

# Roanoke County Schools

## Three Year AHERA Reinspection

Back Creek Elementary School  
Facility 011

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Reinspection Date:  
March 4, 2008

***Baratta & Associates, Inc***

PO Box 293

Vinton, Virginia 24179

540-890-4875

Michael Baratta, PE

Virginia Asbestos Inspector License: 3303-000065

Virginia Asbestos Management Planner License: 3304-000208

**Baratta & Associates, Inc.**

Virginia Department of Education  
Energy and Facilities Service

LEA Roanoke County Schools  
School 011 Back Creek Elementary School  
Building Main

**SCHOOL BUILDINGS**

Building Name	Location	Check here for the presence of:				No ACBM
		ACBM		Suspect ACBM		
		Friable	Non- friable	Friable	Non- friable	
Back Creek Elementary School 011	7130 Bent Mountain Road Roanoke VA 24018	X				

Inspector:

Name: Michael Baratta Signature 

Date 3/26/09

Accreditation Number: 3303 000065 Agency: Virginia DPOR


Virginia Department of Education  
Energy and Facilities Services

LEA Roanoke County Schools  
School: 011 Back Creek Elementary School  
Building: Main

**DETERMINATION OF EACH  
SAMPLE AREA**

H-K sample 23 tested positive. The sample came from a ceiling tile (LIC or ACT) in the kitchen area. Several LICs now occupy this area. We divided these into two separate homogenous areas, HA-8 (the random collection of LICs in the Dining Room) and HA-8A (the LICs in the kitchen area), and took two to three samples of each. The old floor tile (HA-09) was assumed positive by H-K. It appeared that these floor coverings had been removed and replaced. We obtained two samples each of the floor tile (HA-8A) and the mastic (HA-8B) in SE entrance as this appeared to be the oldest of the present floor tiles.

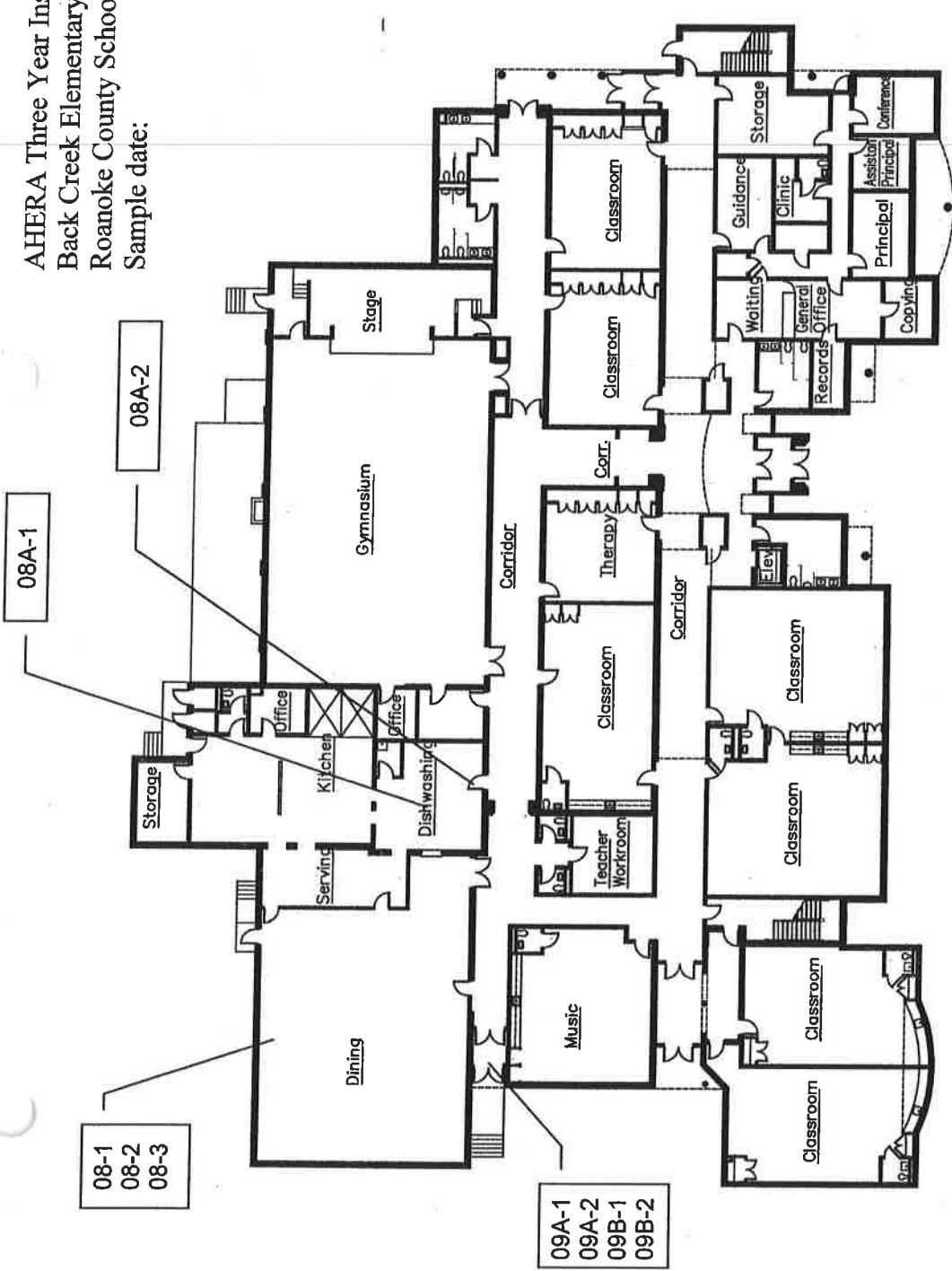
Homogeneous Area	Material	Sample Number	Location
HA-08	LIC 2' x 2' random pattern	08-1	Dining Room, center of S wall
	LIC 2' x 2' random pattern (whiter)	08-2	Dining Room, center of S wall
	LIC 2' x 2' approximately parallel holes	08-3	Dining Room, center of S wall
HA-08A	LIC 2' x 4' random pattern	08A1	Dishwashing, center of room
		08A-1	Dishwashing, at hall door
HA-09A	Floor tile 12"x12", light green & white	09A-1	SE entrance center of S wall
		09A-2	SE entrance center of S wall
HA-09B	Black mastic for HA-09A	09B-1	SE entrance center of S wall
		09B-2	SE entrance center of S wall

Name: Michael Baratta Signature  Date 3/26/08  
Accreditation Number: 3303 000065 Agency: Virginia DPOR

Main Building 011  
 Sample Locations  
 L001  
 March 4, 2008



AHERA Three Year Inspection  
 Back Creek Elementary School  
 Roanoke County Schools  
 Sample date:



0 4 8 16

• First Floor Plan

HA-08 LIC 2'x2' random pattern  
 Sample 08-1

HA-08 LIC 2'x2' random pattern (whiter)  
 Sample 08-2

HA-08 LIC 2'x2' approximately  
 Parallel holes  
 Sample 08-3

HA-08A LIC 2'x4' random pattern  
 Sample 08A-1; 08A-2

HA-09A Floor tile 12"x12" light green & white  
 Samples 09A-1; 09A-2

HA-09B Black mastic for HA-09A  
 Samples 09B-1; 09B-2

Virginia Department of Education  
Energy and Facilities Services

LEA Roanoke County Schools  
School: 011 Back Creek Elementary School  
Building: Main  
Sample Date: March 4, 2008  
Analysis Date: March 7, 2008  
Analysis Method: PLM EPA 6000/M4-82-020

**BULK SAMPLE ANALYSIS**

Homogeneous Area	Sample Number	Material	Asbestos Content
HA-08	08-1	LIC 2' x 2' random pattern	NAD
	08-2	LIC 2' x 2' random pattern (whiter)	NAD
	08-3	LIC 2' x 2' approximately parallel holes	NAD
HA-08A	08A-1	LIC 2' x 4' random pattern	NAD
	08A-2		NAD
HA-09A	09A-1	Floor tile 12"x12", light green & white	NAD
	09A-2		NAD
HA-09B	09B-1	Black mastic for HA-09A	NAD
	09B-2		NAD

NAD – no asbestos detected

See attached AmeriSci PLM Bulk Asbestos Report Number 108031120

Name: Michael Baratta Signature  Date 3/26/09  
Accreditation Number: 3303 000065 Agency: Virginia DPOR



**AmeriSci Richmond**  
13635 GENITO ROAD  
MIDLOTHIAN, VIRGINIA 23112  
TEL: (804) 763-1200 • FAX: (804) 763-1800

## PLM Bulk Asbestos Report

Baratta & Associates, Inc.  
Attn: Michael Baratta  
1150 Shady Run Road  
  
Vinton, VA 24179

Date Received 03/06/08  
Date Examined 03/07/08

AmeriSci Job # 108031120  
P.O. #  
Page 1 of 2

RE: AHERA; Back Creek Els

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
08-1 Location: Lay In Ceiling	108031120-01	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> White/Beige, Homogeneous, Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 35 %, Fibrous glass 35 %, Non-fibrous 30 %			
08-2 Location: Lay In Ceiling	108031120-02	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> White/Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 35 %, Fibrous glass 35 %, Non-fibrous 30 %			
08-3 Location: Lay In Ceiling	108031120-03	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> White/Beige, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Cellulose 35 %, Fibrous glass 35 %, Non-fibrous 30 %			
08A-1 Location: Lay In Ceiling	108031120-04	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> White/Gray, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Fibrous glass 55 %, Non-fibrous 45 %			
08A-2 Location: Lay In Ceiling	108031120-05	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> White/Gray, Heterogeneous, Non-Fibrous, Bulk Material <b>Asbestos Types:</b> <b>Other Material:</b> Fibrous glass 55 %, Non-fibrous 45 %			

See Reporting notes on last page

Client Name: Baratta &amp; Associates, Inc.

**PLM Bulk Asbestos Report**

AHERA; Back Creek Els

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
09A-1 Location: Floor Tile	108031120-06	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
09A-2 Location: Floor Tile	108031120-07	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> Brown, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Non-fibrous 100 %			
09B-1 Location: Floor Tile Mastic	108031120-08	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> Black, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 10 %, Non-fibrous 90 %			
09B-2 Location: Floor Tile Mastic	108031120-09	No	NAD (by CVES) by Gordon T. Saleeby on 03/07/08
<b>Analyst Description:</b> Black, Heterogeneous, Non-Fibrous, Bulk Material			
<b>Asbestos Types:</b>			
<b>Other Material:</b> Cellulose 10 %, Non-fibrous 90 %			

**Reporting Notes:**

Analyzed by: Gordon T. Saleeby

Date: MAR 7, 2008

\*NAD = no asbestos detected, Detection Limit <1%, Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; "Present" or NVA = "No Visible Asbestos" are observations made during a qualitative analysis; NA = not analyzed; NA/PS = not analyzed / positive stop; PLM Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab Code 101904-0) and ELAP PLM Analysis Protocol 198.1 for New York friable samples (198.6 for NOB samples)(NYS DOH ELAP Lab # 10984); CA ELAP Lab # 2508; Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. NAD or Trace results by PLM are inconclusive, TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full without the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: \_\_\_\_\_

**Baratta & Associates, Inc.**  
P.O. Box 293  
Vinton, Virginia

LEA Roanoke County Schools  
School 011 Back Creek Elementary School  
Building Main

### REASSESSMENT OF MATERIALS

Past or Initial Assessment: Hall-Kimbrell April 1989

None of the floor covering or lay in ceiling panels is deemed ACMs. We crawled through the tunnels under the original building. No suspect ACMs were noted in the tunnels.

Homogeneous Area	Description	Past Assessment Category #	Reassessment Category #
02	Low pressure steam pipe TSI	1	1
03	Low pressure steam fitting TSI	1	1
04	Domestic HW pipe TSI	1	1
05	Domestic HW fitting TSI	Non-ACM	Non-ACM
06	Domestic CW pipe TSI	1	1
07	Domestic CW fitting TSI	1	1
08	LIC 2' x 2' in Dining Area	5	Non-ACM
08A	LIC 2' x 4' in Kitchen Area	5	Non-ACM
09A	Floor tile 12"x12"light green and white	5	Non-ACM
09B	Black mastic for HA-09A	5	Non-ACM
10	Ground Floor Plaster	Non-ACM	Non-ACM
11	Ground Floor Plaster	Non-ACM	Non-ACM
12	Steam line TSI in tunnels	1	Removed
13	Boiler TSI	1	Removed
14	Pipe TSI in Boiler Room	1	Removed
15	Fitting TSI in Boiler Room	1	Removed

**AHERA - Physical Assessment Categories - 763.88(a)(2)(b)**

- 1 Damaged or significantly damaged TSI-ACBM
- 5 ACBM with potential for damage

Inspector:

Name: Michael Baratta

Signature 

Date

3/26/02

Accreditation Number: 3303 000065 Agency: Virginia DPOR



No TSI-ACM in Boiler Room or Original Tunnels

LOCATION OF ACBMs

Back Creek E/S

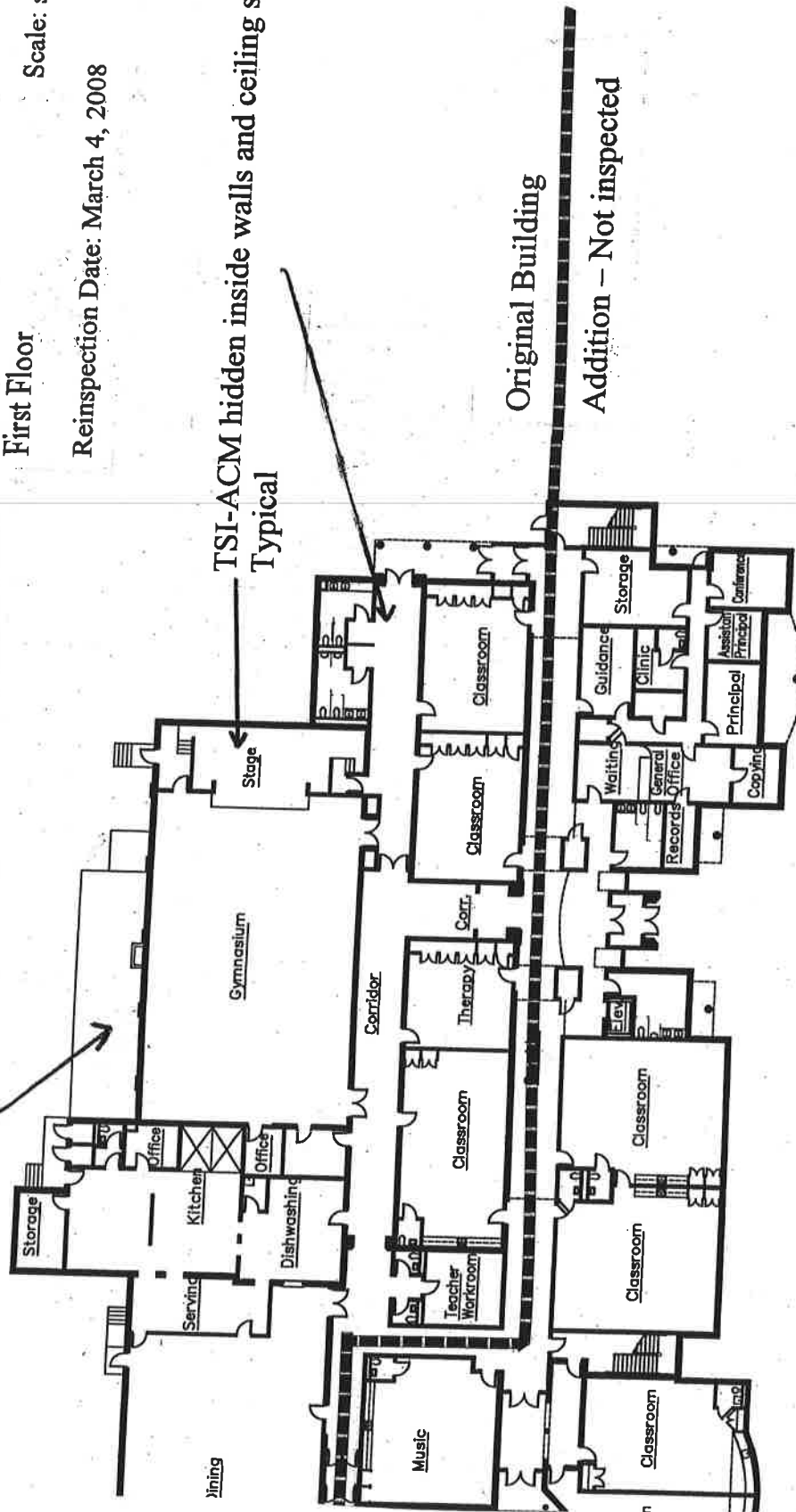
First Floor

Scale: see drawing

Reinspection Date: March 4, 2008

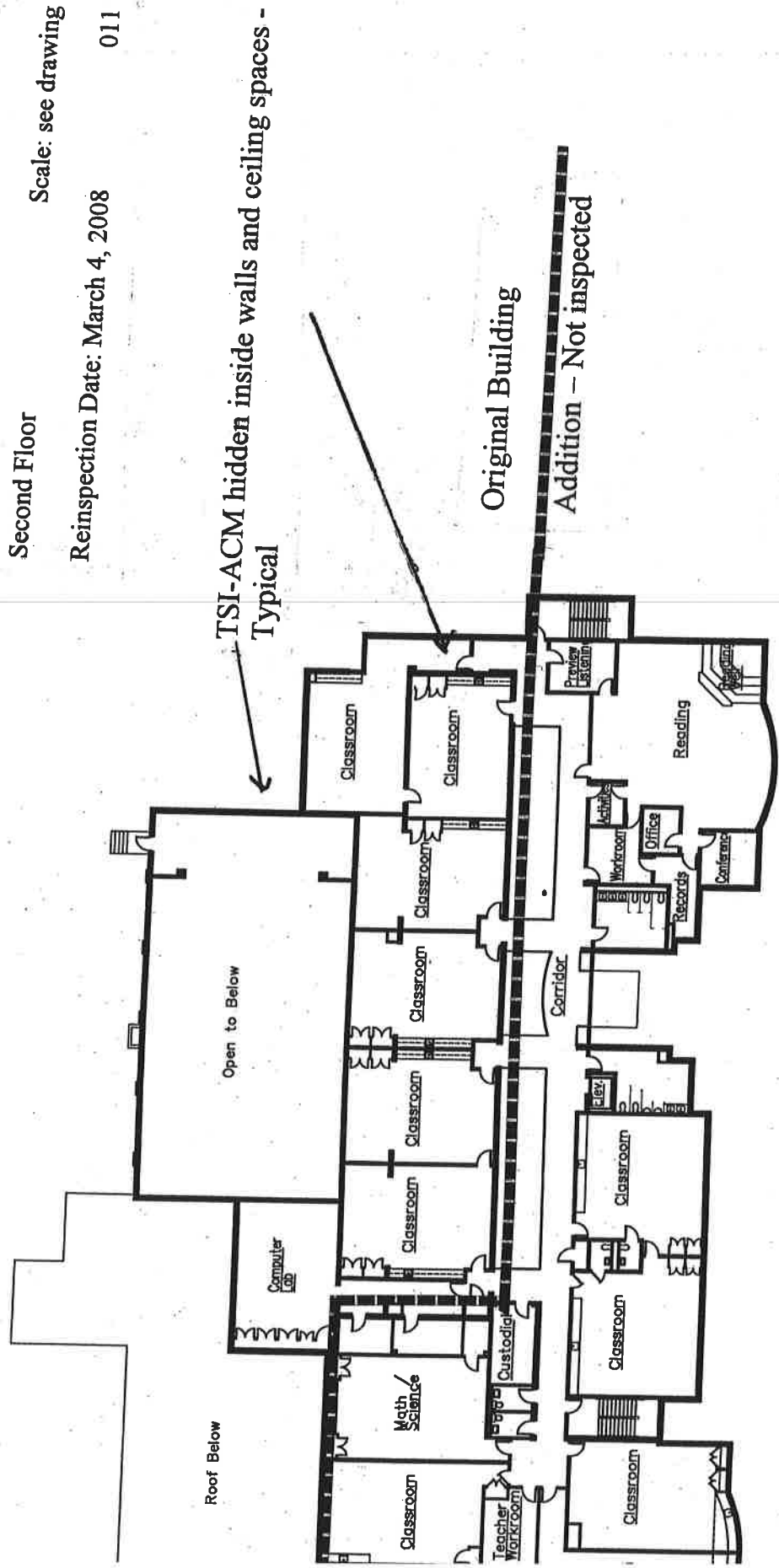
011

TSI-ACM hidden inside walls and ceiling spaces - Typical



First Floor Plan

LOCATION OF ACBMs 011 Back Creek E/S  
Second Floor Scale: see drawing  
Reinspection Date: March 4, 2008 011



Second Floor Plan




Virginia Department of Education  
Energy and Facilities Service

LEA Roanoke County Schools  
School 011 Back Creek Elementary School  
Building: Main  
Total cost to remove \$40,000

**RESPONSE ACTIONS  
RECOMMENDED**

Each Location	Recommended Response Actions	Scheduled To Begin	Scheduled To Be Completed	Est. Cost To Remove
TSI-ACM in walls and ceiling spaces	Place in O & M plan until other needs require the TSI be removed	none	None	\$40,000

The only ACMs that remain in the original building are the TSI hidden in wall and ceiling spaces. These should be removed as they are encountered during or involved in other work.

Management Planner:  
Name: Michael Baratta Signature  Date 3/26/09  
Accreditation Number: 3304 000208 Agency: Virginia DPOR

## ASBESTOS MANAGEMENT, OPERATIONS AND MAINTENANCE PLAN

Back Creek Elementary School  
March 17, 2008

This Asbestos Management Operations and Maintenance Plan is based on the three year AHERA Reinspection performed by Baratta & Associates, Inc on March 4, 2008. It covers procedures to be followed in dealing with the Asbestos-Containing Materials (ACMs) found in the Back Creek Elementary School.

### SUMMARY

It appears that all exposed ACMs have been removed from this building. The only remaining ACMs are the thermal system insulations (TSIs) on the piping systems inside the walls and ceiling spaces. These are hidden and not subject to physical damage by the general public. They do not currently present an asbestos related health risk to building occupants in this condition.

### STAFF NOTIFICATION

The School should send all staff members a brief notice stating that Asbestos-Containing Materials exist in the walls and ceiling spaces of Back Creek Elementary School.

### ACM IDENTIFICATION

The following products were found to be Asbestos-Containing Materials (ACMs):

HA Number	Material
	<b>Inside Walls and Ceilings</b>
02	Low pressure steam pipe TSI
03	Low pressure steam fitting TSI
04	Domestic HW pipe TSI
06	Domestic CW pipe TSI
07	Domestic CW fitting TSI

## **CARE OF THE THERMAL SYSTEM INSULATION (TSI) IN CONCEALED SPACES**

These ACMs are hidden in the walls and ceiling spaces. They do not present an asbestos related health hazard to those occupying the building.

Care should be taken when removing any ceiling tiles as TSI debris may have fallen on top of the tiles.

Should you notice any suspect asbestos containing debris in the ceiling space, please contact the Principal so an evaluation can be made and appropriate action taken,

## **PERMIT REQUIREMENTS**

Before any work that may require the disturbance of the noted Asbestos Containing Materials is performed, maintenance personnel or contractors shall obtain an Asbestos Work Area Permit from the School System's Asbestos Program Manager.