science Lab	a) Homogeneous, purple, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0023B Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:49, Storage	2 Phases: a) Homogeneous, purple, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
S0023C Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:48, Science Lab	2 Phases: a) Homogeneous, purple, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
S0024A Duct, Mastic, Green, Loc:59, Classroom	Homogeneous, green, mastic material.	None Detected	Non-Fibrous Material > 75%
S0024B Duct, Mastic, Green, Loc:59, Classroom	2 Phases: a) Homogeneous, dark green, caulking material.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, green, mastic material.	None Detected	Non-Fibrous Material > 75%
S0024C Duct, Mastic, Green, Loc:59, Classroom	Homogeneous, green, mastic material.	None Detected	Non-Fibrous Material > 75%
S0025A Wall, Window Liner, Caulking, Grey, Loc:59, Classroom	Homogeneous, grey, soft, sticky, caulking material.	None Detected	Non-Fibrous Material > 75%
S0025B Wall, Window Liner, Caulking, Grey, Loc:47, Hallway	Homogeneous, grey, soft, sticky, caulking material.	None Detected	Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
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Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0025C Wall, Window Liner, Caulking, Grey, Loc:59, Classroom	Homogeneous, grey, soft, sticky, caulking material.	None Detected	Non-Fibrous Material > 75%
S0026A Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Brown Flecks, Loc:63, Janitor Room	2 Phases: a) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0026B Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Brown Flecks, Loc:63, Janitor Room	3 Phases: a) Homogeneous, off- white, mastic on the surface of vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase c) was stopped due to a previous positive result. Levelling compound is present but there was insufficient material submitted to analyze.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0026C Floor, Vinyl Floor Tile And Mastic, 12" Light Brown With Brown Flecks, Loc:63, Janitor Room	a) Homogeneous, off-white, mastic on the surface of vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase c) was stopped due to a previous positive result.		
S0027A Floor, Vinyl Floor Tile And Mastic, 12" Pink With White Streaks, Loc:64, Breakfast Room	a) Homogeneous, pink, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0027B Floor, Vinyl Floor Tile And Mastic, 12" Pink With White Streaks, Loc:69, Classroom	a) Homogeneous, pink, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.		Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0027C Floor, Vinyl Floor Tile And Mastic, 12" Pink With White Streaks, Loc:64, Breakfast Room	2 Phases: a) Homogeneous, pink, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected	Non-Fibrous Material > 75% Not Analyzed
Comments:	Analysis of phase b) was stopped due to a previous positive result.		
S0028A Wall, Door, Caulking, Light Grey, Between Brick And Door Frame, Loc:47, Hallway	Homogeneous, light grey, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
S0028B Wall, Door, Caulking, Light Grey, Between Brick And Door Frame, Loc:47, Hallway	Homogeneous, light grey, caulking material.	None Detected	Man-Made Vitreous Fibres 0.5-5% Non-Fibrous Material > 75%
S0028C Wall, Door, Caulking, Light Grey, Between Brick And Door Frame, Loc:47, Hallway	Homogeneous, light grey, caulking material.	None Detected	Non-Fibrous Material > 75%
S0029A Floor, Vinyl Sheet Flooring, Beige Marble Battleship Flooring, Loc:47, Hallway	Homogeneous, brown, woven fabric material on the back of vinyl sheet flooring.	None Detected	Cellulose > 75% Non-Fibrous Material 5-10%
S0029B Floor, Vinyl Sheet Flooring, Beige Marble Battleship Flooring, Loc:45, Hallway and Side Vestibule	Homogeneous, beige, consolidated material on the back of vinyl sheet flooring.	None Detected	Cellulose 5-10% Non-Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0029C Floor, Vinyl Sheet Flooring, Beige Marble Battleship Flooring, Loc:45, Hallway and Side Vestibule	3 Phases: a) Homogeneous, brown, woven fabric material on the back of vinyl sheet flooring.	None Detected	Cellulose > 75% Non-Fibrous Material 5-10%
	b) Homogeneous, beige, adhesive material on the back of vinyl sheet flooring.	None Detected	Non-Fibrous Material > 75%
	c) Homogeneous, pale beige, levelling compound.	None Detected	Non-Fibrous Material > 75%
S0030A Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc:70, Classroom	a) Homogeneous, beige, consolidated, vinyl floor tile.	Chrysotile 0.5-5%	Non-Fibrous Material > 75%
	b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	Chrysotile 0.5-5%	Tar and other Non-Fibrous Material > 75%
S0030B Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc:70, Classroom			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		
S0030C Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc:70, Classroom			Not Analyzed
Comments:	Analysis was stopped due to a previous positive result.		



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenvale Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0031A Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc:71, Classroom Entry	Homogeneous, beige, woven fabric material on the back of vinyl sheet flooring.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
S0031B Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc:79, Hallway	Homogeneous, beige, woven fabric material on the back of vinyl sheet flooring.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
Comments:	Wood pieces are present on the surface of this sample.		
S0031C Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc:81, Hallway	Homogeneous, beige, woven fabric material on the back of vinyl sheet flooring.	None Detected	Cellulose > 75% Non-Fibrous Material 0.5-5%
Comments:	Wood pieces are present on the surface of this sample.		
S0032A Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc:75, Office	2 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile. b) Homogeneous, black, soft, sticky material on the back of vinyl floor tile.	None Detected None Detected	Non-Fibrous Material > 75% Tar and other Non- Fibrous Material > 75%
S0032B Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc:75, Office	2 Phases: a) Homogeneous, pale beige, consolidated, vinyl floor tile. b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	None Detected None Detected	Non-Fibrous Material > 75% Tar and other Non- Fibrous Material > 75%



Pinchin Ltd. Asbestos Laboratory Certificate of Analysis

Project Name: HRCE, Ellenville Junior High School, 88 Belle Vista Drive, Dartmouth, NS
Project No.: 0336128.009
Prepared For: J. Munro / A. Thebeau

Lab Reference No.: b309832
Date Analyzed: March 15, 2024

BULK SAMPLE ANALYSIS

SAMPLE IDENTIFICATION	SAMPLE DESCRIPTION	% COMPOSITION (VISUAL ESTIMATE)	
		ASBESTOS	OTHER
S0032C Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc:75, Office	a) Homogeneous, pale beige, consolidated, vinyl floor tile.	None Detected	Non-Fibrous Material > 75%
	b) Non-homogeneous, black and yellow, soft, sticky material on the back of vinyl floor tile.	None Detected	Tar and other Non-Fibrous Material > 75%
S0033A Wall, Caulking, Grey, Between Wood And Cement Board, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Wollastonite 0.5-5% Other Non-Fibrous > 75%
S0033B Wall, Caulking, Grey, Between Wood And Cement Board, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Wollastonite 0.5-5% Other Non-Fibrous > 75%
S0033C Wall, Caulking, Grey, Between Wood And Cement Board, Loc:1, Exterior	Homogeneous, grey, hard, caulking material.	None Detected	Talc 0.5-5% Wollastonite 0.5-5% Other Non-Fibrous > 75%

Reviewed by:

Jason Stapleton
2024.03.15 17:27:49-03'00'

Reporting Analyst:

Yewen Yan
2024.03.15 17:27:18-03'00'

Analyzed By: yy
 Reviewed By: js
 Report Sent By: _____

Pinchin Ltd. - Asbestos Laboratory
Internal Asbestos Bulk Sample Chain of Custody

Client Name:	HRCE	Project Address:	88 Belle Vista Drive, Dartmouth, NS
Portfolio/Building No:	Ellenvale Junior High School	Pinchin File:	336128.009
Submitted by:	J Munro	Email:	jmunro@pinchin.com
CC Results to:	A Thebeau	CC Email:	athebeau@pinchin.com
Date Submitted:	March 08 2024	Required by:	Month Day 2020
# of Samples:	36	Priority:	5 Day Turnaround
Year of Building Construction (Mandatory, Years ONLY):	1967		
Do NOT Stop on Positive (Sample Numbers):	S0005A-G; S0007A-G		
Pinchin Group Company (Mandatory Field):	Pinchin		
HMIS2 Building Reference #:	131201/20242551671265		

To be Completed by Lab Personnel Only:

Lab Reference #:	<u>6309832</u>	Time:	24 hour clock
Received by:	J. Stapleton	Date:	March 8 2024
Name(s) of Analyst(s):	<u>y./an</u>		

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0022	A	Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage a) ND b) ND
S	0022	B	Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage a) ND b) ND
S	0022	C	Floor, Vinyl Floor Tile And Mastic, 12" Light Purple With White Streaks, Loc:30, Gym Storage a) ND b) ND
S	0023	A	Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:48, Science Lab a) ND b) ND
S	0023	B	Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:49, Storage a) ND b) ND
S	0023	C	Floor, Vinyl Floor Tile And Mastic, 12" Purple With Light And Dark Flecks, Loc:48, Science Lab a) ND b) ND
S	0024	A	Duct, Mastic, Green, Loc:59, Classroom ND
S	0024	B	Duct, Mastic, Green, Loc:59, Classroom a) ND b) ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0024	C	Duct,Mastic,Green,Loc:59,Classroom ND
S	0025	A	Wall,Window Liner,Caulking,Grey,Loc:59,Classroom ND
S	0025	B	Wall,Window Liner,Caulking,Grey,Loc:47,Hallway ND
S	0025	C	Wall,Window Liner,Caulking,Grey,Loc:59,Classroom ND
S	0026	A	Floor,Vinyl Floor Tile And Mastic,12" Light Brown With Brown Flecks,Loc:63,Janitor Room a) ND b) CH055
S	0026	B	Floor,Vinyl Floor Tile And Mastic,12" Light Brown With Brown Flecks,Loc:63,Janitor Room a) ND b) ND c) (NA)
S	0026	C	Floor,Vinyl Floor Tile And Mastic,12" Light Brown With Brown Flecks,Loc:63,Janitor Room a) ND b) ND c) (NA)
S	0027	A	Floor,Vinyl Floor Tile And Mastic,12" Pink With White Streaks,Loc:64,Breakfast Room a) ND b) CH055
S	0027	B	Floor,Vinyl Floor Tile And Mastic,12" Pink With White Streaks,Loc:69,Classroom a) ND b) (NA)
S	0027	C	Floor,Vinyl Floor Tile And Mastic,12" Pink With White Streaks,Loc:64,Breakfast Room a) ND b) (NA)
S	0028	A	Wall,Door,Caulking,Light Grey, Between Brick And Door Frame,Loc:47,Hallway ND
S	0028	B	Wall,Door,Caulking,Light Grey, Between Brick And Door Frame,Loc:47,Hallway ND
S	0028	C	Wall,Door,Caulking,Light Grey, Between Brick And Door Frame,Loc:47,Hallway ND
S	0029	A	Floor,Vinyl Sheet Flooring,Beige Marble Battleship Flooring,Loc:47,Hallway ND
S	0029	B	Floor,Vinyl Sheet Flooring,Beige Marble Battleship Flooring,Loc:45,Hallway and Side Vestibule ND
S	0029	C	Floor,Vinyl Sheet Flooring,Beige Marble Battleship Flooring,Loc:45,Hallway and Side Vestibule a) ND b) ND c) ND

Sample Prefix	Sample No.	Sample Suffix	Sample Description/Location (Mandatory)
S	0030	A	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc: 70, Classroom a) CH: 0.55% b) CH: 0.55%
S	0030	B	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc: 70, Classroom (NA)
S	0030	C	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Dark Brown Streaks, Loc: 70, Classroom (NA)
S	0031	A	Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc: 71, Classroom Entry (ND)
S	0031	B	Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc: 79, Hallway (ND)
S	0031	C	Floor, Vinyl Sheet Flooring, Pink And Brown Marble Battleship Flooring, Loc: 81, Hallway (ND)
S	0032	A	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc: 75, Office a) ND b) ND
S	0032	B	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc: 75, Office a) ND b) ND
S	0032	C	Floor, Vinyl Floor Tile And Mastic, 12" Beige With Brown And White Flecks, Loc: 75, Office a) ND b) ND
S	0033	A	Wall, Caulking, Grey, Between Wood And Cement Board, Loc: 1, Exterior ND
S	0033	B	Wall, Caulking, Grey, Between Wood And Cement Board, Loc: 1, Exterior ND
S	0033	C	Wall, Caulking, Grey, Between Wood And Cement Board, Loc: 1, Exterior ND

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APPENDIX II-B
Lead Analytical Certificates



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 Or	552403617
CustomerID:	55PINC50
CustomerPO:	336128.009
ProjectID:	

Attn: **Jackson Munro**
Pinchin Environmental
42 Dorey Avenue
Dartmouth, Nova Scotia, NS B3B 0B1

Phone: (902) 461-9999
 Fax: (902) 461-9932
 Received: 3/11/2024 09:55 AM
 Collected: 3/7/2024

Project: **336128.009**

Test Report: Lead in Paint Chips by Flame AAS (SW 846 3050B/7000B)*

Client SampleDescription	Collected	Analyzed	Weight	RDL	Lead Concentration
L0001 552403617-0001	3/5/2024 Site: Loc. 1	3/12/2024	0.2500 g	80 ppm	240 ppm
L0002 552403617-0002	3/5/2024 Site: Loc. 1	3/12/2024	0.2485 g	80 ppm	470 ppm
L0003 552403617-0003	3/5/2024 Site: Loc. 2	3/12/2024	0.2497 g	80 ppm	120 ppm
L0004 552403617-0004	3/5/2024 Site: Loc. 2	3/12/2024	0.2480 g	81 ppm	<81 ppm
L0005 552403617-0005	3/5/2024 Site: Loc. 5	3/12/2024	0.2507 g	80 ppm	<80 ppm
L0006 552403617-0006	3/5/2024 Site: Loc. 10	3/12/2024	0.2478 g	81 ppm	830 ppm
L0007 552403617-0007	3/5/2024 Site: Loc. 16	3/12/2024	0.2510 g	80 ppm	450 ppm
L0008 552403617-0008	3/5/2024 Site: Loc. 27	3/12/2024	0.2490 g	80 ppm	<80 ppm
L0009 552403617-0009	3/6/2024 Site: Loc. 37	3/12/2024	0.2497 g	80 ppm	92 ppm
L0010 552403617-0010	3/6/2024 Site: Loc. 29	3/12/2024	0.2508 g	80 ppm	670 ppm
L0011 552403617-0011	3/7/2024 Site: Loc. 47	3/12/2024	0.2496 g	80 ppm	<80 ppm

Rowena Fanto, Lead Supervisor
or other approved signatory

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.

* Analysis following Lead in Paint by EMSL SOP/Determination of Environmental Lead by FLAA. Reporting limit is 0.008% wt based on the minimum sample weight per our SOP. "<" (less than) result signifies the analyte was not detected at or above the reporting limit. Measurement of uncertainty is available upon request. Definitions of modifications are available upon request.

Samples analyzed by EMSL Canada Inc. Mississauga, ON AIHA LAP, LLC-ELLAP Accredited #196142

Initial report from 03/16/2024 11:02:27

APPENDIX II-C
PCB Analytical Certificates



CLIENT NAME: PINCHIN LTD.
42 Dorey Avenue
Dartmouth, NS B3B0B1
(902) 461-9999

ATTENTION TO: Jackson Munro
PROJECT: 336128.009

AGAT WORK ORDER: 24X127899

TRACE ORGANICS REVIEWED BY: Jason Coughtrey, Operation Manager

DATE REPORTED: Mar 19, 2024

PAGES (INCLUDING COVER): 5

VERSION*: 1

Should you require any information regarding this analysis please contact your client services representative at (902) 468-8718

*Notes

Disclaimer:

- All work conducted herein has been done using accepted standard protocols, and generally accepted practices and methods. AGAT test methods may incorporate modifications from the specified reference methods to improve performance.
- All samples will be disposed of within 30 days after receipt unless a Long Term Storage Agreement is signed and returned. Some specialty analysis may be exempt, please contact your Client Project Manager for details.
- AGAT's liability in connection with any delay, performance or non-performance of these services is only to the Client and does not extend to any other third party. Unless expressly agreed otherwise in writing, AGAT's liability is limited to the actual cost of the specific analysis or analyses included in the services.
- This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
- The test results reported herewith relate only to the samples as received by the laboratory.
- Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to, warranties of merchantability, fitness for a particular purpose, or non-infringement. AGAT assumes no responsibility for any errors or omissions in the guidelines contained in this document.
- All reportable information as specified by ISO/IEC 17025:2017 is available from AGAT Laboratories upon request.
- For environmental samples in the Province of Quebec: The analysis is performed on and results apply to samples as received. A temperature above 6°C upon receipt, as indicated in the Sample Reception Notification (SRN), could indicate the integrity of the samples has been compromised if the delay between sampling and submission to the laboratory could not be minimized.



Certificate of Analysis

AGAT WORK ORDER: 24X127899

PROJECT: 336128.009

11 Morris Drive, Unit 122
Dartmouth, Nova Scotia
CANADA B3B 1M2
TEL (902)468-8718
FAX (902)468-8924
<http://www.agatlabs.com>

CLIENT NAME: PINCHIN LTD.

ATTENTION TO: Jackson Munro

SAMPLING SITE:

SAMPLED BY:

Total Polychlorinated Biphenyls in Solids

DATE RECEIVED: 2024-03-08

DATE REPORTED: 2024-03-19

P0001, GREY

SAMPLE DESCRIPTION: CAULKING

SAMPLE TYPE: Solid

DATE SAMPLED: 2024-03-05

Parameter	Unit	G / S	RDL	5711407
Total Polychlorinated Biphenyls	mg/kg		0.5	<0.5
Surrogate	Unit	Acceptable Limits		
Decachlorobiphenyl	%	60-140		63

Comments: RDL - Reported Detection Limit; G / S - Guideline / Standard

Analysis performed at AGAT Halifax (unless marked by *)

Certified By:

Quality Assurance

 CLIENT NAME: PINCHIN LTD.
 PROJECT: 336128.009
 SAMPLING SITE:

 AGAT WORK ORDER: 24X127899
 ATTENTION TO: Jackson Munro
 SAMPLED BY:

Trace Organics Analysis															
RPT Date: Mar 19, 2024			DUPLICATE			Method Blank	REFERENCE MATERIAL			METHOD BLANK SPIKE			MATRIX SPIKE		
PARAMETER	Batch	Sample Id	Dup #1	Dup #2	RPD		Measured Value	Acceptable Limits		Recovery	Acceptable Limits		Recovery	Acceptable Limits	
								Lower	Upper		Lower	Upper		Lower	Upper

Total Polychlorinated Biphenyls in Solids															
Total Polychlorinated Biphenyls	1		<0.5	<0.5	NA	< 0.5	118%	60%	140%	70%	60%	140%	66%	60%	140%

Comments: If Matrix spike value is NA, the spiked analyte concentration was lower than that of the matrix contribution.
 If RPD value is NA, the results of the duplicates are less than 5x the RDL and the RPD will not be calculated.

Certified By:





Method Summary

CLIENT NAME: PINCHIN LTD.

AGAT WORK ORDER: 24X127899

PROJECT: 336128.009

ATTENTION TO: Jackson Munro

SAMPLING SITE:

SAMPLED BY:

PARAMETER	AGAT S.O.P	LITERATURE REFERENCE	ANALYTICAL TECHNIQUE
Trace Organics Analysis			
Total Polychlorinated Biphenyls	ORG-120-5106	EPA SW846/8081/8080	GC/ECD
Decachlorobiphenyl	ORG-120-5106	EAP SW846 3510C/8080/8010	GC/ECD



AGAT Laboratories

Unit 122 - 11 Morris Dr.
Dartmouth, Nova Scotia
B3B 1M2
http://webearth.agatlabs.com

Phone: 902-468-8718
Fax: 902-468-8924
www.agatlabs.com

Laboratory use Only

Arrival Condition: Good Poor (complete 'notes')
Arrival Temperature: 17.5 AGAT Job Number: 24X127899
Notes: _____

Drinking Water Sample (y/n): _____ Reg. No. _____
Waterworks Number: _____

Report To: Company: : Pinchin Ltd. Contact: Jackson Munro Address: 42 Dorey Ave, Dartmouth, NS B3B 0B1 Phone: 902.461.9999 FAX: 902.461.9932 PO#: _____ AGAT Quotation: 514103 Client Project #: 336128.009			Report Information 1. Name: Jackson Munro Email: <u>munro@pinchin.com</u> 2. Name: Allain Thebeau Email: <u>athebeau@pinchin.com</u>			Report Format <input type="checkbox"/> Single PDF sample per page <input checked="" type="checkbox"/> Multiple PDF samples per page <input type="checkbox"/> Excel Format Included		Turnaround Time (TAT) Business Days Regular TAT: <input checked="" type="checkbox"/> 5 - 7 days Rush TAT: <input type="checkbox"/> 1 day <input type="checkbox"/> 2 days <input type="checkbox"/> 3 - 4 days Date Required: _____ Time Required: _____																																																												
Invoice to: Same (Y/N) - Circle Company: : Pinchin Ltd. Contact: Allain Thebeau Address: 42 Dorey Ave, Dartmouth, NS B3B 0B1 Phone: 902.461.9999 Fax: 902.461.9932 PO#/Credit Card #: _____			Regulatory Requirements (Check): <input type="checkbox"/> List Guidelines on Report <input type="checkbox"/> Do Not List Guidelines on Report <input type="checkbox"/> PIRI Site Info (check all that apply): <input type="checkbox"/> Teir 1 <input type="checkbox"/> Res. <input type="checkbox"/> Pot. <input type="checkbox"/> Coarse <input type="checkbox"/> Teir 2 <input type="checkbox"/> Com <input type="checkbox"/> N/Pot. <input type="checkbox"/> Fine <input type="checkbox"/> Gas <input type="checkbox"/> Fuel <input type="checkbox"/> Lube <input type="checkbox"/> CCME <input type="checkbox"/> CDWQ <input type="checkbox"/> Ind <input type="checkbox"/> NSDFOSP <input type="checkbox"/> Com <input type="checkbox"/> HRM 101 <input type="checkbox"/> Res/P Storm Water <input type="checkbox"/> Ag <input type="checkbox"/> HRM 101 <input type="checkbox"/> FWAL Waste Water <input type="checkbox"/> Sediment <input type="checkbox"/> Other: _____			<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Field Filtered/ Preserved</th> <th>Standard Water Analysis +MS</th> <th>Metals (circle Total, Diss or Available)</th> <th>Mercury Leachate CGSB</th> <th>BOD</th> <th>pH</th> <th>TSS</th> <th>TKN</th> <th>Anions</th> <th>Total Phosphorus</th> <th>Phenols</th> <th>TPH/BTEX (PIR) Teir 1</th> <th>TPH/BTEX-Fractionation Teir 2</th> <th>VOC</th> <th>THM</th> <th>Mercury in paint</th> <th>Lead in Paint</th> <th>PCB</th> <th>Hazardous (Y/N)</th> <th>Lab Sample #</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td></td> <td></td> </tr> </tbody> </table>			Field Filtered/ Preserved	Standard Water Analysis +MS	Metals (circle Total, Diss or Available)	Mercury Leachate CGSB	BOD	pH	TSS	TKN	Anions	Total Phosphorus	Phenols	TPH/BTEX (PIR) Teir 1	TPH/BTEX-Fractionation Teir 2	VOC	THM	Mercury in paint	Lead in Paint	PCB	Hazardous (Y/N)	Lab Sample #																																						X		
Field Filtered/ Preserved	Standard Water Analysis +MS	Metals (circle Total, Diss or Available)	Mercury Leachate CGSB	BOD	pH	TSS	TKN	Anions	Total Phosphorus	Phenols	TPH/BTEX (PIR) Teir 1	TPH/BTEX-Fractionation Teir 2	VOC	THM	Mercury in paint	Lead in Paint	PCB	Hazardous (Y/N)	Lab Sample #																																																	
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SAMPLE IDENTIFICATION	DATE / TIME SAMPLED	SAMPLE MATRIX	# OF CONTAINERS	COMMENTS - Site/Sample Info, Sample Containment																																																																
P0001, Grey caulking <u>2-81g</u>	2024-03-05	solid	1 bag																																																																	
Sample Relinquished By (print name & sign)					Date/Time	Samples Received By (print name and sign)					Date/Time	Special Instructions																																																								
Jackson Munro					05-Mar-24																																																															
Sample Relinquished By (print name & sign)					Date/Time						Samples Received By (print name and sign)					Date/Time																																																				
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APPENDIX III
Methodology



1.0 GENERAL

An investigation was conducted to identify the type of Hazardous Building Materials incorporated in the structure and its finishes.

Information regarding the location and condition of hazardous building materials encountered and visually estimated quantities were recorded. The locations of any samples collected were recorded on small-scale plans. As-built drawings and previous reports were referenced where provided.

Sample collection was conducted in accordance with our Standard Operating Procedures.

1.1 Asbestos

The investigation for asbestos included friable and non-friable asbestos-containing materials (ACM). A friable material is a material that when dry can be crumbled, pulverized or powdered by hand pressure, or a material that has already become crushed, pulverized, or powdered.

A separate set of samples was collected of each type of homogenous material suspected to contain asbestos. A homogenous material is defined by the US EPA as material that is uniform in texture and appearance, was installed at one time, and is unlikely to consist of more than one type or formulation of material. The homogeneous materials were determined by visual examination and available information on the phases of construction and prior renovations.

Samples were collected at a rate that is in compliance with the requirements of local regulations and guidelines. The sampling strategy was also based on known ban dates and phase out dates of the use of asbestos; sampling of certain building materials is not conducted after specific construction dates. In addition, to be conservative, several years past these dates are added to account for some uncertainty in the exact start / finish date of construction and associated usage of ACM. In some cases, manufactured products such as asbestos cement pipe were visually identified without sample confirmation.

The asbestos analysis of select materials was completed using a stop-positive approach. Only one result meeting the regulated criteria was required to determine that a material is asbestos-containing, but all samples must be analyzed to conclusively determine that a material is non-asbestos. The laboratory stopped analyzing samples from a homogeneous material once a result equal to or greater than the regulated criteria is detected in any of the samples of that material. All samples of a homogeneous material were analyzed if no asbestos is detected. In some cases, all samples were analyzed in the sample set regardless of result.

The analysis was performed in accordance with Test Method EPA/600/R-93/116: Method for the Determination of Asbestos in Bulk Building Materials, July 1993.

Analytical results were compared to the following criteria:

Jurisdiction	Friable	Non-Friable
Nova Scotia	0.5% ¹	0.5%

Where building materials are described in the report as “non-asbestos” or “does not contain asbestos”, this means that either no asbestos was detected by the analytical method utilized in any of the multiple samples or, if detected, it is below the lower limit of an asbestos-containing material in the applicable regulation. Additionally, these terms are used for materials which historically are known to not include asbestos in their manufacturing.

Asbestos materials were evaluated in order to make recommendations regarding any remedial work. The priority for remedial action was based on several factors:

- Friability (friable or non-friable)
- Condition (good, fair, poor, debris)
- Accessibility (ranking from accessible to all building users to inaccessible)
- Visibility (whether the material is obscured by other building components)
- Efficiency of the work (for example, if damaged ACM is being removed in an area, it may be most practical to remove all ACM in the area even if it is in good condition)

For a complete description of the Evaluation Criteria and Basis of Recommendations, refer to Annex A.

1.2 Lead

Samples of distinctive paint finishes, and surface coatings present in more than a limited application, where removal of the paint is possible were collected. The samples were collected by scraping the painted finish to include base and covering applications.

Analysis for lead in paints or surface coatings was performed in accordance with EPA Method No. 3050B/Method No. 7420; flame atomic absorption.

Analytical results were compared to the following criteria.

Jurisdiction	Units (%)	Units (ppm) / (mg/kg)
Nova Scotia	0.009	90

Other lead building products (e.g. batteries, lead sheeting, flashing) were identified by visual observation only.

¹ Or any amount if vermiculite

1.3 Silica

Building materials known to contain crystalline silica (e.g. concrete, cement, tile, brick, masonry, mortar) were identified by visual inspection only. Pinchin did not perform sampling of these materials for laboratory analysis of crystalline silica content.

1.4 Mercury

Building materials, products or equipment (e.g. thermostats, barometers, pressure gauges, lamp tubes), suspected to contain mercury were identified by visual inspection only. Dismantling of equipment suspected of containing mercury was not performed. Sampling of these materials for laboratory analysis of mercury content was not performed.

1.5 Polychlorinated Biphenyls

The potential for light ballast and oil filled transformers to contain PCBs was based on the age of the building, a review of maintenance records, and examination of labels or nameplates on equipment, where present and accessible. The information was compared to known ban dates of PCBs and Environment Canada publications.

Dry type transformers were presumed to be free of dielectric fluids and hence non-PCB.

Fluids (mineral oil, hydraulic, Aroclor or Askarel) in transformers or other equipment were not sampled for PCB content.

Select caulking was sampled and submitted for PCB analysis following EPA 3550C/8082A.

Sample results are compared to the criteria of 50 mg/kg for solids as stated in the PCB Regulation, SOR/2008-273.

1.6 Visible Mould

The presence of mould or water damage was determined by visual inspection of exposed building surfaces. If any mould growth or water damage was concealed within building cavities it was not addressed in this assessment.

Template: Methodology for Hazardous Building Materials Assessment, HAZ, January 16, 2024

METHODOLOGY ANNEX A EVALUATION CRITERIA

1.0 EVALUATION CRITERIA AND BASIS OF RECOMMENDATIONS

The detailed asbestos assessment provides information regarding the location, condition, accessibility and friability of the asbestos-containing materials (ACM). In order to make recommendations for compliance with current regulations, Pinchin developed the following criteria.

2.0 EVALUATION OF CONDITION

2.1 Friable Sprayed or Trowelled Fireproofing, Thermal Insulation and Texture Finishes (Surfacing Materials)

To evaluate the condition of ACM sprayed or trowelled on fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes, the following criteria are applied:

Good	Surface of material shows no significant signs of damage, deterioration or delamination. Good condition includes unencapsulated or unpainted fireproofing or texture finishes, where no or limited delamination or damage is observed, or encapsulated fireproofing or texture finishes where the encapsulant or paint has been applied after the damage or fallout occurred.
Poor	A sprayed material that shows signs of significant damage or is significantly delaminating or deteriorating. This may be limited to surface delamination or some portion of the substrate may be exposed.

In Locations where damage exists in isolated areas, both good and poor condition may be applicable. The extent of each condition will be recorded. Fair condition is not utilized in the evaluation of ACM sprayed or trowelled fireproofing, sprayed or trowelled thermal insulation (non-mechanical), or texture, decorative or acoustic finishes.

The evaluation of the above products above ceilings may be limited by the number of observations and by building components such as ducts or full height walls that obstruct the above ceiling observations.

2.2 Friable Mechanical or Thermal System Insulation (TSI)

To evaluate the condition of mechanical insulation on vessels, boilers, breeching, ducts, pipes, fan units, equipment etc. the following criteria are applied:

Good	Insulation is completely covered in jacketing and exhibits no evidence of damage or deterioration. No insulation is exposed. Includes conditions where the jacketing has minor damage (i.e. scuffs or stains), but the jacketing is not penetrated.
Fair	Minor penetrating damage to jacketed insulation (cuts, tears, nicks, deterioration or delamination) or undamaged insulation that has 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	Original insulation jacket is missing, damaged, deteriorated or delaminated. Insulation is exposed and significant areas have been dislodged. Damage cannot be readily repaired. Includes components where insulation may have been removed incompletely.
-------------	---

The evaluation of mechanical insulation may be limited by the number of observations made and building components such as ducts or full height walls that obstruct observations. It is often not possible to observe each foot of mechanical insulation from all angles.

2.3 Potentially Friable Materials and Miscellaneous Friable Materials

Potentially friable ACM are products that are basically non-friable while in place but have the potential to generate friable dust upon removal or if significantly disturbed without appropriate procedures. These products may become friable if damaged. Potentially friable materials include materials such as acoustic ceiling tiles and plaster. To evaluate the condition of potentially friable materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
Fair	Showing signs of some cracking or breakage, but is not deteriorating (e.g. cracked plaster, broken but in place ceiling tile, missing tile or section of plaster etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material has deteriorated to a point it has become friable. Normally potentially friable ACM in Poor condition is not repairable and requires at least localized removal and replacement.

2.4 Non-Friable Materials

Non-friable ACM cover a wide range of products with a wide variation in their tendency to release dust or asbestos fibres to the air. Many of these materials, (particularly where the matrix is an unweathered bitumen, asphalt or tar material) do not release fibres except in very unusual circumstances or during significant disturbance (e.g. use of abrasive power tools). Others with a cementitious matrix (asbestos-cement products) can more readily release dust due to abrasion, demolition, weathering, etc. The potential for asbestos release from non-friable ACM is always lower than from friable ACM. To evaluate the condition of non-friable Materials, the following criteria are applied:

Good	No significant damage or deterioration. Still serving its intended use as a building material or finish.
-------------	--

Fair	Showing signs of some cracking or breakage but is not deteriorating (e.g. cracked vinyl floor tile, missing piece of tile or transite, etc.). The condition is such that it is still serving its intended use as a building material or finish but may require repair for mainly cosmetic purposes.
Poor	Significant deterioration or breaking apart of the material to the point at which it cannot be repaired, and it will require at least local removal. Material has deteriorated to the point it is not serving its intended use as building material or finish. Material may have deteriorated to a point where traffic or disturbance may cause it to become friable.

2.5 Evaluation of ACM Debris

The identification of the exact location or presence of debris on the top of ceiling tiles is limited by the number of observations made and the presence of building components such as ducts or full height walls that obstruct observations.

The presence of fallen or dislodged ACM is noted separately from the ACM source and is referred to as Debris. Debris may be friable if from a friable ACM source or a badly deteriorated non-friable ACM source. Debris may also be non-friable (such as fallen pieces of transite sheet or mastic fittings, or broken, dislodged floor tiles).

Debris	Debris may be friable or non-friable but is always identified as debris.
---------------	--

2.6 Evaluation of Presumed Asbestos-Containing Material (PACM)

Presumed asbestos-containing materials (PACM), are building materials that may contain asbestos but were not sampled or analyzed due to inaccessibility or the need to perform destructive testing to obtain a reasonable sample set. Evaluation of these materials is based on the assumption that these PACM are asbestos-containing.

A list of PACM is provided in the report and they are generally not included in the detailed room by room reports. Typically, they are excluded because they are inaccessible or present in very small quantities. If PACM are evaluated, Pinchin uses the criteria that correspond with the type (and friability) of the material listed above.

3.0 EVALUATION OF ACCESSIBILITY

The accessibility of building materials known or suspected of being ACM is rated according to the following criteria:

Access (A)	Common areas of the building within reach of all building users (approximately 8' - 9' from floor or standard ceiling height). Includes other areas where occupant activities may result in disturbance of material that is not normally within reach from floor level, but may be disturbed by common activities (e.g. gymnasiums, workshops, warehouses.)
Access (B)	Areas of the building accessed primarily by Maintenance/Caretaking/Janitorial Staff and within reach without use of a ladder. Includes areas within reach in Boiler Rooms, Electrical Rooms, Janitors Closets, Elevator Rooms, Mechanical Rooms, etc. Includes materials within reach from fixed ladders or catwalks, mezzanines, and accessible pipe chases.
Access (C) and Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Only includes ACM that are visible to view without the removal or opening of other building components such as ceiling tiles or service access panels. Visible column on HMIS sheets will say YES.
Access (C) and not Visible	Areas of the building above 8' - 9' where use of a ladder or scaffold is required to reach the ACM. Includes ACM that are not visible to view and require the removal of a building component to see, such as ceilings tiles or access panels to view and access. Includes rarely entered crawl spaces, attic spaces, etc. Observations will be limited to the extent visible from the access points. Visible column on HMIS sheets will say NO.
Access (D)	Areas of the building behind inaccessible solid ceiling systems, walls or equipment etc. where demolition of the ceiling, wall or equipment etc. is required to reach the ACM. Material inaccessible due to height or location or is only accessed under unusual situations. Evaluation of condition and extent of ACM is limited or impossible, depending on the surveyor's ability to visually examine materials in Access D.

4.0 ACTION MATRIX AND DEFINITIONS

Pinchin's evaluation of the viability of a specific asbestos control option is based on the consideration of the friability, condition, accessibility and visibility of a material. The logic used is that damaged ACM located in an area frequently accessed by all building occupants is of a higher priority than damaged ACM located in an infrequently accessed service area. The action matrix considers the potential for fibre release (primarily from friable ACM) and the possible concerns from regulatory bodies and many building occupants to all damaged ACM (including non-friable).

In any building with asbestos, many current regulations require an Asbestos Management Program be implemented. Depending on the condition and the accessibility, more active measures such as repair or removal may be recommended. The following matrix provides guidance for recommended Actions in the absence of renovation or demolition. In the event of construction or maintenance activity which will disturb ACM more aggressive control or removal will be required.

4.1 Action Matrix

The following tables outline the action decisions based on the relationship of assessed factors. Table I applies to friable ACM. Table II applies to non-friable ACM.

Table I Decision Matrix for Friable ACM

Access	Condition			Debris
	Good	Fair	Poor	
(A)	Action 5 ¹	Action 5 ²	Action 3	Action 1
(B)	Action 7	Action 6 ³	Action 3	Action 1
(C) Visible	Action 7	Action 6	Action 3	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

Table II Decision Matrix for Potentially Friable and Non-Friable ACM

Access	Condition			Debris
	Good	Fair	Poor	
(A)	Action 7	Action 7 ⁴	Action 3	Action 1
(B)	Action 7	Action 7	Action 3	Action 1
(C) Visible	Action 7	Action 7	Action 4	Action 2
(C) Not Visible	Action 7	Action 7	Action 4	Action 2
(D)	Action 7	Action 7	Action 7	Action 7

4.2 Action Definitions

The following are the definitions in the Action Matrix Table presented above:

Action Definitions	
Action 1	Clean-Up of ACM Debris Restrict access that is likely to cause a disturbance of the ACM Debris and clean up ACM Debris. Utilize appropriate asbestos precautions.

¹ If friable ACM in access (A)/Good condition is not proactively removed Action 7 (Manage) is recommended.

² If friable ACM in access (A)/Fair condition is not proactively removed repair is recommended.

³ If friable ACM in access (B)/Fair condition is likely to be disturbed after repair proactive removal is recommended.

⁴ Action 7 is recommended for all non-friable ACM in Fair condition however some clients may wish to repair or take some action primarily for cosmetic reasons



Action Definitions

Action 2	<p>Precautions for Access Which may Disturb ACM Debris</p> <p>Use appropriate means to isolate the debris or to limit entry to the area which may disturb the material. At locations where ACM Debris can remain in place in lieu of removal or clean-up (e.g. Debris on top of ceiling tiles or behind lockable door), Utilize appropriate asbestos precautions to enter the area if this will disturb debris. The precautions will be required until the ACM Debris has been cleaned up.</p>
Action 3	<p>ACM Removal</p> <p>Remove ACM. Utilize asbestos procedures appropriate to the scope of the removal work. Until it is removed, restrict access to the material so it is not disturbed.</p>
Action 4	<p>Precautions for Work Which may Disturb ACM in Poor Condition. Utilize appropriate asbestos precautions if ACM may be disturbed by work on or near ACM. This does not require restricting access to the area, only control of work which may contact or disturb the ACM. Removal is the only viable option if work will disturb ACM.</p>
Action 5	<p>Proactive ACM Removal</p> <p>Remove friable ACM where the presence of friable asbestos in Good condition is not desirable. If friable ACM in Fair condition is not removed, then Repair friable ACM.</p>
Action 6	<p>ACM Repair</p> <p>Repair friable ACM in Fair condition which is not likely to be damaged again or disturbed by normal use of the area or room. Pinchin recommends proactive removal if friable ACM is likely to be damaged or disturbed during normal use of the area or room.</p>
Action 7	<p>Asbestos Management Program with Routine Surveillance Implement an Asbestos Management Program, including routine surveillance of ACM. Reassess materials regularly (typically once per year).</p>

Master Template: Methodology Annex A to Appendix I Evaluation Criteria, HAZ, August 17, 2023

APPENDIX IV
Location Summary Report

Client:HRCE

Site: 88 Belle Vista Drive, Dartmouth, NS

Building Name: Ellenvale Junior High School

Survey Date: 2024-03-05

Last Re-Assessment:

Building Phases: A: 1967

Location No.	Name or Description	Area ft ²	Floor No.	Bldg. Phase	Notes
1	Exterior	0		A	
2	Boiler Room, room no. 109	800	1	A	
3	Music Room, room no. 108	1000	1	A	
4	Classroom, room no. 107	720	1	A	
5	Classroom, room no. 106	720	1	A	
6	Office, room no. 105	230	1	A	
7	Washroom	40	1	A	
8	Janitor Room	60	1	A	
9	Caretaker Office, room no. 104	80	1	A	
10	Kitchen	350	1	A	
11	Staff Room, room no. 103	600	1	A	
12	Men's Washroom	55	1	A	
13	Women's Washroom	55	1	A	
14	Secretary Office, room no. 102	160	1	A	
15	Vice Principal Office	150	1	A	
16	Principal Office, room no. 101	300	1	A	
17	Washroom	25	1	A	
18	Safe	0	1	A	NO ACCESS
19	Boys Washroom	350	1	A	
20	Girls Washroom	350	1	A	
21	Library	720	1	A	
22	Classroom, room no. 116	720	1	A	
23	Classroom, room no. 115	720	1	A	
24	Classroom, room no. 114	720	1	A	
25	Classroom, room no. 113	720	1	A	
26	Gymnasium, room no. 117	5000	1	A	
27	Stage	600	1	A	
28	Exit Stage Right	50	1	A	
29	Gym Office, room no. 118	100	1	A	
30	Gym Storage	400	1	A	
31	Boys Change Room	450	1	A	
32	Gym Office, room no. 119	70	1	A	
33	Girls Change Room	450	1	A	
34	Wood Shop, room no. 112	1300	1	A	
35	Lumber Storage	350	1	A	
36	Storage	250	1	A	
37	Wood Shop Entry	35	1	A	
38	Office	100	1	A	
39	Band Room, room no. 110	1250	1	A	
40	Session Room, room no. 111	220	1	A	
41	Storage	45	1	A	
42	Instrument Storage	140	1	A	
43	Storage	50	1	A	
44	Hallway	800	1	A	
45	Hallway and Side Vestibule	1800	1	A	
46	Hallway	550	1	A	
47	Hallway	2000	1	A	
48	Science Lab, room no. 208	1100	2	A	
49	Storage, room no. 209	185	2	A	
50	Science Lab Entry	80	2	A	
51	Classroom, room no. 210	820	2	A	
52	Classroom, room no. 206	750	2	A	
53	Classroom, room no. 205	750	2	A	
54	Classroom, room no. 204	750	2	A	
55	Classroom, room no. 203	750	2	A	
56	Classroom, room no. 202	750	2	A	
57	Classroom, room no. 201	750	2	A	
58	Storage	55	2	A	
59	Classroom, room no. 220	900	2	A	
60	Boys Washroom	300	2	A	
61	Side Room	55	2	A	
62	Girls Washroom	300	2	A	

Location No.	Name or Description	Area ft ²	Floor No.	Bldg. Phase	Notes
63	Janitor Room	60	2	A	
64	Breakfast Room, room no. 219	725	2	A	
65	Classroom, room no. 218	750	2	A	
66	Classroom, room no. 217	750	2	A	
67	Classroom, room no. 216	750	2	A	
68	Classroom, room no. 215	750	2	A	
69	Classroom, room no. 214	750	2	A	
70	Classroom, room no. 212	1100	2	A	
71	Classroom Entry	100	2	A	
72	Washroom	40	2	A	
73	Home Economics Classroom, room no. 211	1300	2	A	
74	Pantry	60	2	A	
75	Office, room no. 213	115	2	A	
76	HVAC Room	220	2	A	
77	IT Room, room no. 207	85	2	A	
78	HVAC Room	220	2	A	
79	Hallway	1200	2	A	
80	Hallway	500	2	A	
81	Hallway	1200	2	A	
82	Hallway	800	2	A	
83	Stairway	250	1-2	A	
84	Stairway	250	1-2	A	

APPENDIX V
Hazardous Materials Summary Report / Sample Log

Client:HRCE **Site:** 88 Belle Vista Drive, Dartmouth, NS **Building Name:** Ellenvale Junior High School **Survey Date:** 2024-03-05

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
Asbestos	S0001 ABC	Other Soffit Caulking Grey, Between Brick And Wood Soffit	1	A	72	0	0	0	None Detected	No	
Asbestos	S0002 ABC	Wall Door Caulking Light Grey, Door Frame	1	A	125	0	0	0	None Detected	No	
Asbestos	S0003 ABC	Piping Hot Water Heating, Debris Parging Cement	2,3,4,5,6,10,11,15,16,21,23,24,25,29,30,34 35,36,38,39,40,42,44,45,46,47	A	0	15	231	0	Chrysotile	Yes	F
Asbestos	S0004 ABC	Ceiling Plaster Base Coat	2	A	0	800	0	0	None Detected	No	
Asbestos	S0005 ABCDEFG	Wall, Ceiling, Wall Interior Plaster	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,19 20,21,22,23,24,25,26,27,28,29,32,38,51,52,53 55,56,59,60,62,65,66,69,70,73	A	0	26485	0	0	None Detected	No	
Asbestos	S0006 ABC	Floor Vinyl Floor Tile And Mastic 12" Beige With Light Brown Flecks	3,8,9,17,27,36,40,59,72,73,74,79,80,81,82	A	0	6775	0	0	Chrysotile	Yes	NF
Asbestos	S0007 ABCDEFG	Wall, Ceiling, Wall Exterior, Interior Drywall And Joint Compound	3,4,5,19,20,21,22,23,24,25,30,31,33,34,36,39 40,42,48,49,50,51,52,53,54,55,56,57,58,61,64 65,66,67,68,69,70,71,72,73,74,75,76,78,79,81 83,84	A	0	31540	0	0	Chrysotile	Yes	NF
Asbestos	S0008 ABC	Floor Vinyl Floor Tile And Mastic 12" Light Green With Green Streaks	4,14,24,41,55,68,76,78	A	0	3585	0	0	Chrysotile	Yes	NF
Asbestos	S0009 ABC	Floor Vinyl Floor Tile And Mastic 12" Light Brown With Beige Streaks	5,23,52,66	A	0	2940	0	0	Chrysotile	Yes	NF
Asbestos	S0010 ABC	Floor Vinyl Floor Tile And Mastic 12" Light Blue With White Streaks	6,7,22,53,67	A	0	2490	0	0	Chrysotile	Yes	NF
Asbestos	S0011 ABC	Piping Domestic Water (hot And Cold), Debris Parging Cement	7,8,12,17,20,30,31,32,33,34,36,39,46,47	A	0	2	79	0	Chrysotile	Yes	F
Asbestos	S0012 ABC	Floor Vinyl Floor Tile And Mastic 12" Pale Brown With Beige Streaks	8,9,15,16,25,27,28,29,30,32,35,37,38,51,56 57,71,77	A	0	4385	0	0	Chrysotile	Yes	NF
Asbestos	S0013 ABC	Floor Vinyl Floor Tile And Mastic 12" Pale Blue With Dark And Light Flecks	10,11,39,42	A	0	2340	0	0	Chrysotile	Yes	NF
Asbestos	S0014	Other Sink Mastic, Gold	10,30,34,48,73	A	0	0	15	0	Chrysotile	Yes	NF
Asbestos	S0015 ABC	Floor Vinyl Floor Tile And Mastic 12" Dark Blue With Dark Flecks	12,13	A	0	110	0	0	Chrysotile	Yes	NF
Asbestos	S0016 ABC	Floor Vinyl Floor Tile And Mastic 12" Pale Green With Light Streaks	21,48,49,50,54,58,59,61,65	A	0	3700	0	0	Chrysotile	Yes	NF
Asbestos	S0017 ABC	Floor Vinyl Floor Tile And Mastic 12" Cream With Brown Streaks	25	A	0	310	0	0	Chrysotile	Yes	NF
Asbestos	S0018 ABC	Floor Vinyl Floor Tile And Mastic 12" Tan	27,35	A	0	950	0	0	Chrysotile	Yes	NF
Asbestos	S0019 ABC	Wall Door Caulking Light Grey, Door Frame	35	A	18	0	0	0	Chrysotile	Yes	NF
Asbestos	S0020 ABC	Wall Door Caulking Butyl Seal	32,37,61,70	A	55	0	0	0	None Detected	No	
Asbestos	S0021 ABC	Floor Vinyl Floor Tile And Mastic 12" Light Grey With White Streaks	39,43	A	0	58	0	0	Chrysotile	Yes	NF
Asbestos	S0022 ABC	Floor Vinyl Floor Tile And Mastic 12" Light	30	A	0	60	0	0	None	No	

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
		Purple With White Streaks							Detected		
Asbestos	S0023 ABC	Floor Vinyl Floor Tile And Mastic 12" Purple With Light And Dark Flecks	48,49	A	0	795	0	0	None Detected	No	
Asbestos	S0024 ABC	Duct Mastic Green	59	A	36	0	0	0	None Detected	No	
Asbestos	S0025 ABC	Wall Window Liner Caulking Grey	47,59	A	28	0	0	0	None Detected	No	
Asbestos	S0026 ABC	Floor Vinyl Floor Tile And Mastic 12" Light Brown With Brown Flecks	63	A	0	60	0	0	Chrysotile	Yes	NF
Asbestos	S0027 ABC	Floor Vinyl Floor Tile And Mastic 12" Pink With White Streaks	64,69	A	0	1475	0	0	Chrysotile	Yes	NF
Asbestos	S0028 ABC	Wall Door Caulking Light Grey, Between Brick And Door Frame	47	A	20	0	0	0	None Detected	No	
Asbestos	S0029 ABC	Floor Vinyl Sheet Flooring Beige Marble Battleship Flooring	45,47	A	0	60	0	0	None Detected	No	
Asbestos	S0030 ABC	Floor Vinyl Floor Tile And Mastic 12" Beige With Dark Brown Streaks	70	A	0	1100	0	0	Chrysotile	Yes	NF
Asbestos	S0031 ABC	Floor Vinyl Sheet Flooring Pink And Brown Marble Battleship Flooring	71,79,81	A	0	90	0	0	None Detected	No	
Asbestos	S0032 ABC	Floor Vinyl Floor Tile And Mastic 12" Beige With Brown And White Flecks	75	A	0	115	0	0	None Detected	No	
Asbestos	S0033 ABC	Wall Caulking Grey, Between Wood And Cement Board	1	A	10	0	0	0	None Detected	No	
Asbestos	V9500	Ceiling Ceiling Tiles (glue-on)	26,27	A	0	4600	0	0	Presumed Asbestos	Yes	PF
Asbestos	V9500	Floor Mortar Ceramic Tile Thinset	12,44,47	A	0	86	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Floor Stairs Terrazzo	19,20,31,33,44,45,46,47,60,62,83,84	A	0	7770	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Other Countertop Bakelite	48	A	0	10	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Wall Cement Product	1	A	0	1000	0	0	Presumed Asbestos	Yes	NF
Asbestos	V9500	Wall Mortar Ceramic Tile Thinset	31,33	A	0	500	0	0	Presumed Asbestos	Yes	NF
Asbestos	V0000	Ceiling Acoustic Tile Ceiling Tiles (lay-in)	19,20,21,22,33,44,45,46,47,49,60,62,63,76,78 79,80,81,82	A	0	0	0	0	Non Asbestos	No	
Asbestos	V0000	Wall Window Caulking	1	A	0	0	0	0	Non Asbestos	No	
Paint	L0001	Structure Concrete (poured) Grey	1	A	0	1200	0	0	Lead (Low)	Yes	-
Paint	L0002	Other Wood White	1	A	0	1900	0	0	Lead (Low)	Yes	-
Paint	L0003	Floor Concrete (poured) Grey/red	2	A	0	800	0	0	Lead (Low)	Yes	-
Paint	L0004	Wall Masonry White	2,33,44,50	A	0	3990	0	0		No	-
Paint	L0005	Wall Plaster Off-white	3,4,5,6,7,8,9,11,12,13,17,20,23	A	0	42400	0	0		No	-

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
			24,25,26,51,53,55,56,57,59,60,62,64,65 66,67,68,69,70,71,72,75,77,79,81,82								
Paint	L0006	Wall Plaster Pale Yellow	10,21,22,28,30,31,36,39,40,48,49,52,54 63,73,74,76,78	A	0	20060	0	0	Lead (Low)	Yes	-
Paint	L0007	Wall Plaster Pale Pink	16	A	0	750	0	0	Lead (Low)	Yes	-
Paint	L0008	Wall Masonry Black	27	A	0	1100	0	0		No	-
Paint	L0009	Wall Masonry Tan	34,35,37,38,45,46,47,58,61,80,82,83,84	A	0	11600	0	0	Lead (Low)	Yes	-
Paint	L0010	Wall Plaster Pale Green	15,29	A	0	680	0	0	Lead (Low)	Yes	-
Paint	L0011	Wall Wood White	44,45,46,47,79,80,81,82,84	A	0	9200	0	0		No	-
Lead Product	V9000	Batteries (other)	14,47	A	0	0	2	0	Lead Product	Yes	-
Lead Product	V9000	Bell And Spigot Fittings	3,19,20,47,48	A	0	0	86	0	Lead Product	Yes	-
Lead Product	V9500	Batteries (other)	44	A	0	0	1	0	Presumed Lead Product	Yes	-
Lead Product	V9500	Batteries In Emer. Lights	2,11,19,20,26,27,34,39,44,45,46,47,60 62,70,73,79,80,81,82,83,84	A	0	0	37	0	Presumed Lead Product	Yes	-
PCB	P0001	Caulking Grey, Between Brick And Wood Soffit	1	A	72	0	0	0	-	No	-
PCB	V9500	Light Ballasts	44,45,47	A	0	0	21	0	Presumed PCB	Yes	-
PCB	V0000	Light Ballasts	2,3,4,5,6,7,8,9,10,11,12,13,14 15,16,17,19,20,21,22,23,24,25,26,29,30 31,32,33,34,35,36,39,40,41,42,43,44,45 46,47,48,49,50,51,52,53,54,55,56,57,58 59,60,61,62,63,64,65,66,67,68,69,70,71 73,74,75,77,79,80,81,82,83,84	A	0	0	816	0	-	No	-
Mould	V9000	Fibreglass	25,44,45,46,47	A	0	305	0	0	Mould	Yes	-
Mould	V9500	Ceiling Tiles (lay-in)	20,30,36,39,44,45,47,53,78,79,81,82	A	0	68	0	0	Presumed Mould	Yes	-
Mould	V9500	Ceiling Tiles (glue-on)	26	A	0	75	0	0	Presumed Mould	Yes	-
Mould	V9500	Drywall (no Compound)	28,34,39,66	A	0	24	0	0	Presumed Mould	Yes	-
Mould	V9500	Plaster	26	A	0	40	0	0	Presumed Mould	Yes	-
Hg	V9000	Light Fixture	26,31,34,63	A	0	0	47	0	Hg	Yes	-
Hg	V0000	Light Fixture	2,3,4,5,6,7,8,9,10,11,12,13,14 15,16,17,19,20,21,22,23,24,25,29,30,32 33,34,35,36,39,40,41,42,43,44,45,46,47 48,49,50,51,52,53,54,55,56,57,58,59,60	A	0	0	769	0	-	No	-

HAZMAT	Sample No	System/Component/Material/Sample Description	Locations	Bldg. Phase	LF	SF	EA	%	Type	Positive	Friability
			61,62,64,65,66,67,68,69,70,71,73,74,75 77,79,80,81,82,83,84								

Legend:

Sample number		Units			
S####	Asbestos sample collected	SF	Square feet	NF	Non Friable material.
L####	Paint sample collected	LF	Linear feet	F	Friable material
P####	PCB sample collected	EA	Each	PF	Potentially Friable material
M####	Mould sample collected	%	Percentage		
V####	Material visually similar to numbered sample collected				
V0000	Known non Hazardous Material				
V9000	Material is visually identified as Hazardous Material				
V9500	Material is presumed to be Hazardous Material				
[Loc. No.]	Abated Material				

APPENDIX VI
Confirmed and Presumed Report

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #1 : Exterior
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor:

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall ¹		Cement Product		Metal	A	Y		25(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall ²		Cement Product		Metal	D	N		975(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

- 1 - Visible during the assessment because of a missing panel of metal cladding.
- 2 - Covered by metal cladding.

Client: HRCE
Location: #1 : Exterior
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor:

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Other ¹	Wood	700	700	SF	V0002	White	Pb: 470 mg/kg	Lead (Low)	
Structure	Concrete (poured)	1200		SF	L0001	Grey	Pb: 240 mg/kg	Lead (Low)	
Other	Wood	500		SF	L0002	White	Pb: 470 mg/kg	Lead (Low)	

- 1 - Soffit and fascia along roof edge

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #2 : Boiler Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 109
Last Re-Assessment: 0000-00-00

Area (sqft): 800

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Piping ¹	Hot Water Heating	Parging Cement	Fitting	Canvas	B	Y		1(7)			EA	S0003A	Chrysotile	50-75%	Confirmed Asbestos	F

1 - Corner by exterior door

Client: HRCE
Location: #2 : Boiler Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 109
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Floor	Concrete (poured)	790	10	SF	L0003	Grey/red	Pb: 120 mg/kg	Lead (Low)	

Client: HRCE
Location: #2 : Boiler Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 109
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #2 : Boiler Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 109
Last Re-Assessment: 0000-00-00

Area (sqft): 800

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	10	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #3 : Music Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 108
Last Re-Assessment: 0000-00-00

Area (sqft): 1000

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		1000(7)			SF	S0006A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			13(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		200(7)			SF	S0007A	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #3 : Music Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 108
Last Re-Assessment: 0000-00-00

Area (sqft): 1000

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Bell And Spigot Fittings	9	EA	V9000	Yes

Client: HRCE
Location: #3 : Music Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 108
Last Re-Assessment: 0000-00-00

Area (sqft): 1000

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	28	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #4 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 107
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		720(7)			SF	S0008A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			13(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #4 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 107
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #5 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 106
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light brown with beige streaks			A	Y		720(7)			SF	S0009A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			13(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #5 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 106
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #6 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 105
Last Re-Assessment: 0000-00-00

Area (sqft): 230

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light blue with white streaks			A	Y		230(7)			SF	S0010A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			7(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #6 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 105
Last Re-Assessment: 0000-00-00

Area (sqft): 230

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	4	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #7 : Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 40

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light blue with white streaks			A	Y		40(7)			SF	V0010	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N				2(4)	EA	S0011A	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #7 : Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 40

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #8 : Janitor Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		20(7)			SF	S0006B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		36(7)	4(7)		SF	S0012A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			2(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #8 : Janitor Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #9 : Caretaker Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 104
Last Re-Assessment: 0000-00-00

Area (sqft): 80

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		10(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		70(7)			SF	S0012B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #9 : Caretaker Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 104
Last Re-Assessment: 0000-00-00

Area (sqft): 80

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #10 : Kitchen
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale blue with dark and light flecks			A	Y		350(7)			SF	S0013A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Other	Sink	Mastic, Gold			A	Y		1(7)			EA	S0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			6(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #10 : Kitchen
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	900		SF	L0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #10 : Kitchen
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	5	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #11 : Staff Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 103
Last Re-Assessment: 0000-00-00

Area (sqft): 600

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale blue with dark and light flecks			A	Y		600(7)			SF	S0013B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			8(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #11 : Staff Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 103
Last Re-Assessment: 0000-00-00

Area (sqft): 600

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #11 : Staff Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 103
Last Re-Assessment: 0000-00-00

Area (sqft): 600

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	13	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #12 : Men's Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" dark blue with dark flecks			A	Y		55(7)			SF	S0015A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Mortar, Ceramic tile thinset		Ceramic Tiles	D	N		6(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			2(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #12 : Men's Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #13 : Women's Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" dark blue with dark flecks			A	Y		55(7)			SF	S0015BC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #13 : Women's Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

Client: HRCE
Location: #14 : Secretary Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 102
Last Re-Assessment: 0000-00-00

Area (sqft): 160

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		160(7)			SF	S0008B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #14 : Secretary Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 102
Last Re-Assessment: 0000-00-00

Area (sqft): 160

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall ¹	Plaster	75		SF		Orange		No	
Wall ²	Plaster	325		SF		Dark green		No	

1 - <500 SF

2 - <500 SF

Client: HRCE
Location: #14 : Secretary Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 102
Last Re-Assessment: 0000-00-00

Area (sqft): 160

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries (other)	1	EA	V9000	Yes

Client: HRCE
Location: #14 : Secretary Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 102
Last Re-Assessment: 0000-00-00

Area (sqft): 160

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	3	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #15 : Vice Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 150

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		150(7)			SF	S0012C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			5(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #15 : Vice Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 150

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	380		SF	V0010	Pale green	Pb: 670 mg/kg	Lead (Low)	

Client: HRCE
Location: #15 : Vice Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 150

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #16 : Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 101
Last Re-Assessment: 0000-00-00

Area (sqft): 300

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		300(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Debris	Parging Cement	Debris		C	N				1(2)	SF	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			7(7)	1(4)	EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting	Canvas	A	Y		1(5)			EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #16 : Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 101
Last Re-Assessment: 0000-00-00

Area (sqft): 300

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	750		SF	L0007	Pale pink	Pb: 450 mg/kg	Lead (Low)	

Client: HRCE
Location: #16 : Principal Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 101
Last Re-Assessment: 0000-00-00

Area (sqft): 300

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	3	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #17 : Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 25

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		25(7)			SF	S0006C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping ¹	Debris	Parging Cement	Debris		C	N				2(2)	SF	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			4(7)	2(4)	EA	S0011B	Chrysotile	50-75%	Confirmed Asbestos	F

1 - Debris on top of ceiling tile with hole in center

Client: HRCE
Location: #17 : Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 25

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

ASBESTOS - NO ACCESS

System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

PB PRODUCTS - NO ACCESS

Component	Quantity	Unit	Sample	Hazard
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

MERCURY - NO ACCESS

Component	Quantity	Unit	Sample	Hazard
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

PCB - NO ACCESS

Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

ODS - NO ACCESS

Component	Type	Quantity	Unit	Sample	Hazard
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

MOULD - NO ACCESS

System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
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Client: HRCE
Location: #18 : Safe
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 0

TANK - NO ACCESS

Client: HRCE
Location: #19 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		350(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Drywall and joint compound			A	Y		700(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #19 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	300		SF		Pale blue		No	
Wall	Drywall and joint compound	700		SF		Pale blue		No	

Client: HRCE
Location: #19 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed
Bell And Spigot Fittings	36	EA	V9000	Yes

Client: HRCE
Location: #19 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	9	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #20 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		350(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			10(7)	2(4)	EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Wall		Drywall and joint compound			A	Y		400(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #20 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed
Bell And Spigot Fittings	36	EA	V9000	Yes

Client: HRCE
Location: #20 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	8	EA	V0000	

1 - LED

Client: HRCE
Location: #20 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

MOULD									
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description		Mould
Ceiling	Ceiling Tiles (lay-in)	Y	3	SF	V	9500			Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #21 : Library
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		720(7)			SF	S0016A	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			10(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	S0007B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #21 : Library
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 720

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	1200		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	150		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #21 : Library
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	9	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #22 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 116
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light blue with white streaks			A	Y		720(7)			SF	S0010B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #22 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 116
Last Re-Assessment: 0000-00-00

Area (sqft): 720

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	1200		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	150		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #22 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 116
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	9	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #23 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 115
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light brown with beige streaks			A	Y		720(7)			SF	S0009B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			13(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #23 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 115
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	15	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #24 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 114
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		720(7)			SF	S0008C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			13(7)		EA	S0003B	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #24 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 114
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #25 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 113
Last Re-Assessment: 0000-00-00

Area (sqft): 720

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		410(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" cream with brown streaks			A	Y		310(7)			SF	S0017ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			12(7)	1(4)	EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		150(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #25 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 113
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

Client: HRCE
Location: #25 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 113
Last Re-Assessment: 0000-00-00

Area (sqft): 720

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Piping	Fibreglass	Y	10	SF	V	9000	Canvas wrap	Yes

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #26 : Gymnasium
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #: 117
Last Re-Assessment: 0000-00-00

Area (sqft): 5000

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Ceiling tiles (glue-on)			C	Y		4000(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	PF

Client: HRCE
Location: #26 : Gymnasium
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #: 117
Last Re-Assessment: 0000-00-00

Area (sqft): 5000

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	4	EA	V9500	Presumed

Client: HRCE
Location: #26 : Gymnasium
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #: 117
Last Re-Assessment: 0000-00-00

Area (sqft): 5000

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	36	EA	V9000	Yes

Client: HRCE
Location: #26 : Gymnasium
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #: 117
Last Re-Assessment: 0000-00-00

Area (sqft): 5000

MOULD									
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould	
Ceiling	Ceiling Tiles (glue-on)	Y	75	SF	V	9500		Presumed	
Wall	Plaster	Y	40	SF	V	9500		Presumed	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #27 : Stage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 600

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Ceiling tiles (glue-on)			C	Y		600(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	PF
Floor		Vinyl Floor Tile and Mastic, 12" tan			A	Y		600(7)			SF	S0018AC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		50(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		50(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #27 : Stage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 600

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #28 : Exit Stage Right
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 50

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		40(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #28 : Exit Stage Right
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 50

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	200		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #28 : Exit Stage Right
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 50

MOULD									
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould	
Ceiling	Drywall (no Compound)	Y	6	SF	V	9500		Presumed	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #29 : Gym Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 118
Last Re-Assessment: 0000-00-00

Area (sqft): 100

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		100(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			2(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #29 : Gym Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 118
Last Re-Assessment: 0000-00-00

Area (sqft): 100

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	300		SF	L0010	Pale green	Pb: 670 mg/kg	Lead (Low)	

Client: HRCE
Location: #29 : Gym Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 118
Last Re-Assessment: 0000-00-00

Area (sqft): 100

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #30 : Gym Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 400

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		360(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Other	Sink	Mastic, Gold			A	Y		1(7)			EA	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			2(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			6(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Interior	Drywall and joint compound			A	Y		400(7)			SF	S0007D	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #30 : Gym Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 400

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	800		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	400		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #30 : Gym Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 400

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	5	EA	V0000	

1 - LED

Client: HRCE
Location: #30 : Gym Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 400

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	8	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #31 : Boys Change Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 450

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		450(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Terrazzo			A	Y		450(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement			D	Y			2(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Wall		Drywall and joint compound			A	Y		300(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Mortar, Ceramic tile thinset		Ceramic Tiles	D	N		250(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE
Location: #31 : Boys Change Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 450

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	700		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	300		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #31 : Boys Change Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 450

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	4	EA	V9000	Yes

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #32 : Gym Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 119
Last Re-Assessment: 0000-00-00

Area (sqft): 70

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		70(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			4(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #32 : Gym Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 119
Last Re-Assessment: 0000-00-00

Area (sqft): 70

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #33 : Girls Change Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 450

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Ceiling		Drywall and joint compound			C	Y		100(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Terrazzo			A	Y		450(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement			C	N			10(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Wall		Drywall and joint compound			A	Y		300(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Mortar		Ceramic Tiles	D	N		250(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE
Location: #33 : Girls Change Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 450

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	8	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #34 : Wood Shop
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 112
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Other	Sink	Mastic, Gold			A	Y		1(7)			EA	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			6(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			17(7)	1(4)	EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		250(7)			SF	S0007C	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #34 : Wood Shop
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 112
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	2500		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #34 : Wood Shop
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 112
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #34 : Wood Shop
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 112
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	32	EA	V0000	
Light Fixture	6	EA	V9000	Yes

1 - LED

Client: HRCE
Location: #34 : Wood Shop
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 112
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Drywall (no Compound)	Y	10	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #35 : Lumber Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		100(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" tan			A	Y		350(7)			SF	S0018B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			16(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Door	Caulking, Light grey, door frame			A	Y		18(7)			LF	S0019ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #35 : Lumber Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	850		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #35 : Lumber Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 350

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	4	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #36 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		250(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			2(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			3(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall		Drywall and joint compound			A	Y		300(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #36 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	300		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	300		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #36 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

Client: HRCE
Location: #36 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	4	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #37 : Wood Shop Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 35

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		100(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #37 : Wood Shop Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 35

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	100		SF	L0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #38 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 100

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		100(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			3(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #38 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 100

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	300		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #39 : Band Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 110
Last Re-Assessment: 0000-00-00

Area (sqft): 1250

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale blue with dark and light flecks			A	Y		1250(7)			SF	S0013C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor ¹		Vinyl Floor Tile and Mastic, 12" light grey with white streaks			A	Y		8(7)			SF	S0021AC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			9(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			15(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		250(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

1 - Under sink

Client: HRCE
Location: #39 : Band Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 110
Last Re-Assessment: 0000-00-00

Area (sqft): 1250

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	2500		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	250		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #39 : Band Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 110
Last Re-Assessment: 0000-00-00

Area (sqft): 1250

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #39 : Band Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 110
Last Re-Assessment: 0000-00-00

Area (sqft): 1250

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	32	EA	V0000	

1 - LED

Client: HRCE
Location: #39 : Band Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 110
Last Re-Assessment: 0000-00-00

Area (sqft): 1250

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Drywall (no Compound)	Y	3	SF	V	9500		Presumed
Ceiling	Ceiling Tiles (lay-in)	Y	4	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #40 : Session Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 111
Last Re-Assessment: 0000-00-00

Area (sqft): 220

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		220(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			4(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall		Drywall and joint compound			A	Y		300(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #40 : Session Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 111
Last Re-Assessment: 0000-00-00

Area (sqft): 220

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	300		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	300		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #40 : Session Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #: 111
Last Re-Assessment: 0000-00-00

Area (sqft): 220

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #41 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 45

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		45(7)			SF	V0008	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #41 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 45

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall ¹	Masonry	120		SF		Aqua		No	

1 - <500 SF

Client: HRCE
Location: #41 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 45

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #42 : Instrument Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 140

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale blue with dark and light flecks			A	Y		140(7)			SF	V0013	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			3(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Wall	Exterior	Drywall and joint compound			A	Y		80(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #42 : Instrument Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 140

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #43 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 50

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor ¹		Vinyl Floor Tile and Mastic, 12" light grey with white streaks			A	Y		50(7)			SF	S0021B	Chrysotile	0.5-5%	Confirmed Asbestos	NF

1 - Under sink

Client: HRCE
Location: #43 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 50

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

Client: HRCE
Location: #44 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		740(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Floor		Mortar		Ceramic Tiles	D	N		60(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping ¹	Debris	Parging Cement	Debris		C	N				8(2)	SF	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Piping ²	Debris	Parging Cement	Debris		C	N				3(2)	SF	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Piping ³	Hot Water Heating	Parging Cement	Fitting		C	N				3(4)	EA	S0003C	Chrysotile	50-75%	Confirmed Asbestos	F

1 - Near stairs, on top of ceiling tiles, duct, steel beam

2 - On top of ceiling tiles near 1999 class photo

3 - Poor condition near stairs

Client: HRCE
Location: #44 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed
Batteries (other)	1	EA	V9500	Presumed

Client: HRCE
Location: #44 : Hallway
2024-04-04

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:

Area (sqft): 800

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	7	EA	V0000	

1 - LED

Client: HRCE
Location: #44 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	9	EA	V9500			Presumed

Client: HRCE
Location: #44 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Piping	Fibreglass	Y	80	SF	V	9000	Canvas wrap	Yes
Ceiling	Ceiling Tiles (lay-in)	Y	1	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		1800(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping ¹	Hot Water Heating	Parging Cement	Fitting		C	N			2(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

1 - Side vestibule

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	1800		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	4	EA	V9500	Presumed

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	18	EA	V0000	

1 - LED

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	6	EA	V9500			Presumed

Client: HRCE
Location: #45 : Hallway and Side Vestibule
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1800

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	3	SF	V	9500		Presumed
Piping	Fibreglass	Y	15	SF	V	9000	Canvas wrap	Yes

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #46 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 550

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		550(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			12(7)		EA	V0011	Chrysotile	50-75%	Confirmed Asbestos	F
Piping	Hot Water Heating	Parging Cement	Fitting		C	N			16(7)		EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

Client: HRCE
Location: #46 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 550

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	650		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #46 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 550

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #46 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 550

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	6	EA	V0000	

1 - LED

Client: HRCE
Location: #46 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 550

MOULD									
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould	
Piping	Fibreglass	Y	80	SF	V	9000	Canvas wrap	Yes	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 2000

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		1980(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Floor		Mortar		Ceramic Tiles	D	N		20(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Piping ¹	Debris	Parging Cement	Debris		C	N				3(2)	SF	V0003	Chrysotile	50-75%	Confirmed Asbestos	F
Piping ²	Domestic Water (hot And Cold)	Parging Cement	Fitting		C	N			6(7)	2(4)	EA	S0011C	Chrysotile	50-75%	Confirmed Asbestos	F
Piping ³	Hot Water Heating	Parging Cement	Fitting		C	N			14(7)	2(4)	EA	V0003	Chrysotile	50-75%	Confirmed Asbestos	F

- 1 - Near secretary office
- 2 - Poor condition near boiler room
- 3 - Poor condition near secretary office

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 2000

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	1800		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 2000

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	3	EA	V9500	Presumed
Batteries (other)	1	EA	V9000	Yes
Bell And Spigot Fittings	3	EA	V9000	Yes

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 2000

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

- 1 - LED

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-04-04

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenville Junior High School
Room #:

Area (sqft): 2000

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Survey Date: 2024-03-05

Last Re-Assessment: 0000-00-00

PCB						
Component	Quantity	Unit	Sample	Sample Description	Amount	PCB
Light Ballasts	5	EA	V9500			Presumed

Client: HRCE
Location: #47 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 2000

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Piping	Fibreglass	Y	120	SF	V	9000	Canvas wrap	Yes
Ceiling	Ceiling Tiles (lay-in)	Y	5	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #48 : Science Lab
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 208
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		400(7)			SF	S0016B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Other	Countertop	Bakelite			A	Y		10(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Other	Sink	Mastic, Gold			A	Y		5(7)			EA	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Interior	Drywall and joint compound			A	Y		2498(7)	2(7)		SF	S0007E	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #48 : Science Lab
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 208
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Drywall and joint compound	2500		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #48 : Science Lab
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 208
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Bell And Spigot Fittings	2	EA	V9000	Yes

Client: HRCE
Location: #48 : Science Lab
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 208
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	36	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #49 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 209
Last Re-Assessment: 0000-00-00

Area (sqft): 185

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		90(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Interior	Drywall and joint compound			A	Y		550(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #49 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 209
Last Re-Assessment: 0000-00-00

Area (sqft): 185

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Drywall and joint compound	550		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #49 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 209
Last Re-Assessment: 0000-00-00

Area (sqft): 185

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	4	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #50 : Science Lab Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 80

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		80(7)			SF	S0016C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Interior	Drywall and joint compound			A	Y		160(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #50 : Science Lab Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 80

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #51 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 210
Last Re-Assessment: 0000-00-00

Area (sqft): 820

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		820(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1600(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #51 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 210
Last Re-Assessment: 0000-00-00

Area (sqft): 820

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	15	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #52 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 206
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light brown with beige streaks			A	Y		750(7)			SF	S0009C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		750(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #52 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 206
Last Re-Assessment: 0000-00-00

Area (sqft): 750

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	750		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	750		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #52 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 206
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #53 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 205
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light blue with white streaks			A	Y		750(7)			SF	S0010C	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Interior	Drywall and joint compound			A	Y		1100(7)			SF	S0007F	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #53 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 205
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

Client: HRCE
Location: #53 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 205
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	2	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #54 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 204
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		750(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1500(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #54 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 204
Last Re-Assessment: 0000-00-00

Area (sqft): 750

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Drywall and joint compound	1500		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #54 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 204
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #55 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 203
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		750(7)			SF	V0008	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1100(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #55 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 203
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #56 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 202
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		750(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		750(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #56 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 202
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #57 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 201
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		750(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1500(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #57 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 201
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #58 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		55(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound		Wood	A	Y		100(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #58 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	100		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	100		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #58 : Storage
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #59 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 220
Last Re-Assessment: 0000-00-00

Area (sqft): 900

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		800(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		100(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #59 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 220
Last Re-Assessment: 0000-00-00

Area (sqft): 900

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	22	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #60 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		300(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE
Location: #60 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #60 : Boys Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	6	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #61 : Side Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		55(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound		Wood	A	Y		100(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #61 : Side Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	100		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	100		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #61 : Side Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 55

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #62 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Terrazzo			A	Y		300(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF

Client: HRCE
Location: #62 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #62 : Girls Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 300

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	6	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #63 : Janitor Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light brown with brown flecks			B	Y		60(7)			SF	S0026ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #63 : Janitor Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	180		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #63 : Janitor Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture	1	EA	V9000	Yes

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #64 : Breakfast Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 219
Last Re-Assessment: 0000-00-00

Area (sqft): 725

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pink with white streaks			A	Y		725(7)			SF	S0027AC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall	Interior	Drywall and joint compound			A	Y		1500(7)			SF	S0007G	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #64 : Breakfast Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 219
Last Re-Assessment: 0000-00-00

Area (sqft): 725

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #65 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 218
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale green with light streaks			A	Y		750(7)			SF	V0016	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		750(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #65 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 218
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #66 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 217
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light brown with beige streaks			A	Y		750(7)			SF	V0009	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1100(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #66 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 217
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

Client: HRCE
Location: #66 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 217
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Drywall (no Compound)	Y	5	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #67 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 216
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light blue with white streaks			A	Y		750(7)			SF	V0010	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1500(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #67 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 216
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #68 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 215
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		750(7)			SF	V0008	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1500(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #68 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 215
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #69 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 214
Last Re-Assessment: 0000-00-00

Area (sqft): 750

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pink with white streaks			A	Y		750(7)			SF	S0027B	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		750(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #69 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 214
Last Re-Assessment: 0000-00-00

Area (sqft): 750

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	20	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #70 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 212
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with dark brown streaks			A	Y		1100(7)			SF	S0030ABC	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1600(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #70 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 212
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #70 : Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 212
Last Re-Assessment: 0000-00-00

Area (sqft): 1100

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	13	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #71 : Classroom Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 100

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		90(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		200(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #71 : Classroom Entry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 100

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #72 : Washroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 40

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		40(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		120(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #73 : Home Economics Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 211
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		1300(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Other	Sink	Mastic, Gold			A	Y		7(7)			EA	V0014	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1800(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #73 : Home Economics Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 211
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Plaster	800		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	1800		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #73 : Home Economics Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 211
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #73 : Home Economics Classroom
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 211
Last Re-Assessment: 0000-00-00

Area (sqft): 1300

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	21	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #74 : Pantry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		60(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		180(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #74 : Pantry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Drywall and joint compound	180		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #74 : Pantry
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 60

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #75 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 213
Last Re-Assessment: 0000-00-00

Area (sqft): 115

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Wall		Drywall and joint compound			A	Y		50(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #75 : Office
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 213
Last Re-Assessment: 0000-00-00

Area (sqft): 115

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

Client: HRCE
Location: #76 : HVAC Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 220

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		220(7)			SF	V0008	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		450(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #76 : HVAC Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 220

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	100		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	450		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #77 : IT Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 207
Last Re-Assessment: 0000-00-00

Area (sqft): 85

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" pale brown with beige streaks			A	Y		85(7)			SF	V0012	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #77 : IT Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #: 207
Last Re-Assessment: 0000-00-00

Area (sqft): 85

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	1	EA	V0000	

1 - LED

Client: HRCE
Location: #78 : HVAC Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 220

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" light green with green streaks			A	Y		220(7)			SF	V0008	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		450(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #78 : HVAC Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 220

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	100		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	450		SF	V0006	Pale yellow	Pb: 830 mg/kg	Lead (Low)	

Client: HRCE
Location: #78 : HVAC Room
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 220

MOULD									
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould	
Ceiling	Ceiling Tiles (lay-in)	Y	16	SF	V	9500		Presumed	

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #79 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		1200(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1200(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #79 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	3	EA	V9500	Presumed

Client: HRCE
Location: #79 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	14	EA	V0000	

1 - LED

Client: HRCE
Location: #79 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	6	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #80 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 500

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		500(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #80 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 500

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	600		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #80 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 500

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	2	EA	V9500	Presumed

Client: HRCE
Location: #80 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 500

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	7	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #81 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		1200(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF
Wall		Drywall and joint compound			A	Y		1200(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #81 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	3	EA	V9500	Presumed

Client: HRCE
Location: #81 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	14	EA	V0000	

1 - LED

Client: HRCE
Location: #81 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 1200

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	12	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #82 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor		Vinyl Floor Tile and Mastic, 12" beige with light brown flecks			A	Y		800(7)			SF	V0006	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #82 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	200		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #82 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	3	EA	V9500	Presumed

Client: HRCE
Location: #82 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	9	EA	V0000	

1 - LED

Client: HRCE
Location: #82 : Hallway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 800

MOULD								
System	Material	Visible	Quantity	Unit	Sample Type	Sample No	Sample Description	Mould
Ceiling	Ceiling Tiles (lay-in)	Y	4	SF	V	9500		Presumed

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #83 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	Stairs	Terrazzo			A	Y		250(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Drywall and joint compound			A	Y		200(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #83 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	1000		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	200		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #83 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #83 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

CONFIRMED AND PRESUMED HAZARDOUS MATERIALS REPORT

Client: HRCE
Location: #84 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

ASBESTOS																
System	Component	Material	Item	Covering	A*	V*	AP*	Good	Fair	Poor	Unit	Sample	Asbestos Type	Amount	Hazard	Friable
Floor	Stairs	Terrazzo			A	Y		250(7)			SF	V9500	Presumed Asbestos		Presumed Asbestos	NF
Wall		Drywall and joint compound			A	Y		200(7)			SF	V0007	Chrysotile	0.5-5%	Confirmed Asbestos	NF

Client: HRCE
Location: #84 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

PAINT									
System	Item	Good	Poor	Unit	Sample	Sample Description	Amount	Hazard	
Wall	Masonry	1000		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	
Wall	Drywall and joint compound	200		SF	V0009	Tan	Pb: 92 mg/kg	Lead (Low)	

Client: HRCE
Location: #84 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

PB PRODUCTS				
Component	Quantity	Unit	Sample	Hazard
Batteries In Emer. Lights	1	EA	V9500	Presumed

Client: HRCE
Location: #84 : Stairway
Survey Date: 2024-03-05

Site: 88 Belle Vista Drive, Dartmouth, NS
Floor: 1-2

Building Name: Ellenvale Junior High School
Room #:
Last Re-Assessment: 0000-00-00

Area (sqft): 250

MERCURY				
Component	Quantity	Unit	Sample	Hazard
Light Fixture ¹	2	EA	V0000	

1 - LED

Legend:



Sample number		Units		Other	
S####	Asbestos sample collected	SF	Square feet	A	Access
L####	Paint sample collected	LF	Linear feet	V	Visible
P####	PCB sample collected	EA	Each	AP	Air Plenum
M####	Mould sample collected	%	Percentage	F	Friable material
V####	Material is visually identified to be identical to S####	LF	Linear feet	NF	Non Friable material
V0000	Known non hazardous material			PF	Potentially Friable material
V9000	Material visually identified as a Hazardous Material			Pb	Lead
V9500	Material is presumed to be a hazardous material			Hg	Mercury
				As	Arsenic
				Cr	Chromium

Access	
A	Accessible to all building occupants
B	Accessible to maintenance and operations staff without a ladder
C	Accessible to maintenance and operations staff with a ladder. Also rarely entered, locked areas
D	Not normally accessible

Condition	
Good	No visible damage or deterioration
Fair	Minor, repairable damage, cracking, delamination or deterioration
Poor	Irreparable damage or deterioration with exposed and missing material

Visible	
Y	The material is visible when standing on the floor of the room, without the removal or opening of other building components (e.g. ceiling tiles or access panels).
N	The material is not visible to view when standing on the floor of the room and requires the removal of a building component (e.g. ceilings tiles or access panels) to view and access. Includes rarely entered crawlspaces, attic spaces, etc. Observations will be limited to the extent visible from the access points.

Air Plenum	
Yes or No	The material is in a return air plenum or in a direct airstream or there is evidence of air erosion (e.g. duct for heating or cooling blowing directly on or across an ACM). This field is only completed where Air Plenum consideration is required by regulation.

Colour Coding	
	The material is known to contain regulated concentrations of asbestos; either by analytical results or visible identification (use of the V9000 code).
	The material is presumed to contain asbestos; based on visual appearances; typically a material known to historically contain asbestos; however, not sampled due to limited access or the destructive nature of the sampling.

Action					
(1)	Clean up of ACM Debris	(2)	Precautions for Access Which may Disturb ACM Debris	(3)	ACM removal
(4)	Precautions for Work Which may Disturb ACM in Poor Condition	(5)	Proactive ACM removal (Minimum repair required for fair condition)	(6)	ACM repair
(7)	Management program and surveillance				

APPENDIX VII
Photographs



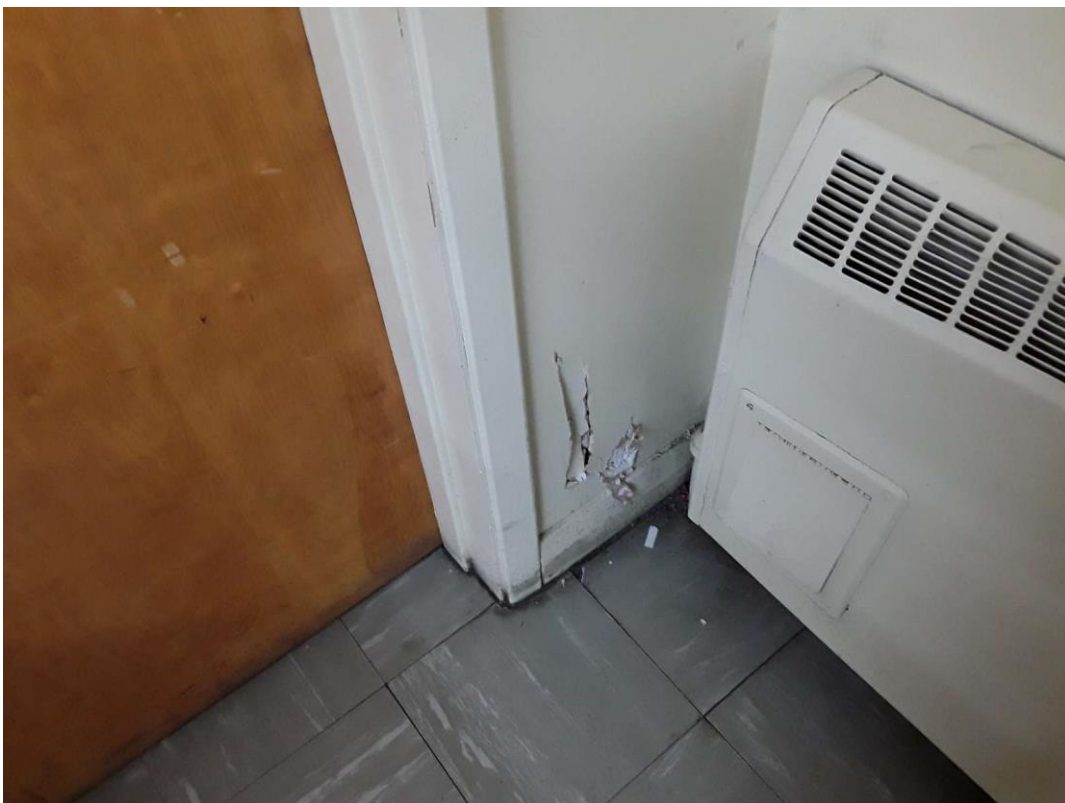
S0003A (Confirmed Asbestos), Piping, Hot Water Heating, Parging Cement, Boiler Room (Location #: 2)
Corner by exterior door



V0003 (Confirmed Asbestos), Piping, Hot Water Heating, Parging Cement, Classroom (Location #: 5)



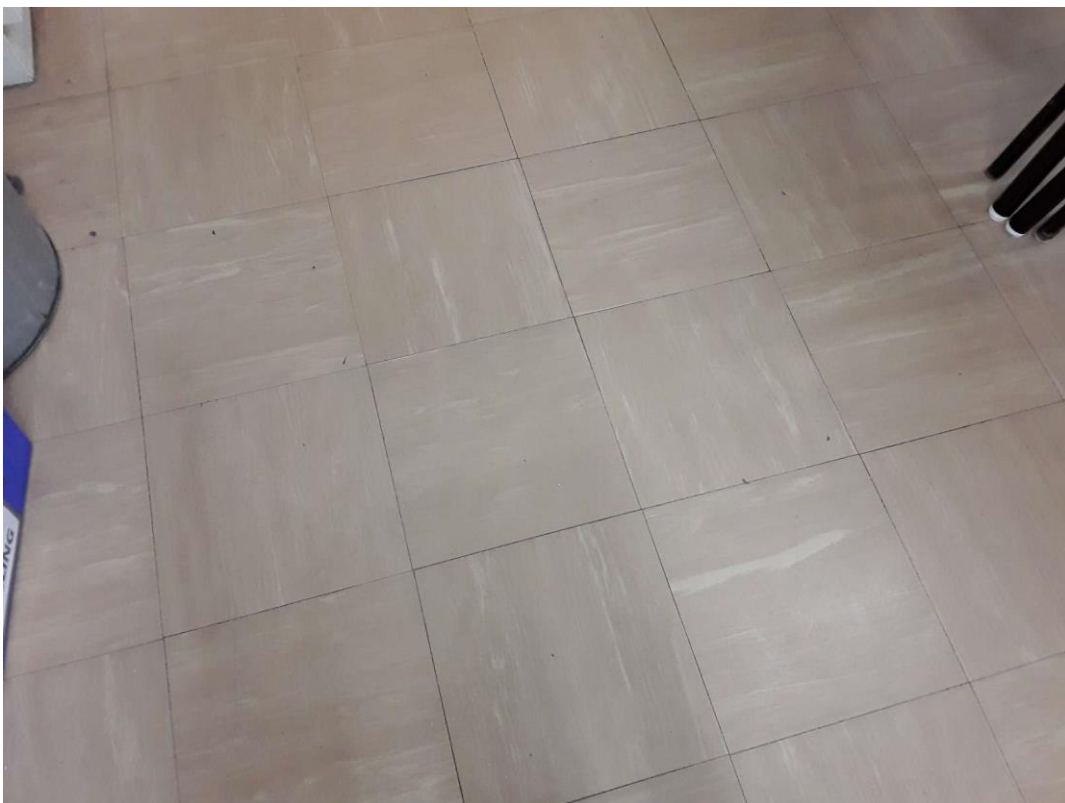
S0006A (Confirmed Asbestos), 12" beige with light brown flecks, Floor, Vinyl Floor Tile and Mastic, Music Room (Location #: 3)



S0007E (Confirmed Asbestos), Wall, Interior, Drywall and joint compound, Science Lab (Location #: 48)



S0008A (Confirmed Asbestos), 12" light green with green streaks, Floor, Vinyl Floor Tile and Mastic, Classroom (Location #: 4)



S0009A (Confirmed Asbestos), 12" light brown with beige streaks, Floor, Vinyl Floor Tile and Mastic, Classroom (Location #: 5)



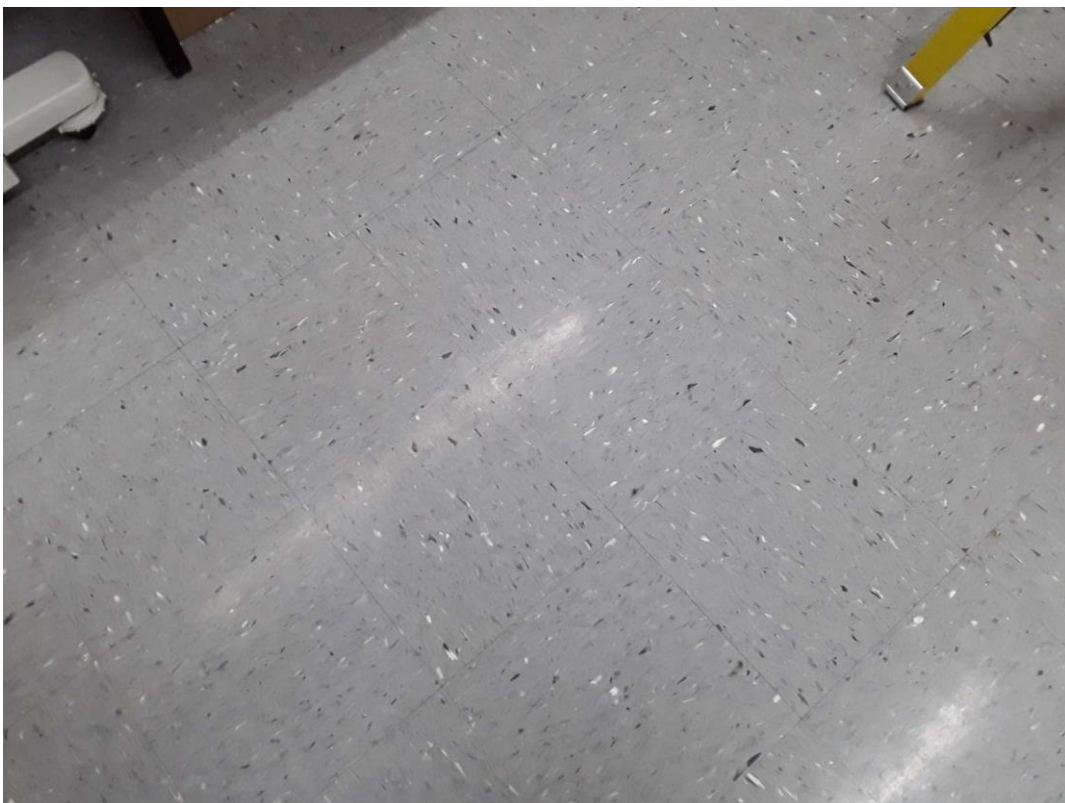
S0010A (Confirmed Asbestos), 12" light blue with white streaks, Floor, Vinyl Floor Tile and Mastic, Office (Location #: 6)



V0011 (Confirmed Asbestos), Piping, Domestic Water (Hot and Cold), Parging Cement, Girls Washroom (Location #: 20)



S0012A (Confirmed Asbestos), 12" pale brown with beige streaks, Floor, Vinyl Floor Tile and Mastic, Janitor Room (Location #: 8)



S0013A (Confirmed Asbestos), 12" pale blue with dark and light flecks, Floor, Vinyl Floor Tile and Mastic, Kitchen (Location #: 10)



S0014 (Confirmed Asbestos), Other, Sink, Mastic, Gold, Kitchen (Location #: 10)



S0015A (Confirmed Asbestos), 12" dark blue with dark flecks, Floor, Vinyl Floor Tile and Mastic, Men's Washroom (Location #: 12)



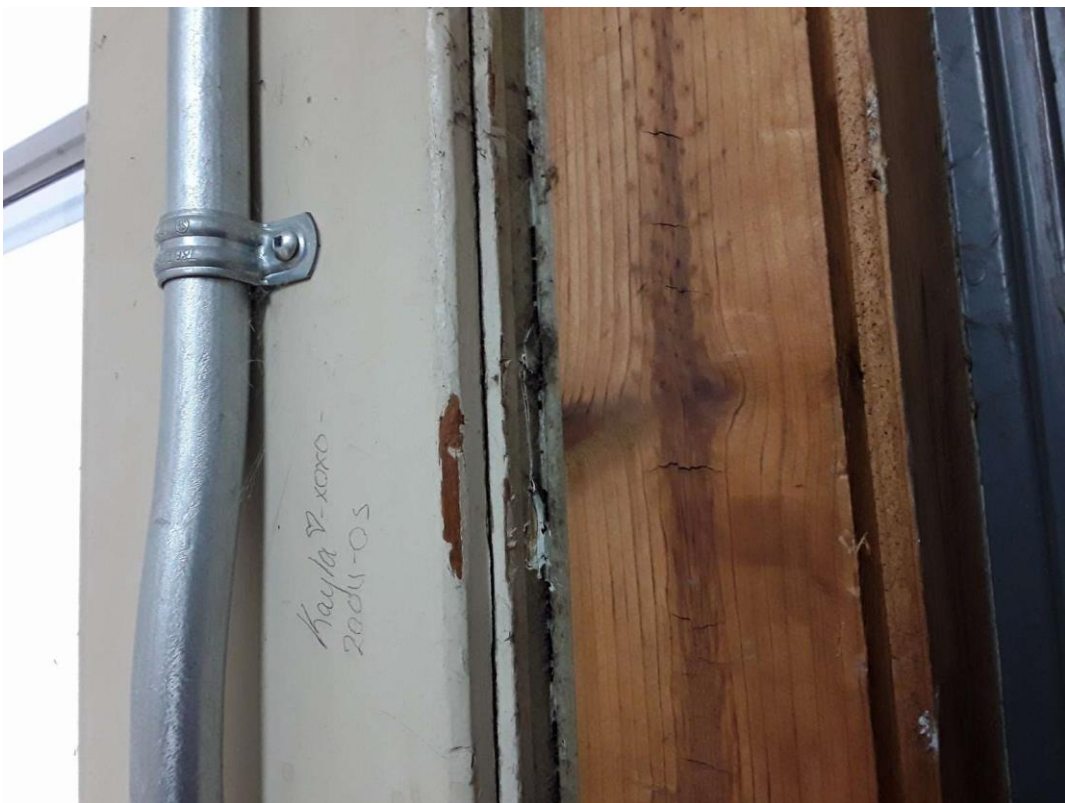
S0016A (Confirmed Asbestos), 12" pale green with light streaks, Floor, Vinyl Floor Tile and Mastic, Library (Location #: 21)



S0017A (Confirmed Asbestos), 12" cream with brown streaks, Floor, Vinyl Floor Tile and Mastic, Classroom (Location #: 25)



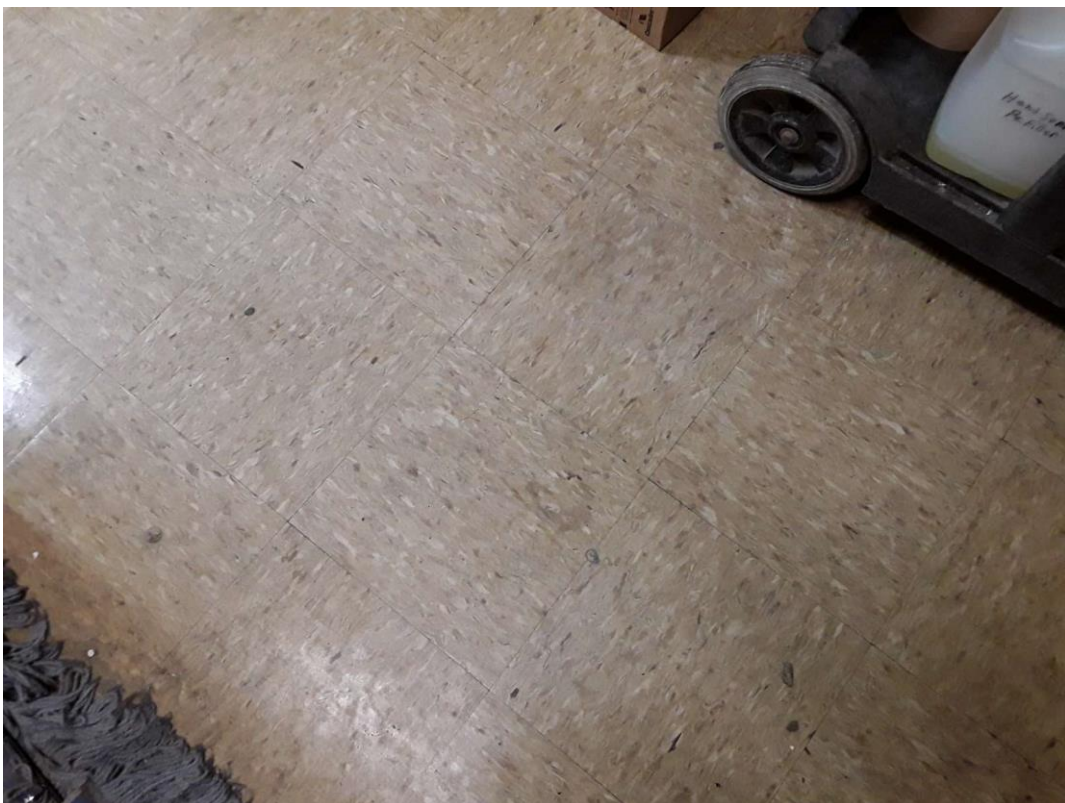
S0018B (Confirmed Asbestos), 12" tan, Floor, Vinyl Floor Tile and Mastic, Lumber Storage (Location #: 35)



S0019A (Confirmed Asbestos), Light grey caulking, door frame, Lumber Storage (Location #: 35)



S0021A (Confirmed Asbestos), 12" light grey with white streaks, Floor, Vinyl Floor Tile and Mastic, Band Room (Location #: 39) Under sink



S0026A (Confirmed Asbestos), 12" light brown with brown flecks, Floor, Vinyl Floor Tile and Mastic, Janitor Room (Location #: 63)



S0027A (Confirmed Asbestos), 12" pink with white streaks, Floor, Vinyl Floor Tile and Mastic, Breakfast Room (Location #: 64)



S0030A (Confirmed Asbestos), 12" beige with dark brown streaks, Floor, Vinyl Floor Tile and Mastic, Classroom (Location #: 70)



V9500 (Presumed Asbestos), Wall, Cement Product, Exterior (Location #: 1)
Visible during the assessment because of a missing panel of metal cladding.



V9500 (Presumed Asbestos), Ceramic tile thinset, Floor, Mortar, Men's Washroom (Location #: 12)



V9500 (Presumed Asbestos), Floor, Terrazzo, Boys Washroom (Location #: 19)



V9500 (Presumed Asbestos), Ceiling, Ceiling tiles (glue-on), Gymnasium (Location #: 26)



V9500 (Presumed Asbestos), Ceramic tile thinset, Wall, Mortar, Boys Change Room (Location #: 31)



V9500 (Presumed Asbestos), Ceramic tile thinset, Floor, Mortar, Hallway (Location #: 47)



V9500 (Presumed Asbestos), Other, Countertop, Bakelite, Science Lab (Location #: 48)



L0001 (Lead, Low), Grey, Structure, Exterior (Location #: 1)



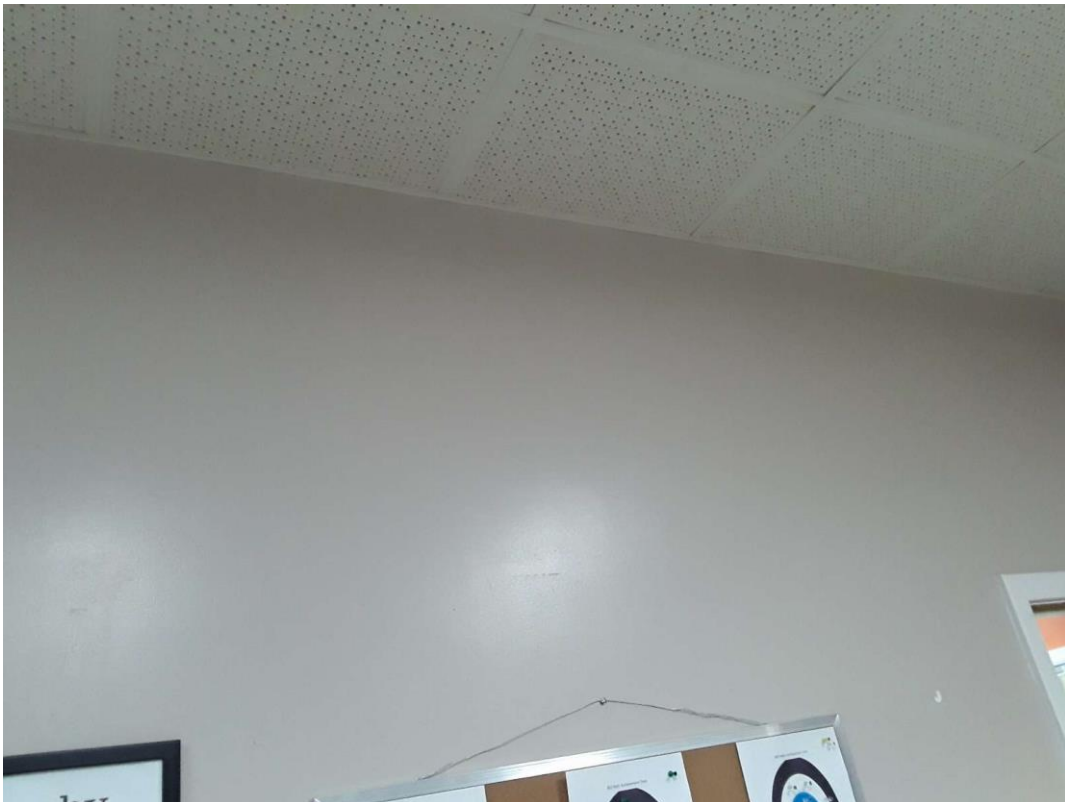
L0002 (Lead, Low), White, Other, Exterior (Location #: 1)



L0003 (Lead, Low), Grey/red, Floor, Boiler Room (Location #: 2)



L0006 (Lead, Low), Pale yellow, Wall, Kitchen (Location #: 10)



L0007 (Lead, Low), Pale pink, Wall, Principal Office (Location #: 16)



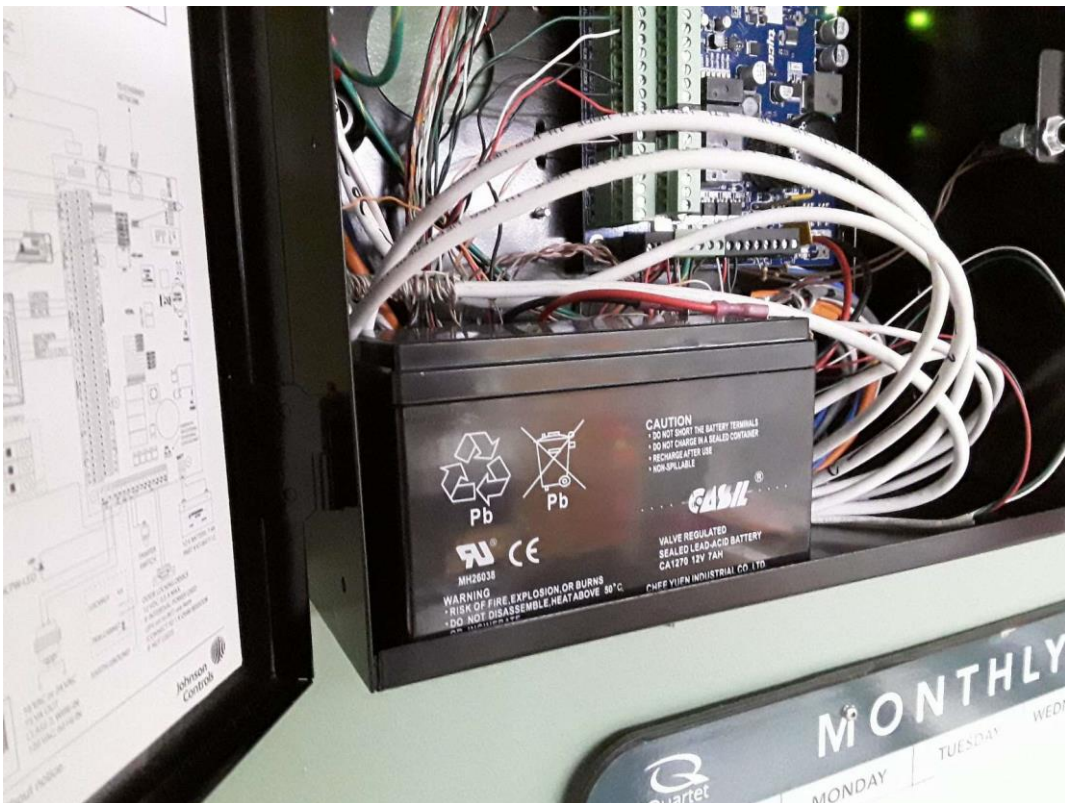
L0009 (Lead, Low), Tan, Wall, Wood Shop Entry (Location #: 37)



L0010 (Lead, Low), Pale green, Wall, Gym Office (Location #: 29)



Lead Products, V9000(Yes), BELL AND SPIGOT FITTINGS, Music Room (Location #: 3)



Lead Products, V9000(Yes), BATTERIES (OTHER), Secretary Office (Location #: 14)



Lead Products, V9500(Presumed), BATTERIES IN EMER. LIGHTS, Gymnasium (Location #: 26)



Lead Products, V9500(Presumed), BATTERIES IN EMER. LIGHTS, Hallway (Location #: 47)



Lead Products, V9000(Yes), BATTERIES (OTHER), Hallway (Location #: 47)



Halifax
Regional Centre for Education

FINAL
Asbestos
Management Program
HRCE Facilities

Prepared for:

**Halifax Regional Centre for
Education**
33 Spectacle Lake Drive
Dartmouth, Nova Scotia B3B 1W8

August 28, 2023

Pinchin File: 322126.000



IMPORTANT CONTACTS

HRCE and Facility Management Contacts

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AMP Facilitator Back-up	Kavita Khanna	902.237.0247,	kkhanna@HRCE.ca
After hours emergency reporting	After hours manager on call	902.493.5110	

Pinchin Contacts

Contact Name	Phone	Email
Jackson Munro	902.220.7203	jmunro@pinchin.com
After Hours Emergency Line	1.800.577.2653	

Approved Abatement Contractors

Company	Contact Name	Phone	Email
First On Site	Jason Kerrivan	902.434.7199	jkerrivan@firstonsite.ca



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APPENDIX A	Letter of Notification to Tenants Regarding Asbestos in Premises
APPENDIX B	Contractor Notification and Acknowledgement Form
APPENDIX C	Response to Disturbance of Asbestos
APPENDIX D	Asbestos Project Work Record
APPENDIX E	Reassessment of ACM
APPENDIX F	Classifications of Abatement Work
APPENDIX G	Site Specific Report(s)
APPENDIX H	Site Specific Contacts



1.0 INTRODUCTION

Halifax Regional Centre for Education (HRCE) is committed to protect the health and safety of workers and occupants. This Asbestos Management Program (AMP) has been developed to meet responsibilities as an employer, and as a building owner to manage operational issues respecting asbestos and to maintain compliance with applicable regulations for disturbance of asbestos-containing materials (ACM) during demolition, renovation, alteration, maintenance, repair or other activities.

2.0 SCOPE

The AMP provides information and procedures for Asbestos Management of all HRCE owned or occupied facilities in Nova Scotia.

The AMP applies to all HRCE staff as well as all service providers and contractors performing work in HRCE facilities.

The AMP outlines requirements for HRCE personnel involved in acquisition of property which may contain ACM. It applies to all categories of property with the exception of vacant lands. If HRCE decides to lease property in the future ACM should be considered when developing their lease agreement and this AMP should be amended to address leased properties occupied by the HRCE.

The AMP is a management system to control the disturbance of ACM during demolition, renovation, alteration, maintenance, repair or other activities.

The AMP incorporates the following elements:

- Asbestos Assessments and Reassessments.
- Regulatory Requirements and HRCE Policies.
- Roles and Responsibilities.
- Notifications.
- Training Requirements.
- Emergency Reaction and Procedures.
- Record Keeping.
- Contractor Requirements.

3.0 OBJECTIVE

The AMP is a management system primarily intended to identify ACM and control disturbance of ACM by using proper procedures during demolition, renovation, alteration, maintenance, repair or other activities. The objective in preparing and instituting this AMP is to ensure that known or suspected ACM is managed



so that maintenance staff, construction workers and occupants are safeguarded in accordance with applicable regulations.

4.0 BACKGROUND INFORMATION AND HEALTH EFFECTS

The following is a very brief summary of the hazards and health effects from asbestos exposure:

- Occupational exposure to asbestos can cause fatal lung disease.
- Asbestos must become airborne and be inhaled to be hazardous. A physical disturbance or direct contact with ACM is required to cause it to become airborne. The mere presence of asbestos is not hazardous.
- Asbestos may remain in buildings so long as it is in good condition and undisturbed. No Provincial or Federal Regulations require the removal of ACM as long as it is enclosed, encapsulated or managed appropriately and removed prior to building demolition.

5.0 REGULATORY REQUIREMENTS AND HRCE POLICIES

5.1 Regulatory Requirements

This AMP was implemented in response to the following legislation in effect as of August 28, 2023.

All building operations, whether performed by HRCE, or service providers, shall adhere to the requirements outlined in this document and all applicable regulations, guidance documents and acceptable professional standards.

The following regulations and guidelines were in place at the time this AMP was prepared:

1. Occupational Health and Safety Act, N.S. Reg. 52/2013.
2. A Guide to Removal of Friable Asbestos-Containing Material.
3. A Guide to Assessment and Management of Asbestos in the Workplace.
4. Asbestos Waste Management Regulations, N.S. Reg. 53/95

6.0 HRCE POLICIES RELATED TO ASBESTOS

HRCE has established the following policies related to asbestos independent of applicable regulations:

- HRCE may opt for removal of ACM with minor damage as opposed to repair or encapsulation when cost-effective unless removal is not practicable. ACM with major damage must be removed.
- At existing leased properties where HRCE is a tenant, when ACM is discovered during any improvement, addition, renovation, demolition, maintenance, repair of any kind, or at



any other time, the Owner (Landlord) shall promptly remove the ACM from the leased premises, if possible within the existing lease agreement.

- HRCE may perform Low Risk asbestos operations, where appropriately trained to perform the work.
- All Moderate and High asbestos operations must be undertaken by an Asbestos Abatement Contractor. Asbestos Abatement Contractors may also perform Low Risk asbestos operations.

7.0 ASBESTOS-CONTAINING MATERIALS AT HRCE FACILITIES

Refer to the individual Asbestos Assessment or subsequent Asbestos Reassessment Reports prepared for the Facility, provided in Appendix G. In some cases, Hazardous Materials Assessment or Designated Substance Survey Reports have been prepared and these reports include information regarding asbestos and other hazardous materials (e.g. lead, mercury, silica, and PCBs).

All assessment reports or subsequent Asbestos Reassessment Reports have been, or will be, prepared to comply with applicable asbestos regulations and this AMP.

Asbestos Assessment Reports are key components of this AMP, as the reports define the locations of ACM and Presumed ACM (PACM) present in the facility, the condition of ACM, the friability, the type of asbestos and the approximate quantity.

7.1 Asbestos Assessments

Refer to the Asbestos Assessment or Hazardous Building Materials Assessment Report in Appendix G for further information on the methodology of the assessment(s) completed for the Facility.

HRCE will engage a Consultant to perform asbestos assessments for all facilities. The report is to be completed following a methodology compliant with applicable regulations and acceptable professional standards. The report must comment on the condition of the ACM, include recommendations for remedial action, and is to include the risk classification for any abatement required.

In facilities which are leased, copies of the initial asbestos assessment, and any subsequent reassessments, shall be provided by the Owner to HRCE, and maintained on Site, or HRCE will have an asbestos assessment report prepared and complete subsequent reassessments, limited to the leased space.

7.2 Reassessment of ACM

All ACM and PACM identified in the Facilities will be inspected at reasonable intervals, and at minimum annually, a reassessment of all ACM and PACM will be completed with written documentation.



The reassessment of ACM and PACM will be completed by a Consultant (Qualified Person) or HRCE staff, using the form provided in Appendix E.

7.2.1 Reassessment in Unassessed Areas

Where assessments have been completed in only a portion of schools, all non-sampled materials (including but not limited to ceiling tiles, vinyl floor tiles, vinyl sheet floor, etc.) are to be presumed to contain asbestos, and reassessed during their yearly inspection of the suites.

When feasible, arrangements should be made to access previously unassessed areas during the annual reassessments. If during any annual or other inspections, materials not previously sampled are found to be damaged (spalling finishes, debris, etc.), samples are to be collected and the material is to be identified as asbestos or non-asbestos. Remedial action and removal procedures are to be decided accordingly if the materials are found to contain asbestos.

7.3 Distribution of Assessment and Reassessment Reports

HRCE will ensure that each assessment and reassessment report is distributed or accessible to the following:

- HRCE JOHSC and/or Occupational Health and Safety Representative (OHS Representative).
- A hard copy will be sent to each facility. Electronic copies will be made available.
- Building Operators, Maintenance Personnel, Janitorial Staff.
- Project Managers or Construction Managers planning or performing work in a HRCE Building.
- Outside contractors that could potentially disturb ACM through their work.

8.0 PRE-CONSTRUCTION HAZARDOUS BUILDING MATERIALS ASSESSMENT

Prior to the commencement of any work that requires renovation, construction or demolition, the Facility or specific areas of the Facility to be impacted by the work shall be assessed for ACM, as well as other hazardous building materials (e.g. lead, mercury, silica, and PCBs), (the “**Pre-Construction Hazardous Building Materials Assessment**”).

The Pre-Construction Hazardous Building Materials Assessment must be performed by a Consultant and include destructive or intrusive testing of enclosed areas.

Sampling may include the following:



- Prior to disturbance of materials presumed to contain asbestos listed in the assessment reports, collect samples of materials that were not previously sampled/identified (refer to Asbestos Assessment Report or Hazardous Materials Report).
- Unidentified suspect materials that were not sampled during the initial survey, but which may be present located within enclosed areas such as pipe/duct insulations in ceiling spaces, chases or shafts. If such areas will be affected by the work, entry to these areas and sampling of suspect materials shall be performed.
- Assessment of existing visible floor, wall and ceiling finishes to assess and sample concealed finishes (e.g., vinyl flooring under carpet or other vinyl flooring, drywall over plaster, etc.)
- Other hazardous building materials shall be sampled and analyzed or identified prior to disturbance as required by provincial regulatory requirements. Other hazardous building materials may include lead, mercury, silica, polychlorinated biphenyls, mould, etc.

Upon receiving the Pre-Construction Hazardous Building Materials Assessment report, if asbestos and/or other hazardous building materials are present in the area, specifications (large scale projects) or a scope of work (small scale projects) for removal shall be prepared, provided, and reviewed by the Constructor or contractor prior to any renovation, construction, or demolition work.

HRCE will employ an Abatement Contractor to perform abatement of other hazardous materials and/or ACM that may be disturbed by construction, renovation, or demolition work using appropriate regulated procedures.

9.0 REMEDIAL WORK – DAMAGED MATERIALS

Where damage is observed, HRCE will refer to the existing Asbestos or Hazardous Building Materials Assessment or subsequent Asbestos Reassessment Reports (as required) to determine if the damaged materials are ACM or PACM.

Where damaged suspected asbestos-containing materials are not included in the existing Asbestos or Hazardous Building Materials Assessment Report(s), an assessment and/or sampling of these damaged materials must be conducted prior to repair of damage, unless materials are treated as ACM, and appropriate asbestos operations are followed.

If damaged materials contain asbestos and the regulated abatement procedure to be used is not detailed in the recommendations section of the existing Asbestos or Hazardous Building Assessment Materials report, HRCE will contact a Consultant to determine applicable asbestos abatement procedures and to develop a scope of work and performance specifications, as required.



HRCE will employ an Abatement Contractor to perform the remedial work required (removal of damaged ACM) and a Consultant to perform inspection and air monitoring as soon as practicable upon receiving the report/notice of damage.

10.0 NOTIFICATION

10.1 Notification to Occupants

HRCE will inform the JOSHC of any planned sampling, assessment or abatement work that is to be conducted within the applicable HRCE building(s) to ensure that all aspects of committee involvement are complied with.

Tenants must be notified of ACM in their leased space and in common areas of the building that they have access to and may disturb the ACM.

HRCE will notify all new tenants of the presence of ACM in the space they are occupying. Notification is to be completed prior to occupancy via the tenant lease agreement.

Upon institution of this AMP, and upon completion of asbestos assessments in a recently assessed or recently purchased property, where tenants have not been notified via their lease agreement, HRCE will notify occupants of the presence of asbestos in the space they are occupying.

10.2 Notification of Contractors

Contractors that perform work which may disturb ACM within the Facility must be notified of the presence of asbestos (by providing the Asbestos or Hazardous Building Materials Assessment Report). Notification will be sent to these parties prior to project or maintenance work (e.g. janitorial, telephone, cable, etc.).

Contractors are to inform all sub-trades of the presence of all ACM or PACM identified in the work area and include this information in their respective contract agreement.

If suspect ACM not identified in the contract agreement is discovered during the course of the work, the Contractors are to stop all work which might disturb the suspect ACM and notify the appropriate HRCE personnel (i.e. Property Manager and/or Project Manager as applicable) or Constructor, as the case may be.

Prior to performing work, contractors must complete and return the Contractors Notification Package (Appendix B) and HRCE will maintain acknowledgement forms from these packages.

10.3 Notification of Maintenance Personnel

HRCE will inform their own staff that will perform janitorial work, maintenance work or project work of the presence of asbestos in the Facility in which they are working. This will be completed by providing access



to the AMP and the most recent Asbestos Assessment or Hazardous Building Materials Assessment Report and training.

10.4 Notification of Project Managers, Architects and Engineers

HRCE will inform their project managers, architects and engineers of the presence of asbestos in the facility in which they are arranging for or planning work. This will be completed by providing access to the AMP, and the most recent Asbestos Assessment or Hazardous Building Materials Assessment Report.

10.5 Notification of Authorities Having Jurisdiction

Regulations in place at the time of this AMP development do not require notifications regarding asbestos-containing materials, except for:

- A major release of a hazardous substance (per Section 63 of the Occupational Health and Safety Act).

11.0 TRAINING REQUIREMENTS

HRCE will employ a Consultant to ensure staff have received appropriate training.

HRCE employees which will not undertake asbestos abatement work or will not disturb asbestos may be provided training including the following:

- Health effects of asbestos exposure.
- Overview of the existence of applicable regulations and risk classification.
- Identification of common types of ACM (so as to not disturb them).
- Understanding a typical asbestos survey report.
- Their responsibilities under the policies in this AMP and Regulations.

HRCE employees will undertake asbestos abatement work shall receive training including the following:

- Health effects of asbestos exposure.
- Applicable regulations and risk classification.
- Identification of common types of ACM.
- Asbestos Work Procedures limited to Low Risk Operations.
- Understanding a typical asbestos survey report.
- Their responsibilities under the policies in this AMP and Regulations.

HRCE will maintain a record of training of their employees.



HRCE requires all service providers, contractors, etc. to provide appropriate training to all workers who perform work in HRCE Facilities which will, or potentially may, disturb ACM.

12.0 RESPONSE TO DISTURBANCE OF ASBESTOS, PROCEDURES AND CONTACTS

HRCE staff and contractors may encounter fallen material that is suspected confirmed to contain asbestos or uncover a material that was previously unidentified and is suspected to contain asbestos. HRCE staff and contractors shall follow the protocol “Response to Disturbance of Asbestos” in Appendix C.

13.0 CLASSIFICATION OF ABATEMENT WORK

Refer to Appendix F for the classification of asbestos work.

14.0 INSPECTION AND AIR MONITORING OF ASBESTOS WORK

14.1 Visual Inspection

The primary method of ensuring compliance when conducting asbestos removal or abatement work is visual inspection of the site and work practices by a Competent Worker or Asbestos Consultant.

14.2 Air Monitoring During Asbestos Work

Per the “Asbestos in the Workplace: A Guide to the Removal of Friable Asbestos Containing Material” dated November 21, 2013:

- During the removal of friable asbestos-containing materials, where a Glove Bag is not used, and the air from the enclosure is exhausted inside the building, daily air sampling is required outside the enclosure.
- At the completion of removal of friable asbestos-containing materials, clearance air sampling must be performed prior to dismantling of the site isolation and engineering controls.

Air sampling above the regulatory requirements may be performed, as identified in the following sections.

Air monitoring and analysis during asbestos removal or abatement will be performed using Phase Contrast Microscopy (PCM) following the NIOSH 7400 method. PCM air samples must be submitted for analysis to a laboratory participating in a recognized quality control program such as the AIHA Asbestos Analysts Testing (AAT) Program or the Quality Control Program of the IRSST (the Institut de recherche Robert-Sauvé en santé et en sécurité du travail).



The PCM method does not characterize the types of fibres present. In cases where elevated fibre concentrations are identified, or the actual asbestos concentration is required, Transmission Electron Microscopy following the NIOSH 7402 method may be used.

The acceptable limit for PCM samples is as follows:

- as low as reasonably achievable (ALARA) outside the work area, and/or 0.01 fibres/cubic centimetre (f/cc).
- 0.01 f/cc for clearance air sampling.

Where TEM analysis is performed, the acceptable limits would be 0.01 asbestos fibres/cubic centimeter.

14.3 Low Risk – Inspection and Air Monitoring

14.3.1 Inspection

The Project Manager, an assigned Competent Worker, or an Abatement Consultant, will inspect the work upon completion of work to ensure all ACM has been removed and the area adequately cleaned of dust and debris.

14.3.2 Air Monitoring

Air monitoring is not required; however, projects may be evaluated on a case by case basis, and air sampling performed where desired.

14.4 Moderate Risk and Glove Bag – Inspection and Air Monitoring

14.4.1 Inspection

An Abatement Consultant will perform daily inspections throughout the abatement, and inspect the work upon completion of work to ensure all ACM has been removed and the area adequate cleaned of visible dust and debris. Upon completion of inspection and air monitoring (if required) by the Abatement Consultant, the site isolation may be dismantled.

The Project Manager or an assigned Competent Worker may inspect for final cleanliness after the site isolation has been dismantled.

14.4.2 Air Monitoring

PCM air monitoring will be conducted daily and at completion of abatement. Air monitoring will be conducted in occupied areas adjacent to the Asbestos Work Area or Glove Bag Work Area during contaminated work.



PCM air monitoring will be used for air clearance within the Asbestos Work Areas prior to re-occupancy. Where enclosures have been constructed to define the Asbestos Work Area, aggressive clearance air sampling will be performed.

14.5 High Risk – Inspection and Air Monitoring

14.5.1 Inspection

An Abatement Consultant will perform daily inspections throughout the abatement, and inspect the work upon completion of work to ensure all ACM has been removed and the area adequately cleaned of visible dust and debris. Upon completion of inspection and air monitoring by the Consultant, the site isolation may be dismantled.

The Project Manager or an assigned Competent Worker may inspect for final cleanliness after the site isolation has been dismantled.

14.5.2 Air Monitoring

PCM air monitoring will be conducted on a daily basis.

Air monitoring will be conducted at the perimeter of the Asbestos Work Area (in occupied areas adjacent to the Work Area) to ensure no leakage from the enclosure.

Aggressive clearance air monitoring must be performed within the Asbestos Work Areas. Where PCM samples fail to meet the 0.01 f/cc criteria:

- Contractors may be requested to reclean the Asbestos Work Areas, or;
- Transmission Electron Microscopy (TEM) may be used.

Once the clearance air testing is satisfactory:

- a. The site isolation and engineered controls may be removed.
- b. A copy of the air sample report is to be:
 - a. provided and maintained on site by the Contractor, when abatement work is part of a project;
 - b. provided to the Owner, and a copy is kept on file;
 - c. provided to the JOHSC or the OHS representative, if any, for the workplace and for the building



15.0 RECORD KEEPING AND DOCUMENTATION RETENTION

HRCE will keep the following records:

- Asbestos and / or Hazardous Building Materials Assessment Reports.
- Reassessment Reports.
- Tenant Notification Letters and dates posted or transmitted.
- Contractor Notification Packages and Acknowledgement Forms.
- Asbestos Project Work Records.
- Consultant Asbestos Abatement Completion Reports (including Daily Inspection and Air Monitoring Reports).
- Bulk sample analytical results from any sampling.
- Emergency response project records.

16.0 CONSULTANT QUALIFICATIONS

Consultants employed by HRCE for asbestos work are to meet the following minimum requirements:

- Display competency in asbestos and hazardous materials consulting
- Maintain a health and safety management system that meets provincial standards.
- Maintain a Comprehensive General Liability Policy, with a minimum of \$5,000,000 in coverage.
- Maintain an Errors and Omissions Policy, with a minimum of \$5,000,000.
- Maintain an Automobile or Fleet Policy, and Non-Owned Automobile Policy with a minimum of \$2,000,000 in coverage.
- Maintain valid provincial worker's compensation coverage
- Accredited to analyze PCM air samples or use an accredited laboratory.

17.0 ASBESTOS ABATEMENT CONTRACTOR QUALIFICATIONS

Contractors employed by HRCE are to meet the following minimum requirements:

- Maintain a Comprehensive General Liability Policy, provided on an "occurrence" basis, for a minimum of \$5,000,000 in coverage.
- Maintain an Asbestos Liability or Contractors Pollution Liability Policy, provided on an "occurrence" basis, with a minimum of \$5,000,000 in coverage.



- Maintain an Automobile or Fleet Policy, and Non-owned Automobile Policy with a minimum of \$2,000,000 in coverage.
- Maintain valid provincial worker's compensation coverage.
- All supervisors and workers performing abatement work are to be trained in the procedures being used, health effects or asbestos, applicable personal hygiene procedures, personal protection equipment used and respirator care.
- All workers are to be fit tested for respirators.
- Maintain a health and safety management system that meets provincial standards.

18.0 MAINTENANCE AND JANITORIAL WORK

HRCE personnel and contracted janitorial staff will not:

- Sweep/vacuum in areas of damaged ACM.
- Sweep/vacuum/remove ACM debris.
- Disturb ACM.
- Remove ACM.

HRCE will employ an Abatement Contractor to perform these tasks, where required.

Alternately, HRCE will employ the appropriately trained trade contractor if there is other work to be completed that will disturb ACM (e.g. installing electrical equipment through an asbestos-containing plaster wall).

19.0 MAINTENANCE OF THE AMP

This AMP is to be re-evaluated, and possibly revised, each time there is a substantial change to the any provincial regulation, or policy change. This AMP must be reviewed at least annually and updated as necessary.

20.0 ROLES AND RESPONSIBILITIES

This section defines the roles and responsibilities of HRCE personnel instituting this AMP and provide effective management of ACM at their facilities.

The AMP Facilitator has the primary responsibility to administer the AMP and ensure it is instituted and effective.

The following table summarizes the responsibilities of HRCE personnel:



Reference No.	Responsibility/Task	AMP Section Reference	AMP Facilitator	Facility Manager	Project Team	Client Staff	Consultant
1	Maintenance of the AMP	19.0	X				
2	Employ a Consultant to prepare Asbestos Assessment Reports for any facility where one is not available/prepared	7.1	X	X			
3	Employ a Consultant to prepare Asbestos Assessment Reports in newly purchased facilities	7.1	X	X			
4	Employ a Consultant to reassess facilities where ACM has been confirmed	7.2	X	X			
5	Distribute Asbestos Assessment and Reassessment Reports	7.3	X				
6	Upon receiving assessment and reassessment reports, employ a contractor to perform remedial abatement work to remove damaged ACM. Use applicable provincial procedures	9.0	X	X			
7	As required, prior to performing asbestos work, engage a Consultant to perform inspection and air monitoring	14.0	X	X	X		
8	Ensure that an intrusive pre-construction assessment for ACM is performed prior to any renovation, alteration or demolition	8.0		X	X		X
9	Conduct bulk sampling of suspect materials that have not been sampled or presume the materials to be an ACM	8.0		X	X		X
10	Employ a Consultant (as applicable) to prepare a scope of work prior to large scale abatement as part of construction, renovation or demolition.	9.0		X	X		
11	Provide existing occupants at the outset of this AMP, or occupants in newly purchased facilities, a letter notifying the lessee of ACM within their space, and instruction not to disturb the ACM.	10.1	X	X			



Reference No.	Responsibility/Task	AMP Section Reference	AMP Facilitator	Facility Manager	Project Team	Client Staff	Consultant
12	Ensure all Project Managers, Architects, Engineers and others arranging for, or planning, work in the Facility are provided with the most current asbestos (re)assessment report.	10.4	X	X	X	X	
13	Provide contractors working in HRCE facilities the most current asbestos information and notification via the Contractor Information Package	10.2		X	X	X	
14	Employ a Consultant to train HRCE personnel	11.0	X				
15	Response to an uncontrolled spill or disturbance of asbestos following emergency procedures in Appendix C	12.0	X	X	X	X	
16	Keep all records as required by this program (excepting contractor package acknowledgement)	15.0	X				
17	Keep records of contractor package acknowledgement for each project (contractors to submit via email and keep record)	15.0	X	X	X		
18	Ensure Consultants meet the required qualifications	16.0	X	X	X		
19	Ensure contractors meet the required qualifications	17.0		X	X		X
20	Ensure maintenance and janitorial work is performed so that it does not disturb ACM and unnecessary disturbance of ACM is avoided	18.0				X	
21	Report any unplanned disturbance to ACM or damage to ACM	12.0	X	X	X	X	

\\plfs01\Jobs\322000s\0322126.000 HRCE, Various Sites Halifax, NS, HAZ, Asbestos\Deliverables\322126 AMP HRCE Schools NS HRCE Aug 28 2023.docx
 Master Template for Asbestos Management Program, HAZ, ON Only, February 19, 2020

GLOSSARY

Amended Water	Water with wetting agent added for purpose of reducing surface tension to allow thorough wetting of ACM.
Asbestos-Containing Material(s) (ACM)	Material identified by an appropriate laboratory analytical method (e.g. EPA 600/R-93/116, NIOSH 9000, or NIOSH 9002) to contain at least 0.5% of any type of asbestos, and vermiculite that is identified to contain any amount of asbestos using EPA method 600/R-04/004 if other analytical methods do not identify the presence of asbestos.
Asbestos	Any and all types of asbestos (generally considered as Actinolite; Amosite; Anthophyllite; Chrysotile; Crocidolite; Tremolite, and Libby Amphibole).
Asbestos Work Area	Area where work is being performed which will or may disturb ACM including overspray and fallen material or settled dust that may contain asbestos.
Competent Worker	In relation to specific work, means a worker who, <ul style="list-style-type: none"> • qualified because of that person's knowledge, training and experience to do the assigned work in a manner that will ensure the health and safety of every person in the workplace; and • knowledgeable about the provisions of the Occupational Health and Safety Act and regulations that apply to the assigned work, and the potential or actual danger to health or safety associated with the assigned work.
Encapsulation	The application of a liquid sealant to asbestos-containing materials; the sealant may penetrate and harden the material (penetrants) or cover the surface with a protective coating (bridging sealants). Also called encasement. This is generally not advisable.
Enclosure	Enclosure of ACM means the construction of solid enclosure (walls, ceiling, bulkhead etc.) around ACM, or An Enclosure means the site isolation including hoarding walls, polyethylene sheeting and seals that isolates an Asbestos Work Area.
Friable Material	Material that: when dry, can be crumbled, pulverized or powdered by hand pressure, or is crumbled, pulverized or powdered. Includes previously non-friable asbestos-containing material that has become damaged to the extent that it may be crumbled, pulverized, or reduced to powder by hand pressure.
Glove Bag Removal	A method of removing friable insulation from a piping system using a prefabricated bag which isolates the section of insulation being removed.
HEPA Filter	High Efficiency Particulate Aerosol filter that is at least 99.97 percent efficient in collecting a 0.3 micrometre aerosol.
HEPA Filtered Negative Pressure Unit:	Portable air handling unit which extracts air directly from the Asbestos Work Area and discharges the air to the exterior of the building after passing through a HEPA filter.



JOHSC	Joint Occupational Health and Safety Committee.
Phase Contrast Microscopy (PCM)	A method which uses an optical microscope to determine airborne fibres, normally in an occupational setting. Results are presented as a number of fibres per cubic centimetre (f/cc). The method of analysis is based on the US National Institute for Occupational Safety and Health (NIOSH) Manual of Analytical Methods, Method 7400, issue 2, Asbestos and Other Fibres by PCM (August 15, 1994).
Transmission Electron Microscopy (TEM)	A method which uses an electron microscope to determine airborne asbestos fibres. Results are presented in fibres per cubic centimetre of air (f/cc). The method of analysis is The U.S. National Institute of Occupational Safety and Health (NIOSH) Manual of Analytical Methods, Method 7402, Issue 2: Asbestos by TEM (Aug 15, 1994).
Low, Moderate and High Procedures	Work classifications and procedures defined under provincial health and safety regulations.
US EPA	United States Environmental Protection Agency.

APPENDIX A

Letter of Notification to Tenants Regarding Asbestos in Premises



LETTER OF NOTIFICATION TO TENANTS REGARDING ASBESTOS IN PREMISES

The following wording should be utilized in communicating the presence of asbestos to a tenant or lessee.

To Occupant

This letter is being provided as notification of the presence of asbestos within the building at [building name and/or address]. HRCE has recently had an asbestos assessment performed of the entire building and has established a program to manage all asbestos in a safe and prudent fashion.

Our Consultant inspected all areas of the building and made recommendations, where necessary, for removal or repair of asbestos. All such work [has been completed/will be completed shortly] with appropriate inspection and supervision. All asbestos remaining is subject to the Asbestos Management Program (AMP) as required by Provincial Regulations and our own due diligence. A copy of the assessment report and the AMP are available for review at the [Office].

The continuing presence of the remaining asbestos does not pose a risk of exposure to occupants as long as it remains under this management program. Staff have been given appropriate training and are aware of its presence.

If you have any concerns, please contact the AMP Facilitator at [phone number].

APPENDIX B
Contractor Notification and Acknowledgement Form



CONTRACTOR NOTIFICATION AND ACKNOWLEDGEMENT FORM

HRCE has identified the presence of various asbestos-containing materials (ACM) within [HRCE Facility name] located at [address]. An asbestos inventory report showing the locations and amounts of these materials is available for viewing from the AMP Facilitator.

The disturbance of ACM is to be undertaken by Asbestos Abatement Contractors that maintain the appropriate insurance coverage and meet the requirements set out in the Asbestos Management Program (AMP).

The following activities may disturb asbestos materials. The AMP Facilitator must be notified of the following:

- Any removal, repair or disturbance of any ACM.
- Ceiling entry which may disturb sprayed-fireproofing or pipe insulation, or debris on the ceiling.
- Any other operation which may generate airborne asbestos from friable asbestos.
- The disturbance of any material excluded from the Facility's asbestos assessment report.
- Discovery of any material excluded from the survey.

Declaration by Contractor

The Contractor and their sub-contractors shall follow the work procedures as specified by HRCE's AMP and shall not disturb ACM without using proper procedures in accordance the provincial regulations and guidelines, and this AMP, including prior notification to the AMP Facilitator. All asbestos waste will be packaged, transported and disposed of in accordance with applicable regulations.

Notification of Asbestos Abatement

All Contractors who perform work at facilities where ACM is present must be notified of the presence of the ACM if their work may bring them into contact, or close proximity to, the ACM. This notification may include janitorial, security, telephone, computer cabling suppliers, mechanical maintenance contractors, etc.

All contractors who perform work, including telephone, computer cabling suppliers, electrical and mechanical contractors, etc., at HRCE facilities, where asbestos-containing spray-applied insulation is present above ceilings are to be notified that Moderate Risk Procedures may be required for any entry to, or work within the ceiling space, determined by condition of material, scope of work, and potential for disturbance of the material.



Contractors are to:

- Notify municipal Landfill site as per provincial regulations.
- Inform all sub trades of the presence of ACM identified in the contract documents.
- If suspect ACM not identified in the contract documents are discovered during the course of the work, the Contractors are to stop all work which might disturb the suspect ACM. The contractor is to notify the Constructor (if applicable), HRCE and the JOHSC or OHS Representative for the workplace.

By signing below, the Contractor acknowledges they have received, read and understand the requirements of HRCE's AMP.

Building (Address): _____

Project: _____

Contractor: _____

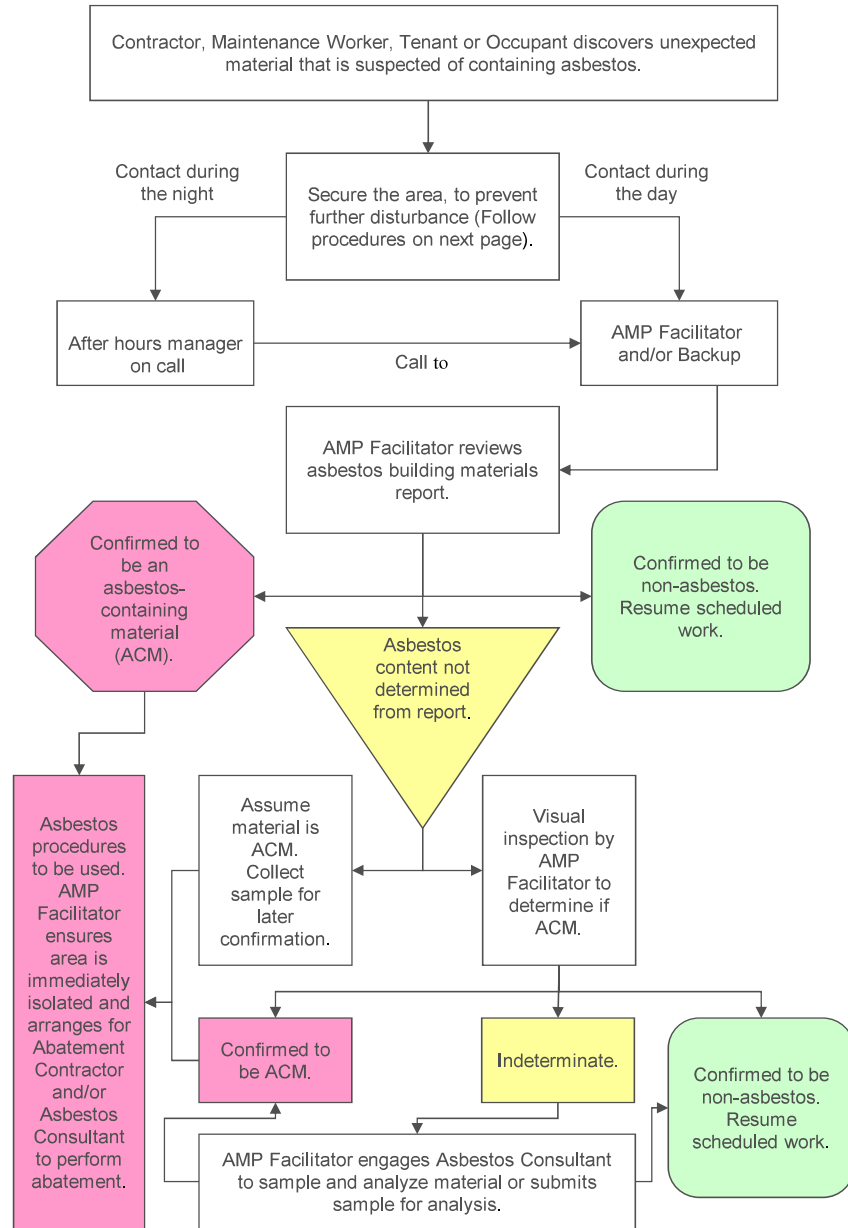
Name and Title: _____

Signature: _____

Date: _____

APPENDIX C
Response to Disturbance of Asbestos

EMERGENCY RESPONSES AND NOTIFICATION IN THE EVENT OF ASBESTOS-SUSPECT MATERIAL DISCOVERED DURING MAINTENANCE OR CONTRACTED WORK OR REPORTED BY OCCUPANT/TENANT





EMERGENCY REACTION IN THE EVENT OF SUSPECTED ASBESTOS SPILL

If asbestos-containing materials or suspect materials have been disturbed improperly, follow these directions:

- Do not clean up, cover, move or contact asbestos-containing or suspect material. Cease work in the area and do not resume work that risks disturbing the suspect material. Workers are to leave the area and the HRCE AMP Facilitator is to be notified immediately.
- Isolate the area by locking doors if this can be done without blocking emergency or fire routes.
- If it is not possible to safely isolate the area, the AMP Facilitator will notify appropriate persons not to enter the area. If possible, post security to prevent unnecessary access.
- The AMP Facilitator will arrange to shut down ventilation systems to the affected area including supply, return and exhaust.
- The AMP Facilitator will determine if asbestos is contained in the debris. If material cannot be confirmed asbestos-free by records or appearance, follow procedures below.
- The AMP Facilitator will contact an Asbestos Consultant to sample the material or identify the material visually.
- If the material is confirmed or assumed to contain asbestos, the AMP Facilitator is to contract an Asbestos Abatement Contractor to clean-up contaminated area.
- At their option, the AMP Facilitator may decide to employ an Asbestos Consultant to perform air monitoring and consulting, prior to, during, and/or after clean-up to determine airborne fibre concentrations prior to, and during, the work and to ensure airborne fibre levels are within acceptable limits to re-occupy the space. The AMP Facilitator must notify the Joint Occupational Health and Safety Committee of the results of air monitoring or testing.
- Enable ventilation systems after air monitoring or clean up of ACM.

APPENDIX D
Asbestos Project Work Record



ASBESTOS PROJECT WORK RECORD

Building: _____
(Building Address or Name)

Date: _____
(Today's Date)

Project Number: _____
(HRCE Project Number or Purchase Order Number)

Project Type:

- Emergency Planned Project
 Low Risk Moderate Risk Glove Bag High Risk

Area of Work: _____
(Room Name, Number, Floor etc.)

Description: _____
(Brief description of abatement, material, system, etc.)

Project Start Date: _____
(Mobilization date)

Project End Date: _____
(After dismantling/clean-up)

Contractor: _____
(Contracting firm or employee)

Telephone: _____
(Contractor or employee telephone)

Consultant: _____
(Name of consulting firm/contact if any)

Telephone: _____
(Consultant telephone)

Pre-Construction Assessment for asbestos-containing material (ACM) and other hazardous building materials (e.g. lead, mercury, silica, and PCBs) performed and report provided to Contractor?

Yes No (Explain) _____

Air Sampling during abatement?

Yes No



Clearance Air Monitoring performed after abatement?

Yes No

Air Monitoring results to Joint Occupational Health and Safety Committee (if applicable)?

Yes No

Asbestos Survey Updated to Reflect Changes in ACM Inventory?

Yes No, no changes to ACM inventory resulted

No, to forward copies to Consultant prior to next re-assessment

Asbestos waste removed from site and disposed of?

Yes, ACM waste documentation attached No, ACM waste not generated

No, ACM waste remains on site for later disposal

Append the following information relating to asbestos abatement to this work record, if applicable, and file Asbestos Work Record and attachments with Asbestos Management Program. Check where attached.

Submittals including Insurance Yes No

Waste Documentation Yes No

Specifications, Change Orders, Drawings Yes No

Consultant Inspection Reports Yes No

Air Monitoring Results Yes No

Analytical Certificates Yes No

Provincial Regulatory reports Yes No

Additional Correspondence Yes No

APPENDIX E
Reassessment of ACM

APPENDIX F
Classifications of Abatement Work



CLASSIFICATIONS OF ABATEMENT WORK

Nova Scotia regulations/guidelines do not specifically classify asbestos work procedures, and only prescribe removal of friable materials including the use of Glove Bags.

In the absence of defined work classifications, the following are the generally accepting work classifications:

Low Risk

- installation or removal of ACM ceiling tiles (less than 7.5 m²) without damage*.
- installation or removal of non-friable ACM, other than ceiling tiles, without damage*.
- damaging* non-friable ACM that is wetted and where the work is done using non-powered hand-held tools.

Moderate Risk

- removal of less than one square metre of drywall where ACM joint-filling compounds were used.
- enclosure of friable ACM.
- application of tape, a sealant or other covering to pipe or boiler insulation that is ACM.
- installing or removing ACM ceiling tiles that cover an area of 7.5 m² or more if the work is done without damaging the tiles.
- damaging non-friable ACM using non-powered hand-held tools if the material is not wetted.
- cleaning or removing filters used in air handling equipment in a building that has sprayed ACM insulation.
- glove bag removals of ACM insulation.
- Work that may expose a worker to asbestos and that is not classified as a Low Risk or High Risk operation, is also to be classified as a Moderate Risk operation.

High Risk

- removal or disturbance of friable ACM.
- the removal of all or part of a false ceiling to access a work area, if ACM is likely to be lying on the surface of the false ceiling.
- spray application of a sealant to friable ACM.



- cleaning or removal of air-handling equipment, including rigid ducting but not including filters, in a building that has sprayed ACM insulation.
- repair, alteration or demolition of a kiln or furnace made, in part, of refractory materials that are ACM.
- Use of power tools not attached to dust-collecting devices with HEPA filters on non-friable ACM.

* **damage** includes breakage, cutting, abrading, grounding, sanding, and vibration.

APPENDIX G
Site Specific Report(s)

CLIENT:



Halifax
Regional Centre for Education

PROJECT NAME:

ROOFING REPLACEMENT
ELLENVALE JUNIOR HIGH SCHOOL
BELLE VISTA DR
HALIFAX, NS

CONSULTANT

LIST OF DRAWINGS:

A-101	PARTIAL ROOF PLAN	ISSUED FOR TENDER
A-102	ROOFING DETAILS	
A-103	ROOFING DETAILS	

CONSULTANT

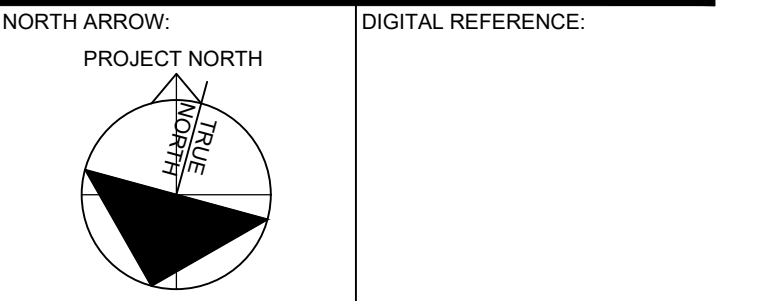
CLIENT



COPYRIGHT NOTICE
THIS DRAWING AND DESIGN IS COPYRIGHT PROTECTED.
DO NOT REPRODUCE OR REVISE WITHOUT WRITTEN PERMISSION BY ARCHITECTURE49 INC.



THIS BAR IS 25mm LONG WHEN PLOTTED AT CORRECT SCALE. DO NOT SCALE DRAWINGS.



PROJECT NO.: CA0006948.9893 CONTRACT NO. CA0006948
DRAWN BY: JimW CHECKED BY: APPROVED BY:
KEYPLAN:

GENERAL NOTES:

1. REMOVE EXISTING 2-PLY MODIFIED BITUMEN ROOFING SYSTEM AND INSULATION DOWN THE EXISTING VAPOUR BARRIER. INSTALL NEW TWO-PLY MODIFIED BITUMEN ROOFING SYSTEM, NEW PARAPETS AND NEW CURBS.
2. THE EXISTING ROOF IS FLAT WOOD STRUCTURE.
3. REMOVE EXISTING ROOF HATCH AND PROVIDE NEW ROOF HATCH AT NEW LOCATION. RELOCATE EXISTING LADDER AND MODIFY BRACKETS AS REQUIRED.
4. CONSTRUCT TAPERED CRICKETS AT HIGH SIDE OF MECHANICAL CURBS WIDER THAN 30", AND AS IDENTIFIED ON ROOF PLAN.
5. REMOVE EXISTING AND PROVIDE NEW STACK JACK FLASHING AT VENT PIPES.
6. REMOVE EXISTING AND PROVIDE NEW ROOF DRAINS. CONNECT TO EXISTING RWL. INSULATE ALL NEW PIPING WITHIN 10 FEET OF DRAIN, REFER TO SPEC. ALL WORK IS TO BE DONE BY A QUALIFIED PROFESSIONAL, TO ALL CODES.
7. RAISE EXISTING MECHANICAL FANS AND INTAKES ON NEW CURBS. EXTEND DUCTWORK AND WIRING AS REQUIRED. ALL WORK IS TO BE DONE BY A QUALIFIED PROFESSIONAL, TO ALL CODES.

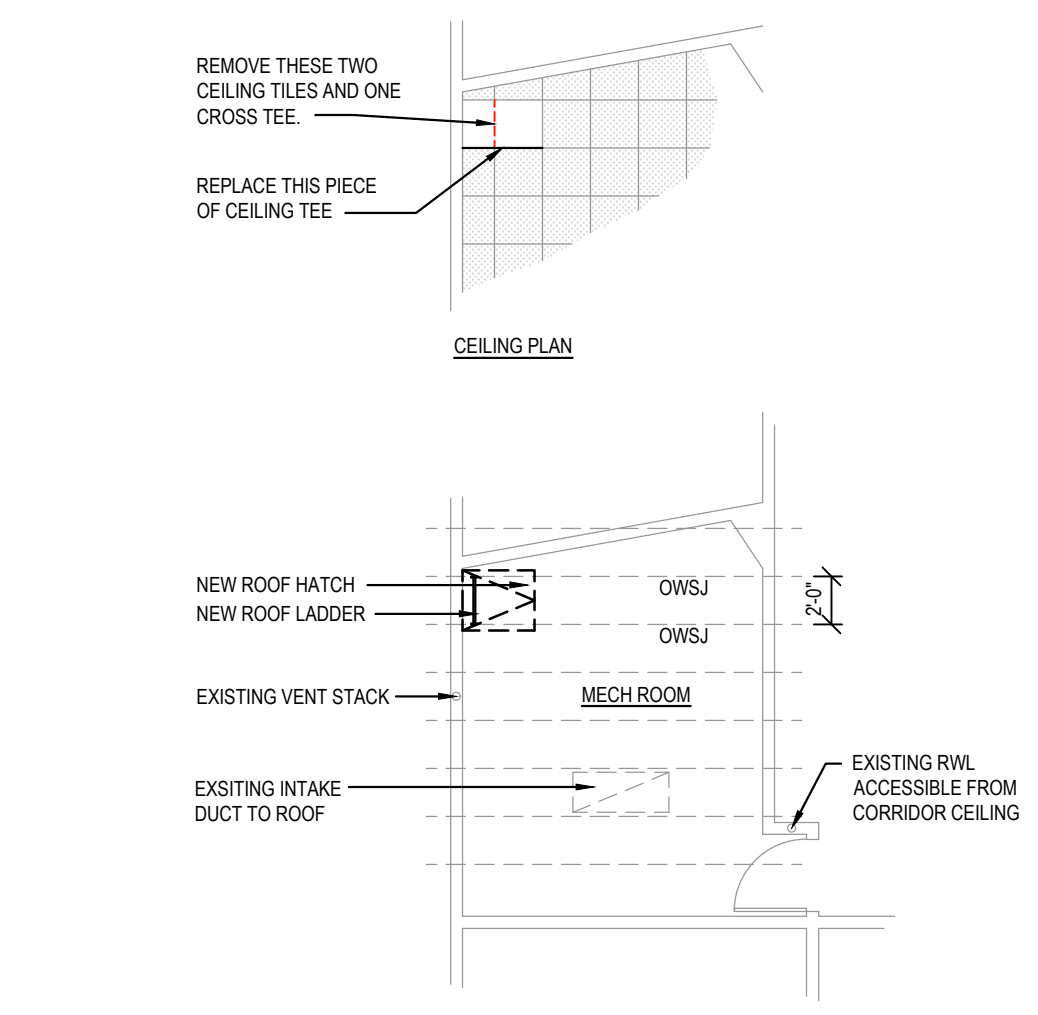
LEGEND

- AB - ABANDONED CURB/EQUIP
- EF - EXHAUST FAN
- EL - ELECTRICAL PENETRATION
- ON - COSSENECK EXHAUST
- RD - ROOF DRAIN
- VS - PLUMBING VENT STACK
- RWL - RAINWATER LEADER

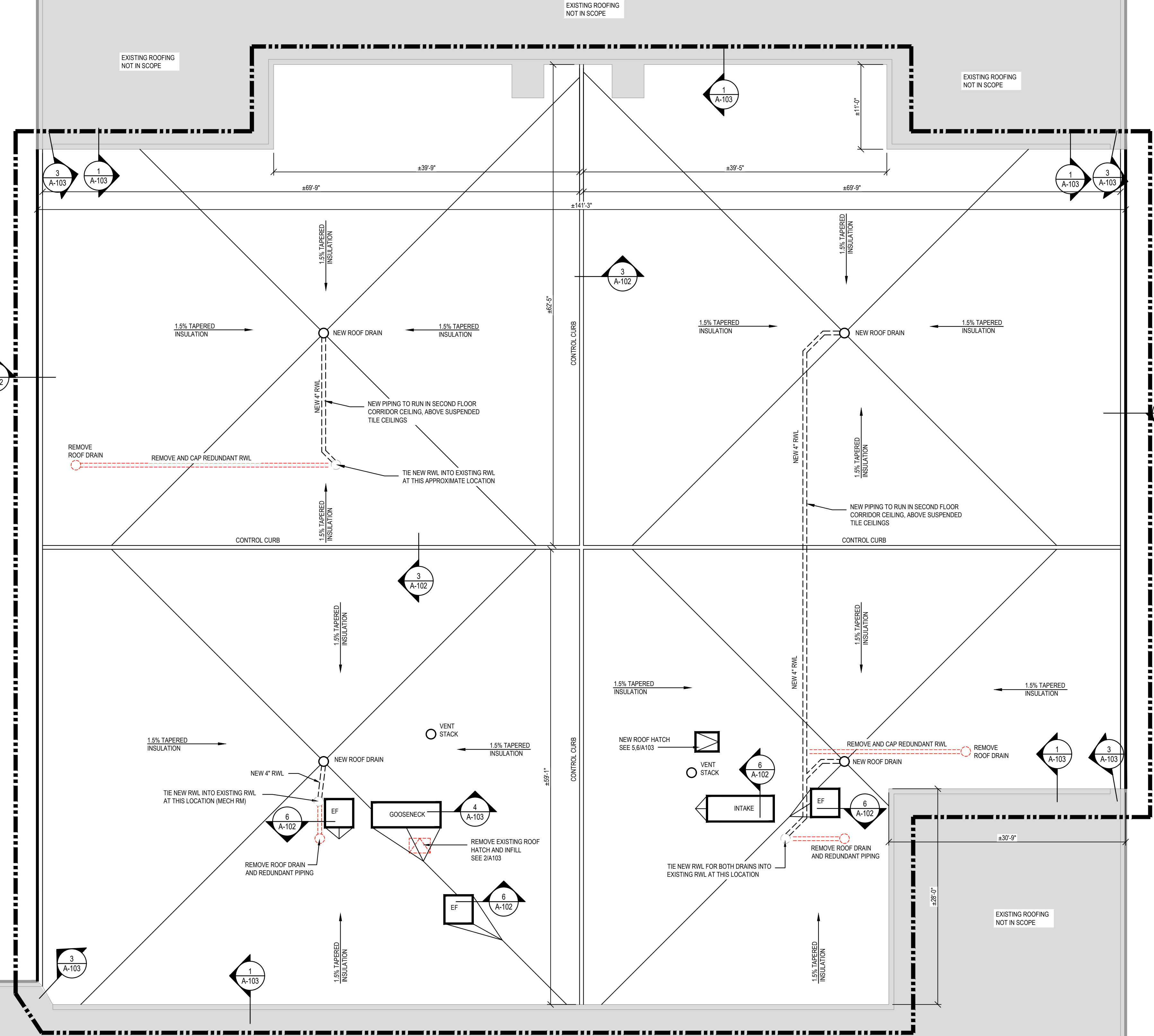
APPROXIMATE NEW ROOFING AREA
15,700sq (VERIFY ON SITE)

WIND DESIGN CRITERIA

<https://www.nrc-cnrc.gc.ca/eng/services/windrol/calculator/index.html>
LOCATION - HALIFAX REGION, DARTMOUTH
BUILDING HEIGHT, h - LOW RISE, STEPPED, 30m (9m)
BUILDING SIZE - 157x X 210'
EXPOSURE - OPEN
OPENINGS - CATEGORY 2
IMPORTANCE - HIGH
END ZONE WIDTH, z - 12x (3.7m)
CORNER, c - 114psf UPLIFT
EDGE, e - 58psf UPLIFT
FIELD, f - 45psf UPLIFT



PARTIAL SECOND FLOOR PLAN AT ROOF HATCH
1/8" = 1'-0" 2 A-101



1/8" = 1'-0" 1 PARTIAL ROOF PLAN
A-101

NO. DATE ISSUED
PROJECT

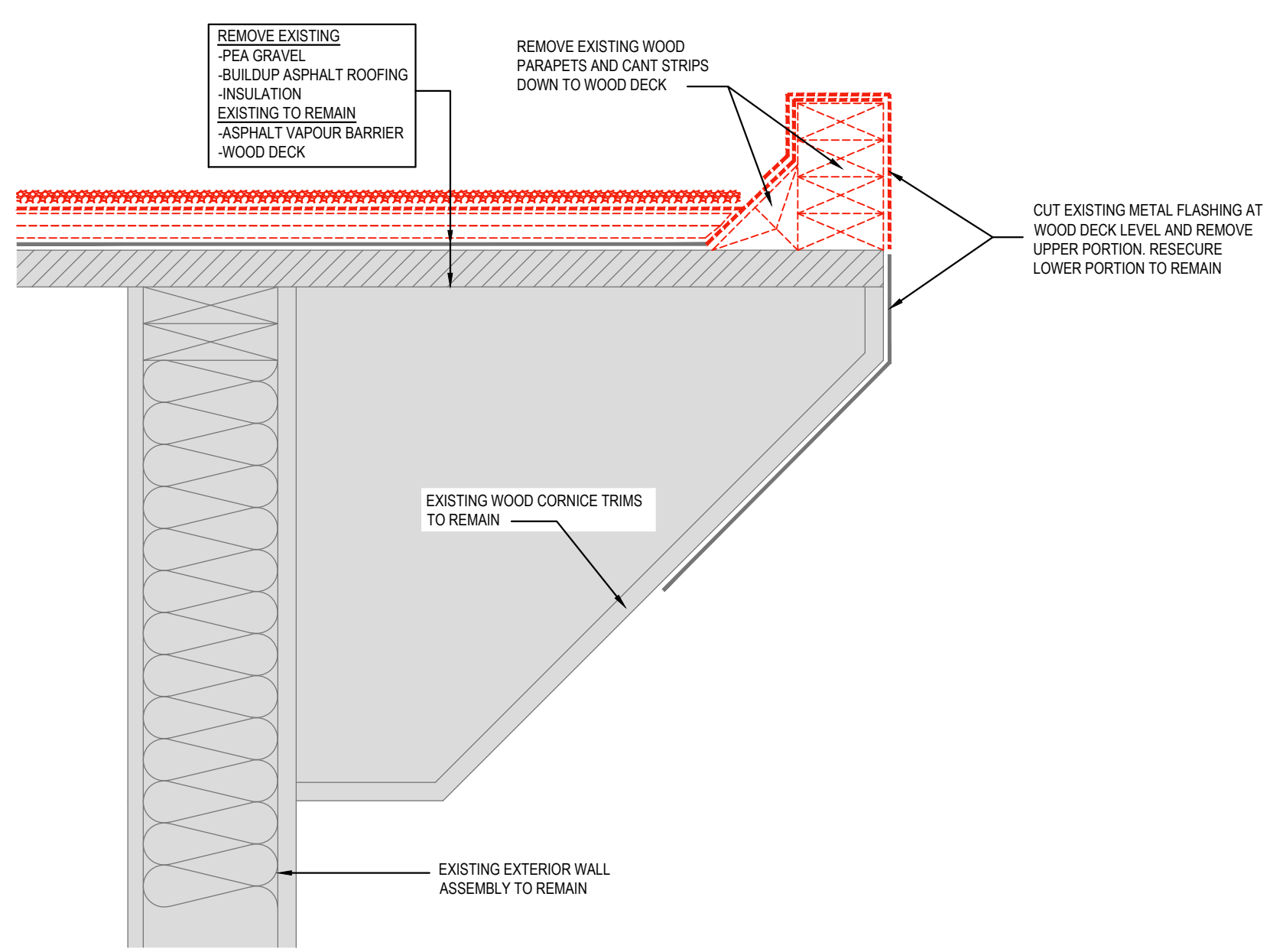
HRCE ELLENVALE JR HIGH SCHOOL
ROOFING REPLACEMENT

DRAWING TITLE

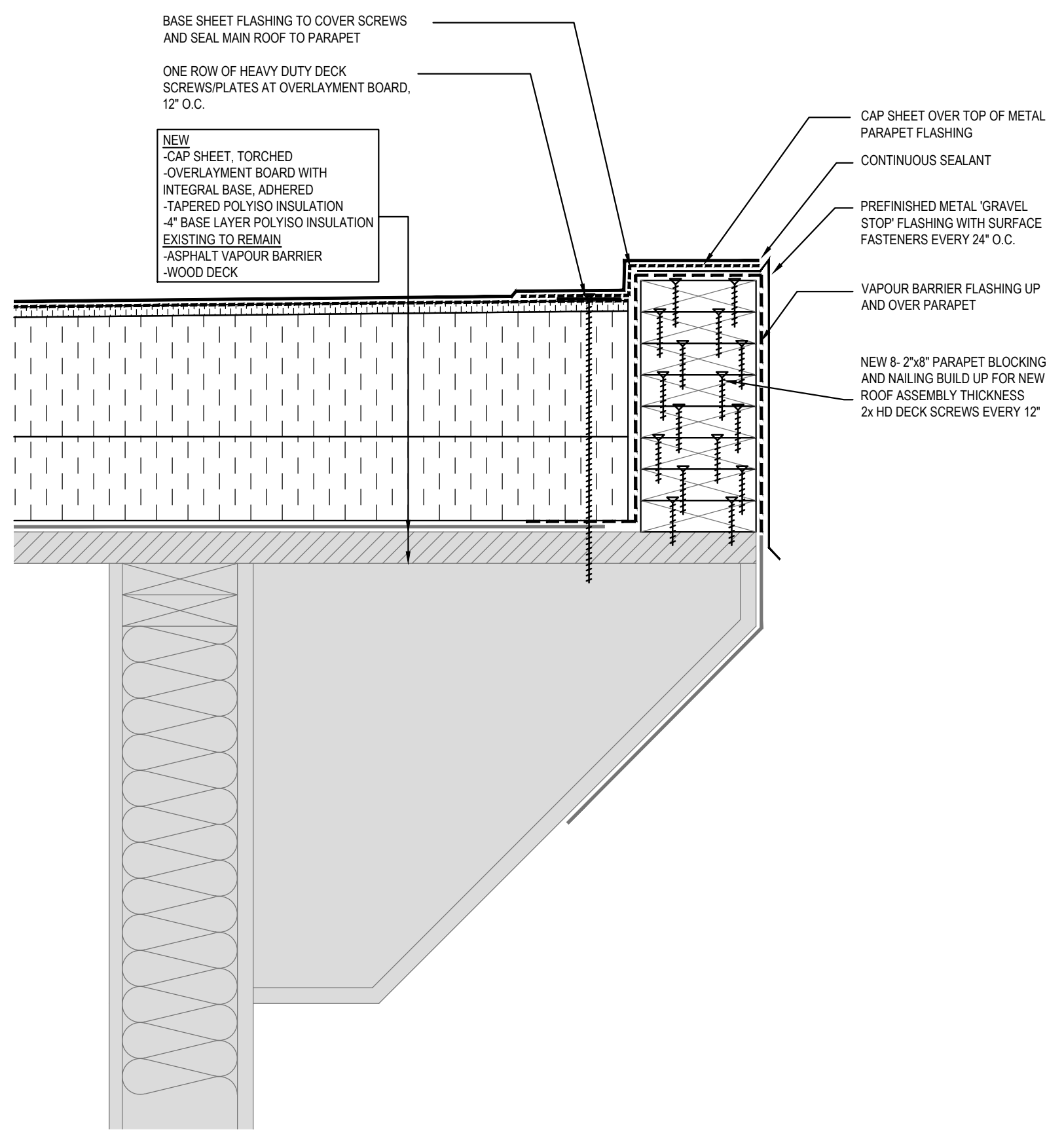
PARTIAL ROOF PLAN

DRAWING NO. A-101

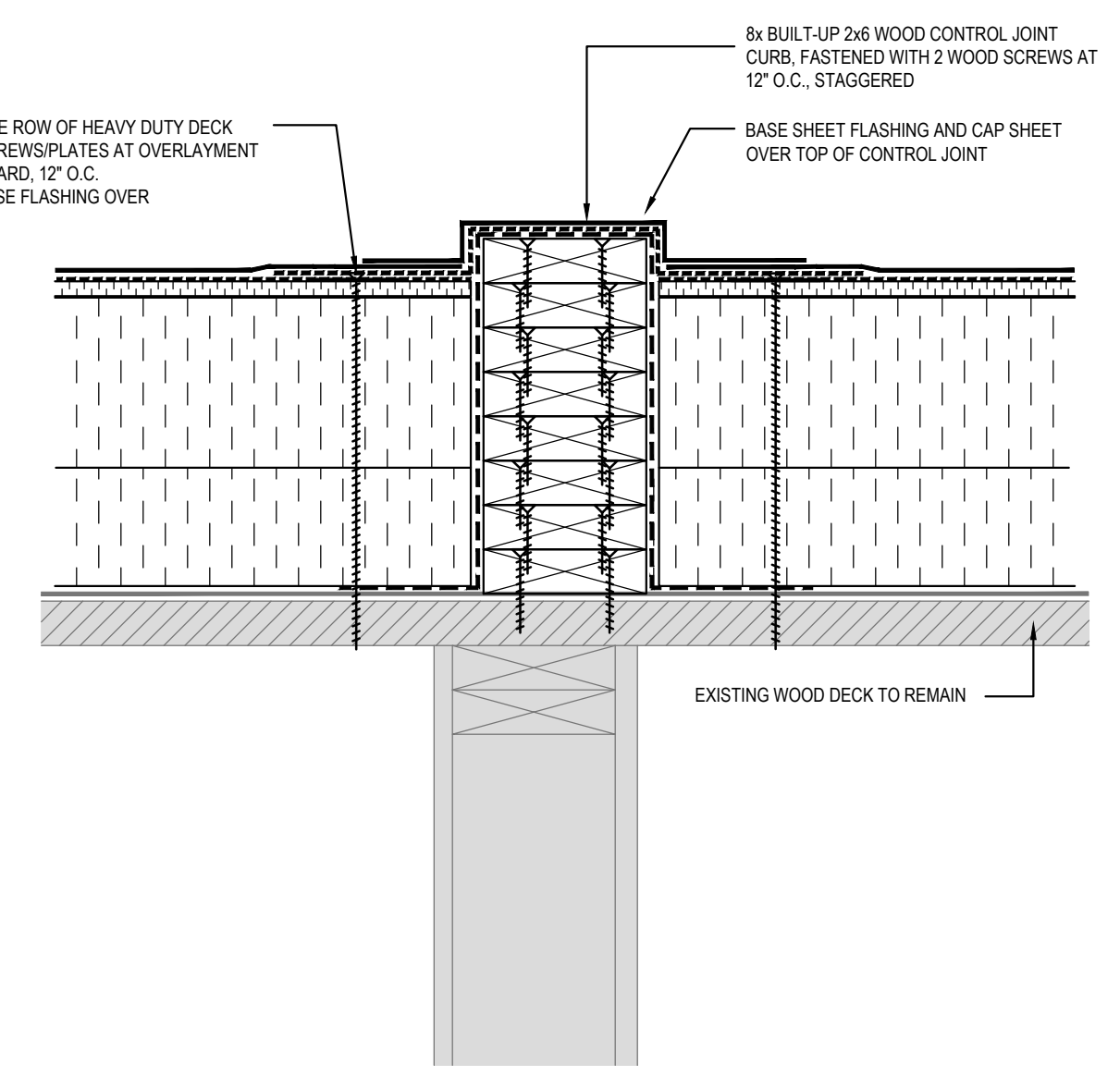
PRINT DATE: 2023-08-01 9:30:27 AM



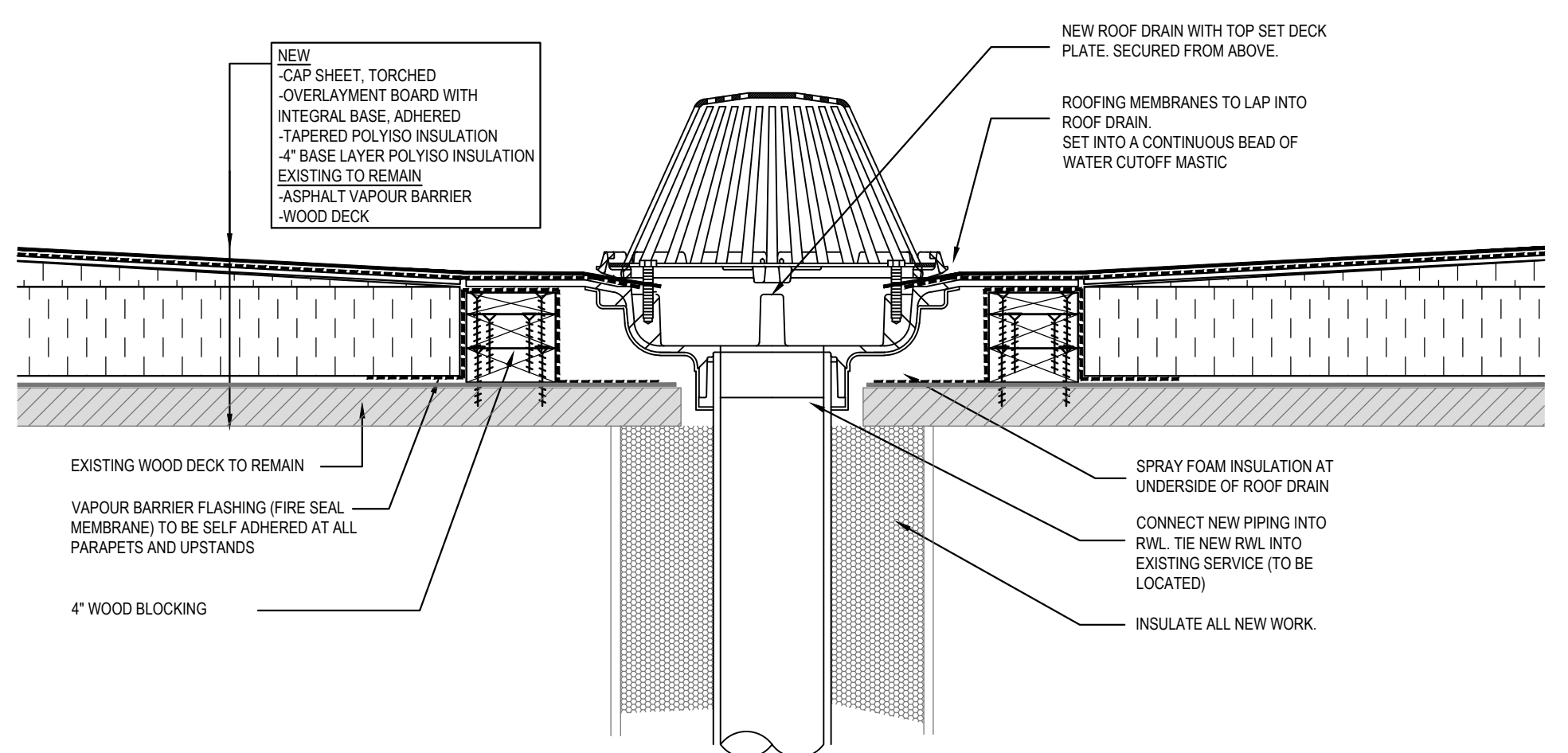
2" = 1'-0" **1** PARAPET - DEMOLITION
A-102



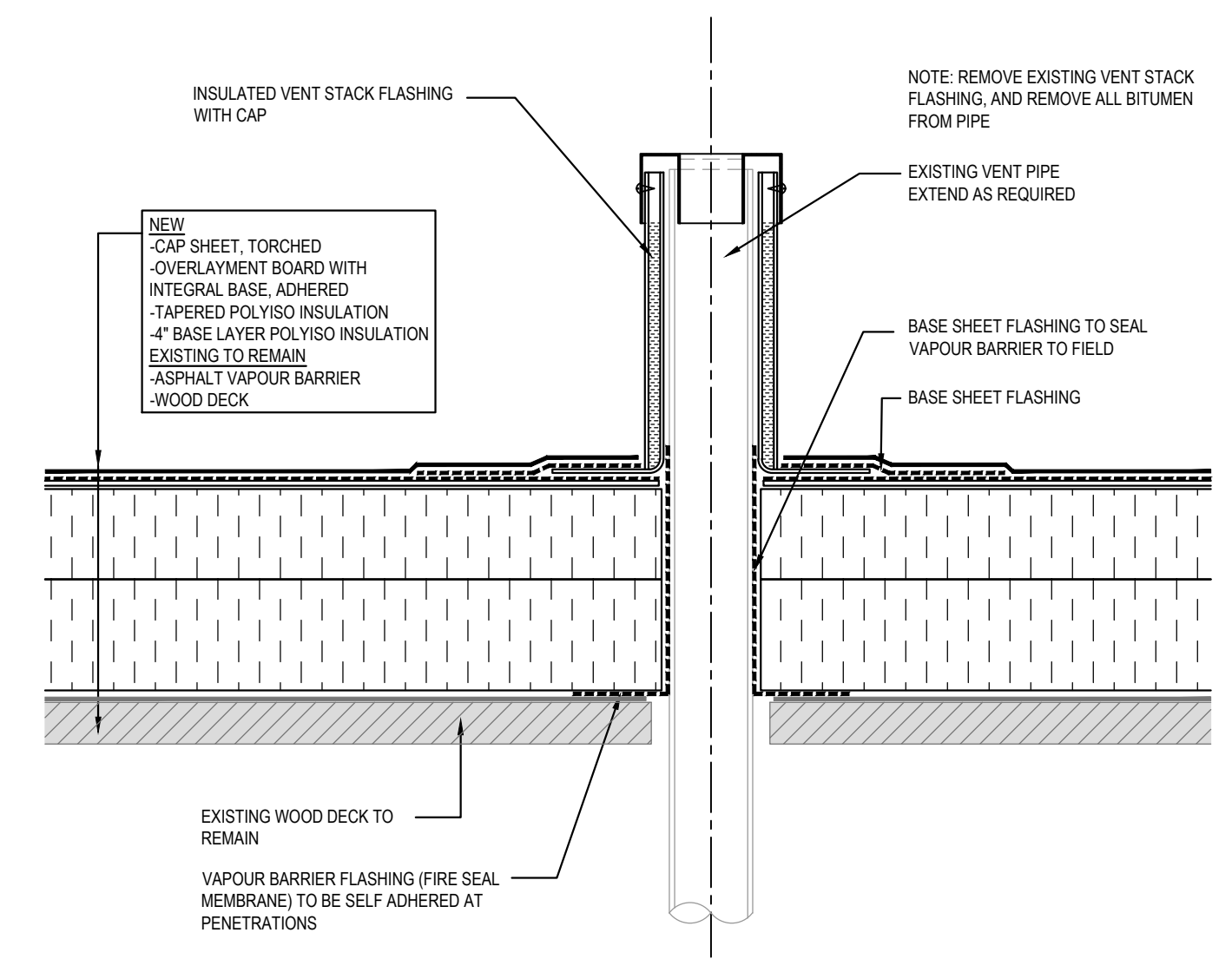
2" = 1'-0" **2** PARAPET - NEW WORK
A-102



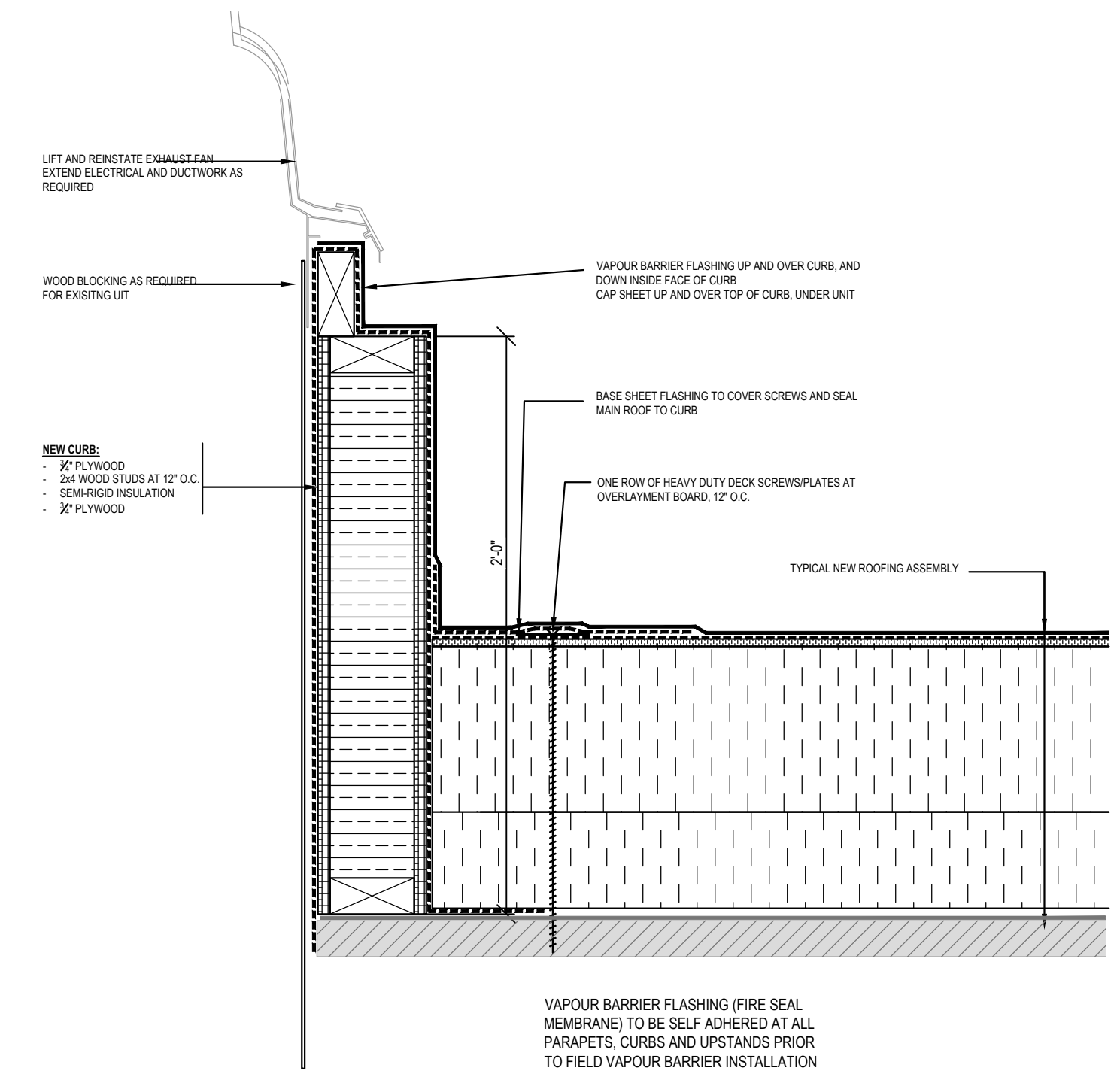
2" = 1'-0" **3** CONTROL CURB
A-102



2" = 1'-0" **4** ROOF DRAIN DETAIL
A-102



2" = 1'-0" **5** VENT STACK DETAIL
A-102



2" = 1'-0" **6** MECH CURB DETAIL
A-102



Halifax
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