Richmond Free Library
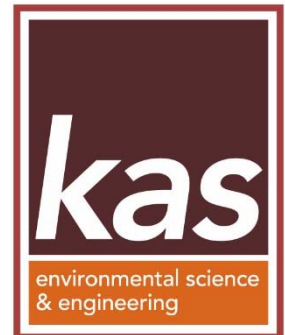# 201 Bridge Street
Richmond, VT 05477

KAS #312210376

PRE-RENOVATION ASBESTOS INSPECTION REPORT

January 21, 2022

Prepared For:

Town of Richmond
P.O. Box 285
Richmond, VT 05477

kas

environmental science
& engineering

589 Avenue D, Suite 10
PO Box 787
Williston, VT 05495

www.kas-consulting.com

802 383.0486 p
802 383.0490 f

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Appendices

I.   INTRODUCTION

A pre-renovation inspection was conducted on January 6, 2022 at the Richmond Free Library building located at 201 Bridge Street, Richmond, Vermont ("property"). The inspection consisted of looking for asbestos containing materials (ACM) prior to planned renovations at the property. The asbestos inspection was conducted in accordance with the EPA Region 1 NESHAPS (40 CFR Part 61) and State of Vermont (V.S.A. Title 18, Chapter 26) requirements.

2.   ASBESTOS INSPECTION SUMMARY

One three-story building resides at the property. The building was noted to be wood frame construction built on a concrete slab with an unfinished basement. The building is setup for use as the Town of Richmond library. The building appeared to be in overall good condition with no structural damage noted. The exact age of the structure is not known but it was likely built in the late 1800's or early 1900's with several renovations occurring over time.

A previous asbestos inspection was completed by Clay Point Associates, Inc. which was limited to specific building areas. KAS expanded upon this inspection to include all interior and exterior locations inside the building. KAS' inspection included obtaining seventeen (17) samples from suspect materials from inside and outside the building. The inspection is believed to have reasonably determined the extent of potential asbestos containing materials associated with the building.

The inspection found no ACM present. Table 1 on page 3 summarizes the inspection results.

2.1 Asbestos Inspection Methods

This asbestos site inspection was conducted by EPA accredited, State of Vermont certified, asbestos inspectors generally in accordance with AHERA inspection guidelines and generally accepted procedures. Bulk sample analysis was conducted by a State of Vermont licensed laboratory Schneider Laboratories Global, Inc. of Richmond, VA. The inspectors possessed adequate experience, training and education to recognize potential ACM and to collect bulk samples of suspect materials for laboratory analysis. The asbestos inspection consisted of a visual and physical inspection of all building materials. Bulk samples were collected and analyzed from each suspect material found. Bulk samples of suspect ACM were analyzed for asbestos content using PLM methods (EPA 600/R-93/116 Method).

2.2 Vermont Regulations for Asbestos Control (VRAC)

The Vermont Regulations for Asbestos Control, as authorized by 18 VSA Chapter 26, detail the procedures, regulations, certifications and licenses required when disturbance of asbestos containing materials occurs in the State of Vermont. In essence, any company, individual or organization that disturbs asbestos containing materials or provides asbestos consulting or laboratory services must be certified by the State of Vermont. Personnel who conducted the inspection, bulk sample collections and laboratory analysis were properly certified by the State of Vermont and also possess current EPA approved training in asbestos site inspections and asbestos laboratory analysis.

2.3 Certification / Accreditation

Inspection Location: 201 Bridge St, Richmond, Vermont

Inspection Date(s): January 6, 2022

Buildings/Structures Inspected:

- Richmond Free Library

Inspector Certification/Accreditation:

The personnel who conducted the inspection/bulk sampling of the facilities hold the following Certification/Accreditation program requirements:

Inspector:

Jeremy Roberts: Vermont Asbestos Inspector – AI684183
Amy King: Vermont Asbestos Inspector - AI730216

Corporate and inspector licenses and certifications are contained in Appendix 1.

Asbestos bulk samples have been analyzed by Schneider Laboratories Global, Inc., Richmond, VA

2.4 Asbestos Inspection Results

Building material/sample locations and specific results of the sampling and analysis and visual inspection are contained in Table 1 on page 3.

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3.   RECOMMENDATIONS

Notification must be sent to Region 1 EPA in accordance with 40 CFR Part 61 subpart M and the State of Vermont in accordance with 18 VSA Chapter 26 at least 10 working days prior to start of any demolition or renovation activities (defined as disturbance of a load bearing structure).

Per the EPA Region I NESHAPS (40 CFR Part 61, paragraph 61.145) an informed on-site representative is required to be present during renovation activities to identify any unexpected materials that may be asbestos containing. This event is unlikely but the EPA requires it as a contingency. If found the discovered material must be presumed ACM and treated accordingly, or tested by a licensed inspector.

kas

TABLE 1 – INSPECTION RESULTS
RICHMOND FREE LIBRARY
201 BRIDGE STREET, RICHMOND, VT

Sample #	Location	Material	Analytical Results	Quantity/Condition
1, 2	Basement Entrance	Tar Wall Coating	No Asbestos Detected	~ 5 SF, No Damage
3, 4	Basement Entrance	Wall Caulking	No Asbestos Detected	~ 2 SF, No Damage
5, 6	1st Floor Library	12"x12" Ceiling Tile	No Asbestos Detected	~ 500 SF, No Damage
7, 8, 9	1st Floor Storage, 2nd Floor	Wall Plaster	No Asbestos Detected	~ 1,000 SF, Damaged
10, 11	2nd Floor Bathroom	Yellow 12"x12" Floor Tile with Mastic	No Asbestos Detected	~ 100 SF, Damaged
12, 13	Exterior Side Roof	Shingles / Tar Paper	No Asbestos Detected	~ 4 SF, No Damage
14, 15	Exterior Front Windows	Window Glaze	No Asbestos Detected	~ 4 SF, Significantly Damaged
16, 17	Exterior Front Window Frame	Caulking	No Asbestos Detected	~ 10 SF, Damaged

Appendix A

Certifications

ASBESTOS CONSULTING ENTITY

KAS INC.
589 AVENUE D SUITE 10
WILLISTON, VT 05495

Vermont Department of Health
Environmental Health
P.O. Box 70 - Drawer 30
Burlington, VT 05402-0070

LICENSE: CE426622

EXPIRES: Thursday, February 24, 2022

CERTIFICATE OF LICENSE
VERMONT ASBESTOS REGULATORY PROGRAM

THIS CERTIFICATE SHALL REMAIN IN FORCE UNTIL THE EXPIRATION DATE UNLESS REVOKED
OR VOIDED BEFORE THAT TIME.
THIS CERTIFICATE IS NOT TRANSFERABLE AND IS VALID ONLY FOR THE ABOVE PARTY.

COPY OF THIS CERTIFICATE MUST BE ON SITE AT ALL TIMES.

ASBESTOS SITE INSPECTOR

JEREMY ROBERTS
598 AVENUE D PO BOX 787
WILLISTON, VT 05495

Vermont Department of Health
Environmental Health
P.O. Box 70 - Drawer 30
Burlington, VT 05402-0070

LICENSE: AI684183

EXPIRES: Sunday, April 10, 2022

CERTIFICATE OF LICENSE
VERMONT ASBESTOS REGULATORY PROGRAM

THIS CERTIFICATE SHALL REMAIN IN FORCE UNTIL THE EXPIRATION DATE UNLESS REVOKED
OR VOIDED BEFORE THAT TIME. THIS CERTIFICATE IS NOT TRANSFERABLE AND IS VALID ONLY
FOR THE ABOVE PARTY.

COPY OF THIS CERTIFICATE AND PHOTO ID CARD MUST BE ON SITE AT ALL TIMES.

Appendix B

Laboratory Analytical Report

Analysis Report

Schneider Laboratories Global, Inc

2512 W. Cary Street • Richmond, Virginia • 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475

Customer: KAS, Inc. (4771)
Address: 589 Avenue D
Suite 10
Williston, VT 05495
Attn:

Order #:	454507

Received	01/12/22
Analyzed	01/19/22
Reported	01/19/22

Project: Richmond Town Library
Location: 201 Bridge Street Richmond, VT
Number: 312210376

Method: EPA 600/R-93/116 & 40 CFR App. E Sub. E Pt. 763

PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
454507-001	01/06/22	1	Basement		
Layer 1: Tar Black, Bituminous				No Asbestos Detected	100% NON FIBROUS MATERIAL
454507-002	01/06/22	2	Basement		
Layer 1: Tar Black, Bituminous				No Asbestos Detected	100% NON FIBROUS MATERIAL
454507-003	01/06/22	3	Basement		
Layer 1: Caulk Gray, Soft				No Asbestos Detected	100% NON FIBROUS MATERIAL
454507-004	01/06/22	4	Basement		
Layer 1: Caulk Gray, Soft				No Asbestos Detected	100% NON FIBROUS MATERIAL
454507-005	01/06/22	5	1st FL Library		
Layer 1: Ceiling Tile Beige, Fibrous				No Asbestos Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
454507-006	01/06/22	6	1st FL Library		
Layer 1: Ceiling Tile Beige, Fibrous				No Asbestos Detected	40% CELLULOSE FIBER 40% MINERAL/GLASS WOOL 20% NON FIBROUS MATERIAL
454507-007	01/06/22	7	Storage 2nd FL		
Layer 1: Plaster Gray, Granular				No Asbestos Detected	100% NON FIBROUS MATERIAL
Layer 2: Skim Coat White, Granular				No Asbestos Detected	100% NON FIBROUS MATERIAL

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

Project: Richmond Town Library
Location: 201 Bridge Street Richmond, VT
Number: 312210376

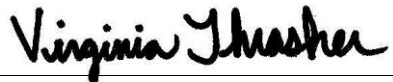**Method:** EPA 600/R-93/116 & 40 CFR App. E Sub. E Pt. 763

PLM Analysis

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
454507-008	01/06/22	8	Storage 2nd FL		
Layer 1:	Plaster			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Gray, Granular				
Layer 2:	Skim Coat			No Asbestos Detected	100% NON FIBROUS MATERIAL
	White, Granular				
454507-009	01/06/22	9	Storage 2nd FL		
Layer 1:	Plaster			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Gray, Granular				
Layer 2:	Skim Coat			No Asbestos Detected	100% NON FIBROUS MATERIAL
	White, Granular				
454507-010	01/06/22	10	2nd FL Bath		
Layer 1:	Tile			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Yellow, Organically Bound				
Layer 2:	Mastic			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Tan, Soft				
454507-011	01/06/22	11	2nd FL Bath		
Layer 1:	Tile			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Yellow, Organically Bound				
Layer 2:	Mastic			No Asbestos Detected	100% NON FIBROUS MATERIAL
	Tan, Soft				
454507-012	01/06/22	12	Outside Small Roof		
Layer 1:	Shingle			No Asbestos Detected	5% CELLULOSE FIBER
	Black, Bituminous/Granular				5% MINERAL/GLASS WOOL
					90% NON FIBROUS MATERIAL

Sample was inhomogenous, subsamples of each component were analyzed separately.

Layer 2:	Tar Paper			No Asbestos Detected	65% CELLULOSE FIBER
	Black, Fibrous				15% MINERAL/GLASS WOOL
					20% NON FIBROUS MATERIAL

Reporting Limit: 1% Gravimetrically Reduced Reporting Limit: 0.01% PLM analysis is based on Visual Estimation and NESHAP recommends that any friable sample with an asbestos content less than 10 percent be verified by Point Count or TEM Analysis. The EPA recommends that any attic loose fill vermiculite should be treated as asbestos containing material. This report must not be reproduced except in full with the approval of the laboratory. The test results apply to the sample as received.

Method: EPA 600/R-93/116 & 40 CFR App. E Sub. E Pt. 763   **PLM Analysis**

Sample ID	Collected	Cust. ID	Location	Asbestos Fibers	Other Materials
454507-013	01/06/22	13	Outside Small Roof		
Layer 1: Shingle				No Asbestos Detected	5% CELLULOSE FIBER
Black, Bituminous/Granular					5% MINERAL/GLASS WOOL
					90% NON FIBROUS MATERIAL

Sample was inhomogenous, subsamples of each component were analyzed separately.

Layer 2: Tar Paper				No Asbestos Detected	65% CELLULOSE FIBER
Black, Fibrous					15% MINERAL/GLASS WOOL
					20% NON FIBROUS MATERIAL
454507-014	01/06/22	14	Front Windows		
Layer 1: Glaze				No Asbestos Detected	100% NON FIBROUS MATERIAL
White, Granular					
454507-015	01/06/22	15	Front Windows		
Layer 1: Glaze				No Asbestos Detected	100% NON FIBROUS MATERIAL
White, Granular					
454507-016	01/06/22	16	Front Wood Area		
Layer 1: Glaze				No Asbestos Detected	100% NON FIBROUS MATERIAL
Off White, Granular					
454507-017	01/06/22	17	Front Wood Area		
Layer 1: Glaze				No Asbestos Detected	100% NON FIBROUS MATERIAL
Off White, Granular					

EPA Regulatory Limit: 1%

Total layers analyzed on order: 24   **454507-01/19/22 05:52 PM**

Analyst **Mohammed Hashim**

Reviewed By: **Virginia Thrasher**
Approved Signatory

SCHNEIDER LABORATORIES GLOBAL, INC.

2512 West Cary Street, Richmond, Virginia 23220-5117
804-353-6778 • 800-785-LABS (5227) • Fax 804-359-1475
www.slabinc.com   e-mail: info@slabinc.com

454507

V:\454\454507
jlawson
UPS
1/12/2022 10:43:54 AM
1Z2E28999091248021

Submitting Co. KAS, Inc.		Lab WO#		Phone 802-383-0486	
589 Avenue D, Suite 10		Acct #	4771	Fax / Email	JeremyR@kas-consulting.com
Williston, VT 05495		**State of Collection	VT	**Cert. Required	☒ Yes ☐ No

Project Name:	Richmond Town Library	Special Instructions [include requests for special reporting or data packages]
Project Location:	201 Bridge Street, Richmond, VT	**See attached chain of custody**
Project Number:	312210376	
PO Number:		

Turn Around Time (TAT)
- ☐ 2 hours*
- ☐ Same day* †
- ☐ 1 business day* †
- ☐ 2 business days* †
- ☐ 3 business days* †
- ☒ 5 business days* †
- * Not available for all tests
- A job received past 3PM † will begin its TAT the next business day
- Schedule rush organics, multi-metals & weekend tests in advance.

Matrix / Sample Type (Select ONE)
All samples on form should be of SAME matrix type. Use additional forms as needed.

- ☐ Air   ☒ Solid
- ☐ Aqueous   ☐ Waste
- ☐ Bulk   ☐ Wastewater
- ☐ Hi-Vol Filter (PM10) ☐ Water, Drinking
- ☐ Hi-Vol Filter (TSP) ☐ Compliance
- ☐ Oil   ☐ Wipe
- ☐ Paint   ☐ Wipe, Composite
- ☐ Sludge   ☐ _____
- ☐ Soil   ☐ _____

Tests / Analytes (Select ALL that Apply)

Asbestos in Air
- ☐ PCM (NIOSH 7400)
- ☐ TEM (AHERA)
- ☐ TEM (EPA Level II)

Miscellaneous Tests
- ☐ Total Dust (NIOSH 0500)
- ☐ Resp. Dust (NIOSH 0600)
- ☐ Silica - FTIR (NIOSH 7602)
- ☐ Silica - XRD (NIOSH 7500)

Other
- ☐ _____

Asbestos in Bulk
- ☒ PLM
- ☐ PLM (Point Count)
- ☐ PLM (Qualitative only)
- ☐ NYELAP
- ☐ CAELAP (Point Count)
- ☐ TEM (Chatfield)
- ☐ _____

FOR ASBESTOS AIR:
TYPE OF RESPIRATOR
USED: _____

Metals-Total
- ☐ Lead
- ☐ RCRA Metals

TCLP
- ☐ TCLP / Lead
- ☐ TCLP / RCRA Metals
- ☐ TCLP / Full (w/ organics) 10 day

Microbiology
- ☐ BACT (MPN & P/A)
- ☐ Mold Direct Exam
- ☐ _____

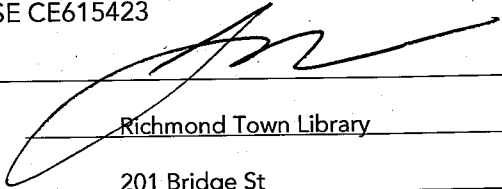| Sample #	Date Sampled**	Time Sampled**	Sample Identification (Employee, SSN, Bldg, Material, Type¹)	Wiped Area (ft²)	pH / Temp *	Time² Start	Time² Stop	Flow Rate³ Start	Flow Rate³ Stop	Total⁴ Air
			See Attached							

¹Type: A=Area B=Blank P=Personal E=Excursion ²Beginning/End of Sample Period ³Pump Calibration in Liters/Minute ⁴Volume in Liters [time in min × flow in L/min]

All soil and aqueous samples must be sent in adequate quantity for duplicate analysis to be performed per EPA requirements. Failure to perform a sample duplicate analysis, due to a lack of sample quantity, will lead to a disclaimer on the report. All problem jobs without customer response held over 30 days will be voided and disposed of.

Sampled by	Relinquished to lab by	For Lab Use:
NAME Jeremy Roberts	NAME Jeremy Roberts	
SIGNATURE _____	SIGNATURE _____	
DATE / TIME 1/6/2022 12:30	DATE / TIME 1/7/2022 13:21	

Sample Disposal ☐ Return to Sender (shipping fees)   ☒ Disposal by Lab ($50 fee for excessive weight)

* Temperature taken with IR Gun A.   **Required.   Chain-of-Custody documentation continued internally within lab. Terms and conditions page 2.

KAS, INC., P.O. BOX 787, WILLISTON, VT 05495 (802) 383-0486
VERMONT ASBESTOS CONSULTING ENTITY LICENSE CE615423

PROJECT NO.: 312210376   SAMPLER: Jeremy Roberts

CLIENT: Town of Richmond

Richmond, VT

SIGNATURE: _____

LOCATION: Richmond Town Library

201 Bridge St

Richmond, VT

SAMPLE TYPE: Bulk

TURNAROUND TIME: Standard per job terms

HA	SAMPLE #	DATE	ANALYSIS	SAMPLE LOCATION	BUILDING SURFACE	AMOUNT	DAMAGE
1	1	1/6/22	PLM	Basement	Tar	~5 feet	ND
	2	↓	↓	↓	↓	↓	↓
2	3	1/6/22	PLM	Basement	Caulk	~25 sq ft	ND
	4	↓	↓	↓	↓	↓	↓
3	5	1/6/22	PLM	1st Library	12x12 Ceiling tiles	~500 sq ft	D
	6	↓	↓	↓	↓	↓	↓
4	7	1/6/22	PLM	Storage – 2nd Floor	Plaster	~1000 sq ft	ND
	8	↓	↓	↓	↓	↓	↓
	9	↓	↓	↓	↓	↓	↓
5	10	1/6/22	PLM	2nd Floor – Bath	12x12 yellow tiles	~100 sq ft	D
	11	↓	↓	↓	↓	↓	↓

RELINQUISHED BY: _____ DATE/ TIME: 1/7/22 13/2 RECEIVED BY: _____ DATE/ TIME: _____

RELINQUISHED BY: _____ DATE/ TIME: _____ RECEIVED BY: _____ DATE/ TIMER: _____

COMMENTS:
1) Analyze each homogeneous area to first positive only
2) PLM EPA 600-93/116, EPA 400
3) Vermont samples
4) HA – homogeneous area
5) Analyze any Sheetrock / Joint Compound composite sample < 10% positive for 400 point count

KAS, INC., P.O. BOX 787, WILLISTON, VT 05495 (802) 383-0486
VERMONT ASBESTOS CONSULTING ENTITY LICENSE CE615423

PROJECT NO.: 312210376   SAMPLER: Jeremy Roberts   SIGNATURE:_____

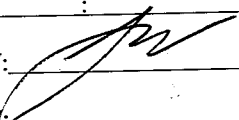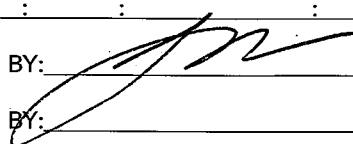CLIENT: Town of Richmond   LOCATION: Richmond Town Library

Richmond, VT   201 Bridge St

      Richmond, VT

SAMPLE TYPE: Bulk   TURNAROUND TIME: Standard per job terms

HA	SAMPLE #	DATE	ANALYSIS	SAMPLE LOCATION	BUILDING SURFACE	AMOUNT	DAMAGE
6	12	1/6/22	PLM	article - small Roof	Shingles/Tar Paper	N4 Sq6 6t	ND
	13	↓	↓	↓	↓	↓	↓
7	14	1/6/22	PLM	front windows	Glaze	N4 feet	SD
	15	↓	↓	↓	↓	↓	↓
8	16	1/6/22	PLM	front wood area	glaze	210 feet	D
	17	↓	↓	↓	↓	↓	↓

RELINQUISHED BY: _____ DATE/ TIME: 1/7/22 13/2 RECEIVED BY: _____ DATE/ TIME: _____

RELINQUISHED BY: _____ DATE/ TIME: _____ RECEIVED BY: _____ DATE/ TIMER: _____

COMMENTS:
    1) Analyze each homogeneous area to first positive only
    2) PLM EPA 600-93/116, EPA 400
    3) Vermont samples
    4) HA – homogeneous area
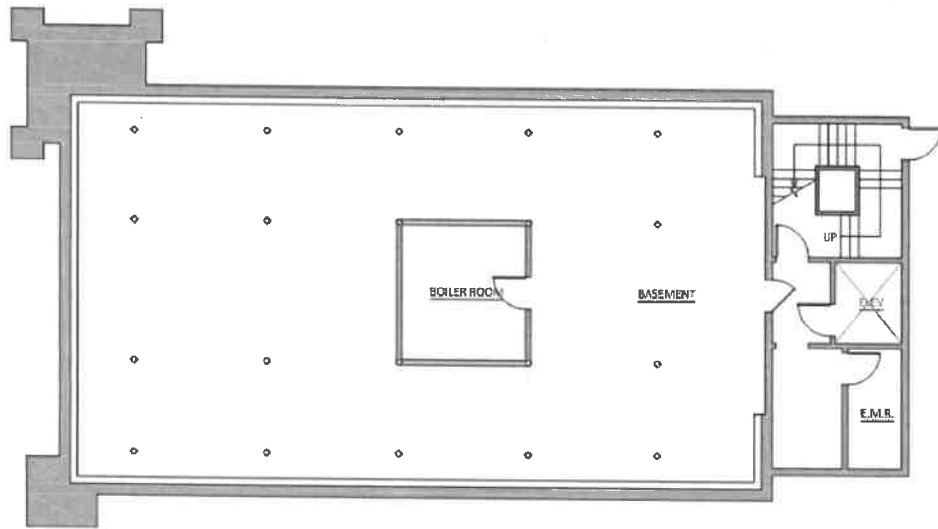   5) Analyze any Sheetrock / Joint Compound composite sample < 10% positive for 400 point count
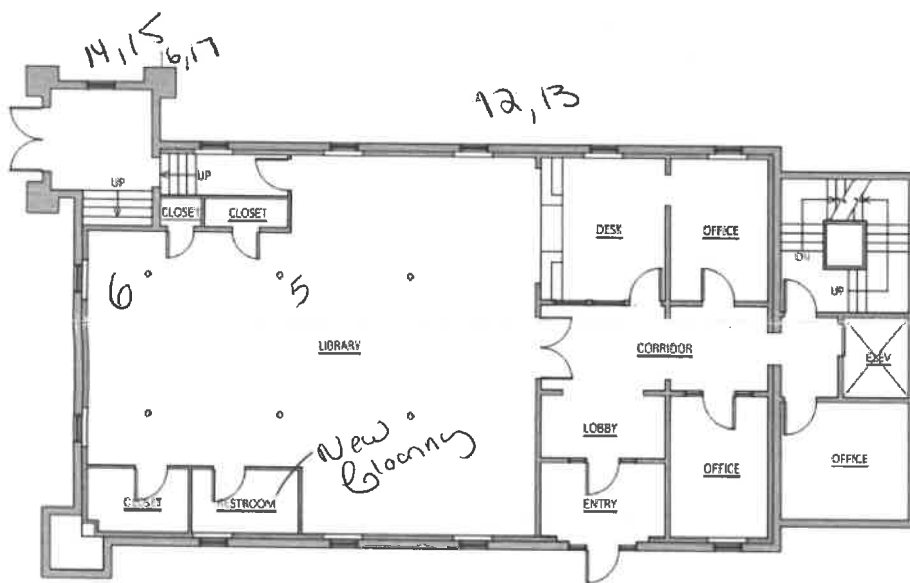
Appendix C

Building Plans with Sample Locations

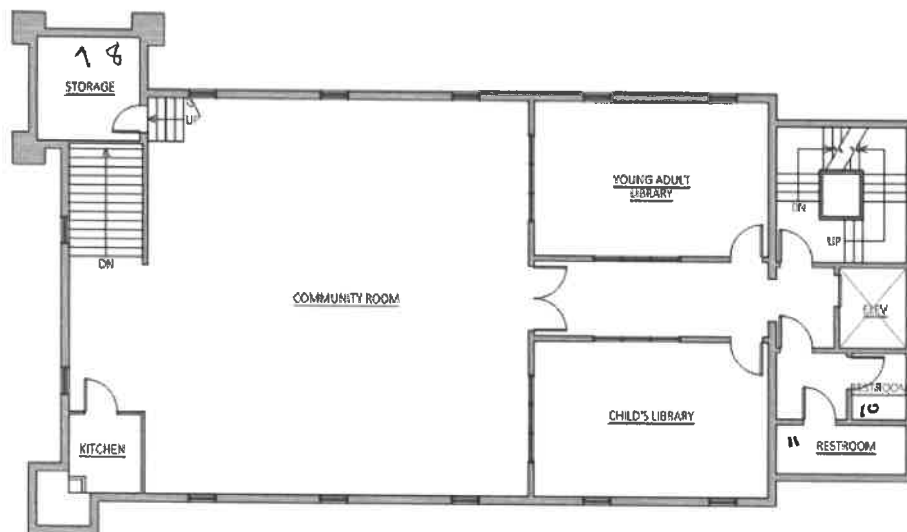# RFP Attachment #1 – Building Floor Plans Not to Scale

Library

Basement Level Floor Plan

First Floor Plan

Second Floor Plan