

AHERA Three-Year Re-inspection

At the

**Consentino Middle School**  
685 Washington Street  
Haverhill, MA 01832

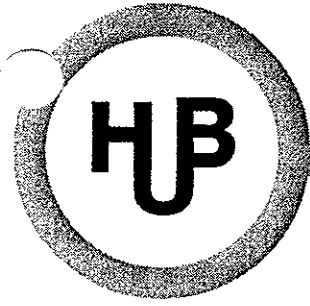
**HUB TESTING LABORATORY, INC.**

Environmental Testing Service



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95 Beaver Street - Waltham, MA 02453  
(781) 893-8330 (781) 893-4414 (fax)



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(781) 893-8330 (781) 893-4414 (fax)


REPORT FOR: Haverhill Public School District  
Central Administration  
4 Summer Street  
Room 104  
Haverhill, MA 01830

ATTENTION: Mr. Tom Geary  
Supervisor of Energy & Maintenance

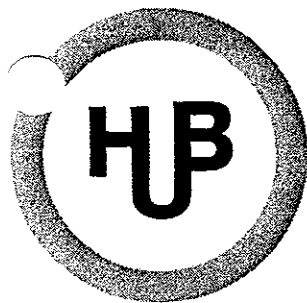
PROJECT: AHERA 3-Year Re-Inspection

SUBJECT: Consentino Middle School  
685 Washington Street  
Haverhill, MA 01832

PREPARED BY: Hub Testing Laboratory, Inc.

  
Susan Boyle  
Projects Manager  
Management Planner  
MA License No.: AP060147

DATE: April 2011



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REPORT FOR: Haverhill Public School District  
4 Summer Street  
Haverhill, MA 01830

ATTENTION: Mr. Tom Geary  
Supervisor of Energy and Maintenance

PROJECT: Consentino Middle School  
685 Washington Street  
Haverhill, MA 01832

SUBJECT: AHERA Three-Year Re-inspection

DATE: April 2011

As required by the US Environmental Protection Agency's AHERA regulations, Hub Testing Laboratory has completed a survey and reassessment of asbestos containing materials in the Consentino Middle School of the Haverhill Public School District. This report summarizes the locations and condition of materials remaining in the school and reviews the ongoing responsibilities of the Local Education Authority (LEA) pertaining to the building. Lynne Whitcraft (AI 61691) performed the inspection in April of 2011.

When sampling of suspect asbestos-containing materials was required, samples representative of the material were taken. Samples of thermal systems insulation and miscellaneous materials were collected in unobtrusive locations. Samples of surfacing materials were collected using the guidance document method for random sampling.

This latest survey report should be incorporated into the files that the LEA maintains, pertaining to response actions, operations & maintenance activities, six month reinspection, training, air sampling and major asbestos activities.

## SUMMARY OF AHERA RE-INSPECTION

The re-inspection consisted of reviewing previous documentation available, interviewing building personnel, and performing a thorough survey of each functional space in the building. The following sections summarize the current re-inspection, the presence of suspect or proven ACM in the building, any damage to the ACM, and response action proposals.

## CURRENT FINDINGS

### **MATERIALS FROM PREVIOUS INSPECTION**

During the previous three-year AHERA inspection of the Consentino Middle School in 2000, the following materials were identified as either containing asbestos or assumed to contain asbestos (identified with an asterisk (\*)). The list is classified by material. Any change in the condition or presence of the material discovered in the current re-inspection is noted here.

1. Breeching insulation

*Location:* Boiler room

*Quantity:*  $\approx$  270SF

*Condition:* Damaged

2. Pipe insulation

*Location:* Throughout school (above ceilings)

*Quantity:*  $\approx$  975 LF

*Condition:* Damaged

3. Hard Fittings

*Location:* Throughout school (above ceilings)

*Quantity:*  $\approx$  689 LF

*Condition:* Damaged

4. Air-cell Insulation \*

*Location:* Above sink in room 160

*Quantity:*  $\approx$  22 LF

*Note:* Material could not be located during recent inspection

5. Muffler insulation \*

*Location:* Generator room

*Quantity:*  $\approx$  30 SF

*Condition:* Not damaged

6. Roof drain fitting insulation \*

*Location:* Gym

*Quantity:*  $\approx$  975 LF

*Condition:* Not damaged

7. Vibration isolator \*

*Location:* AHU

*Quantity:*  $\approx$  20 SF (each)

*Condition:* Not damaged

8. Spray-applied fireproofing

*Location:* Library, 1<sup>st</sup> floor corridors, 2<sup>nd</sup> floor corridors and majority of classrooms

*Quantity:*  $\approx$  17,820 SF

*Condition:* Damaged

9. Floorings & associated mastic \*

*Location:* Throughout school

*Quantity:*  $\approx$  100,000 SF

Note: See the attached Materials Chart and floor plan for specific descriptions and locations of flooring. Until all individual types of tile are sampled and analyzed, suspect floorings and mastic must be assumed to be asbestos containing.

10. Ceramic tile grout \*

*Location:* Associated with ceramic tile walls

*Quantity:* ≈ 2020 SF

*Condition:* Not damaged

11. Black window sills \*

*Location:* 2<sup>nd</sup> floor classrooms

*Quantity:* ≈ 3 SF (each)

*Condition:* Not damaged

12. Stair treads \*

*Location:* Stairs

*Quantity:* ≈ 9360 LF

*Condition:* Damaged

13. Cove base \*

*Location:* Throughout school

*Quantity:* ≈ 9360 LF

*Condition:* Damaged

*Note:* See materials chart for types & locations

14. Mastic associated with cove base \*

*Location:* Throughout school

*Condition:* Not damaged, but exposed

15. Gray plaster \*

*Location:* Within metal vault walls in room 262

*Note:* Material could not be located during recent inspection

**NEW MATERIALS SINCE PREVIOUS INSPECTION**

The following homogeneous materials were newly identified during the current three-year AHERA inspection. The list is organized by material and all materials are assumed ACM at this time. All homogeneous materials not previously identified must be sampled and identified as ACM or non-ACM prior to any demolition or renovation in the area.

1. Ceiling plaster

*Location:* Bathrooms, Room 16

*Condition:* Not damaged

2. Glazing/caulking associated with window walls

*Location:* Window walls (see floor plans)

*Condition:* Not damaged

3. CMU grout

*Location:* Mixed throughout

*Condition:* Not damaged

4. Terrazzo

*Condition:* Not damaged

5. Boiler insulation

*Location:* Boiler room

*Condition:* Not damaged

## **SUSPECT ACM FOUND NOT TO CONTAIN ASBESTOS**

The following materials were sampled, analyzed and found not to contain asbestos.

1. Ceiling plaster
2. Plaster, textured wall covering
3. 1x1 Thin fissured ceiling tiles
4. 2x4 Thin fissured ceiling tiles
5. Canvas covered duct insulation
6. Sheetrock wall partitions
7. Off white pull down shades
8. Deck plaster
9. Lab/table tops

## **ACTION SHEET**

Based on the current three-year AHERA Re-inspection of the Consentino Middle School, the following actions for ongoing asbestos management in the school are recommended.

## **SIX-MONTH SURVEILLANCE**

Every six months a periodic surveillance of known and assumed asbestos-containing materials in the school must be conducted and documented. The chart included in this report may be used for the documentation. Use the right hand columns to indicate changes in a material's condition or quantity, and explain the changes in the comment section at the bottom of each page. Fill out the date of the survey and the signature of the person who conducted it at the end of the chart.

## **TRAINING**

In the event that the LEA's Designated Person changes, or new maintenance personnel are hired, the LEA must have Asbestos Awareness Training provided for these individuals.

Staff has some knowledge of asbestos containing materials in their schools however if training has not been reviewed in a number of years this should be conducted again.



## **RECORDKEEPING**

Continue to update files pertaining to:

- a. Training/Licensing of school personnel
- b. Notifications
- c. Response Actions
- d. Re-inspections

## **LABELING**

All friable asbestos containing materials must be maintained with identifying labels. The labels can help to prevent the entry of untrained and unprotected personnel into areas, which may have been contaminated.

**CAUTION  
ASBESTOS. HAZARDOUS.  
DO NOT DISTURB  
WITHOUT PROPER  
TRAINING AND EQUIPMENT**

## **CLEANING**

In the case that friable materials become damaged in an occupied space, the materials should be repaired and debris cleaned by qualified trained personnel with proper cleaning equipment and personal protective equipment.

## **RECOMMENDED RESPONSE ACTIONS**

All known and assumed asbestos-containing materials must be monitored for any change in condition. Every precaution and extreme care should be taken to keep these materials in an undamaged condition. In the event that a material is damaged, the appropriate response action should be taken to deal with the situation. Proposed response actions are based on the inspector's visual assessment of ACM according to AHERA assessment categories and risk assessment categories. These categories are detailed on the attached chart. All response actions should be implemented in a timely manner and must be designed by an accredited Asbestos Abatement Designer.

## **FLOOR TILES**

All efforts should be taken to prevent the further cracking and delamination of the asbestos-containing floor tiles in the building. No removal or significant repair is necessary at this time, however funding should be appropriated for future needs. The condition of the floor tiles should be

monitored during the six-month surveillances, which is performed as required by a knowledgeable person. This process will aid in documenting when tiles become broken and to determine when and where significantly damaged tiles need to be replaced.

#### **THERMAL SYSTEMS INSULATION (TSI)**

Insulation is damaged. Some discrepancies were noted. Funding should be appropriated for sampling of insulation. Care should be taken not to disturb the insulation and fittings.

#### **SPRAY-ON FIREPROOFING**

Care should be taken not to disturb this material.

#### **ASSUMED MATERIALS**

The majority of the materials identified during the re-inspection are assumed. Until such time as these materials are sampled and determined to be asbestos containing or not, they must be treated as asbestos containing. All efforts should be taken not to disturb the assumed materials. The inspector did not note issues that require immediate attention. However, funding should start to be appropriated so that sampling can occur as needed. The condition of the materials should be monitored during the six-month surveillances, which is performed as required by a knowledgeable person.

#### **ASSOCIATED COSTS**

1. Appropriate funding into account for future sampling.
2. As custodial & maintenance personnel have changes, provide awareness training (\$1,800 for all schools)

Approximate funds: \$2,800.00

All work beyond the capabilities of a trained and licensed in house O&M maintenance person must be performed by a licensed and qualified asbestos removal contractor. A licensed Project Designer must design all abatement projects outside of O&M.

# 3 YEAR RE-INSPECTION

## Consentino Middle School

April 2011

### ASSUMED AND PROVEN ASBESTOS-CONTAINING MATERIALS

| Material & Amount                     | Location   | Type & Friability | Assessment (ND, D, SD), (PD, PSD), (L,M,H) | Type/% Asbestos & # of Samples  | Comment   | Six Month Surveillances & Re-inspections |        |        |        |        | 3-YR |   |
|---------------------------------------|--|-------------------|--|---------------------------------|---|--|--------|--------|--------|--------|------|---|
|                                       |  |                   |  |                                 |   | 6-mo.                                    | 12-mo. | 18-mo. | 24-mo. | 30-mo. |      |   |
| Breaching insulation ≈ 270 SF         | Boiler room  | TSI, F            | D, PD, M                                   | * CO 36                         |   |  |        |        |        |        |      | C |
| Mudded Pipe Fittings ≈ 689 LF         | Throughout school above ceilings in corridors and classrooms.                        | TSI, F            | D, PD, M                                   | * CO 04, 05, 17, 30, 31, 33, 42 |   |  |        |        |        |        |      | C |
| Pipe Insulation ≈ 975 LF              | Throughout school above ceilings in corridors and classrooms, visible in boiler room | TSI, F            | D, PD, M                                   | * CO 43                         |   |  |        |        |        |        |      | C |
| Air-cell pipe insulation ≈ 22 LF      | Above sink in room 160   | M, NF             | ND, PD, L                                  |                                 | This material is a presumed material. This material could not be located during the current inspection. |  |        |        |        |        |      | C |
| Muffler Insulation ≈ 30 SF            | Generator Room   | TSI, F            | ND, PD, L                                  |                                 | This material is a presumed material.   |  |        |        |        |        |      | C |
| Roof drain fitting insulation ≈ 48 LF | Gyms   | TSI, F            | ND, PD, M                                  |                                 | This material is a presumed material.   |  |        |        |        |        |      | C |

Comments: \* indicates previously sampled material from original inspection.

- Key**
- Amount**  
 SF - square feet  
 LF - linear feet
- Fraility**  
 F - friable  
 NF - not friable
- Assessment**  
 ND - not damaged  
 D - damage  
 SD - significantly damaged  
 PD - potential for damage  
 PSD - potential for significant damage
- Type**  
 T - TSI  
 S - surfacing  
 M - misc.
- Assessment**  
 L - low access.  
 M - medium access.  
 H - high accessibility

**Six Month Surveillance & Re-inspections**

Fill in the corresponding box with a ✓ for no change in status of a material. Write details about changes in the comment area below the chart on the same page. The person conducting the surveillance must sign and date below.

|              |                               |                      |            |
|--------------|-------------------------------|----------------------|------------|
| 6-mo. Date:  | 18-mo. Date:                  | Signature:           | Signature: |
| 12-mo. Date: | 24-mo. Date:                  | Signature:           | Signature: |
| 30-mo. Date: | 3-YR Re-inspect: Date: 4/2011 | Signature: Dyma W... | Signature: |

# 3 YEAR RE-INSPECTION

## Consentino Middle School

April 2011

### ASSUMED AND PROVEN ASBESTOS-CONTAINING MATERIALS

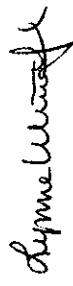
| Material & Amount  | Location  | Type & Friability | Assessment (ND, D, SD), (PD, PSD), (L, M, H) | Type/% Asbestos & # of Samples          | Comment   | Six Month Surveillances & Re-inspections |        |        |        |        |      |
|--|---|-------------------|--|---|---|--|--------|--------|--------|--------|------|
|  |   |                   |  |   |   | 6-mo.                                    | 12-mo. | 18-mo. | 24-mo. | 30-mo. | 3-YR |
| Vibration Isolator<br>≈ 20 SF (each)                               | Generator Room, Overhead Air Handlers in Gyms       | TSL, F            | ND, PD, M                                    | * CO 40                                 | This material is a presumed material. Two more samples should be collected to prove material is non-asbestos. |  |        |        |        |        | C    |
| Spray Applied Fireproofing<br>≈ 17,820 SF                          | Library, 1st and 2nd floor corridors and classrooms | TSL, F            | D, PD, M                                     | * CO 06<br>Hub ID<br>13304-2<br>14330-1 |   |  |        |        |        |        | C    |
| 12x12 Brown floor tile w/ white streaks<br>≈ 98,000 SF             | Throughout school unless noted below                | M, NF             | D, PD, L                                     | * CO 29, 30                             |   |  |        |        |        |        | C    |
| 12x12 Gray floor tile w/ white, black & orange streaks<br>≈ 432 SF | Teacher's resource room, Guidance,                  | M, NF             | D, PD, L                                     |   | This material is a presumed material.   |  |        |        |        |        | C    |

Comments: \* Indicates previously sampled material from original inspection.

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**Six Month Surveillance & Re-inspections**

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|              |            |                         |  |
|--------------|------------|-------------------------|--|
| 6-mo. Date:  | Signature: | 18-mo. Date:            | Signature:   |
| 12-mo. Date: | Signature: | 24-mo. Date:            | Signature:   |
| 30-mo. Date: | Signature: | 3-YR Re-inspect: 4/2011 | Signature:  |

# 3 YEAR RE-INSPECTION

## Consentino Middle School

April 2011

### ASSUMED AND PROVEN ASBESTOS-CONTAINING MATERIALS

| Material & Amount                                  | Location                         | Type & Friability | Assessment (ND, D, SD), (PD, PSD), (L, M, H) | Type/% Asbestos & # of Samples | Comment                               | Six Month Surveillances & Re-inspections |        |        |        |        |      |
|--|----------------------------------|-------------------|--|--------------------------------|---------------------------------------|--|--------|--------|--------|--------|------|
|  |                                  |                   |  |                                |                                       | 6-mo.                                    | 12-mo. | 18-mo. | 24-mo. | 30-mo. | 3-YR |
| 12x12 White floor tile w/ brown sploches ≈ 1332 SF | Teacher's room                   | M, NF             | D, PD, L                                     |                                | This material is a presumed material. |  |        |        |        |        | C    |
| 12x12 Gray Floor tile ≈ 1444 SF                    | Sewing                           | M, NF             | ND, PD, L                                    |                                | This material is a presumed material. |  |        |        |        |        | C    |
| Black mastic associated w/ floorings ≈ 100,000 SF  | Throughout School                | M, NF             | ND, PD, L                                    |                                | This material is a presumed material. |  |        |        |        |        | C    |
| Grout ≈ 2020 SF                                    | Associated with ceramic walls    | M, NF             | ND, PD, L                                    |                                | This material is a presumed material. |  |        |        |        |        | C    |
| Black window sills ≈ 3 SF (each)                   | 2 <sup>nd</sup> floor classrooms | M, NF             | ND, PD, L                                    |                                | This material is a presumed material. |  |        |        |        |        | C    |
| Tan Stair Treads ≈ 60 SF                           | Stairs                           | M, NF             | ND, PD, L                                    |                                | This material is a presumed material. |  |        |        |        |        | C    |

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**Six Month Surveillance & Re-inspections**

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|              |                        |            |
|--------------|------------------------|------------|
| 6-mo. Date:  | 18-mo. Date:           | Signature: |
| 12-mo. Date: | 24-mo. Date:           | Signature: |
| 30-mo. Date: | 3-YR Re-inspect. Date: | Signature: |

4/20/11  
 Signature: *Symone Williams*

# 3 YEAR RE-INSPECTION

## Consentino Middle School

April 2011

| ASSUMED AND PROVEN ASBESTOS-CONTAINING MATERIALS |                                      |                   |  |                                |   |  |        |        |        |        |      |
|--|--------------------------------------|-------------------|--|--------------------------------|---|--|--------|--------|--------|--------|------|
| Material & Amount                                | Location                             | Type & Friability | Assessment (ND, D, SD), (PD, PSD), (L, M, H) | Type/% Asbestos & # of Samples | Comment   | Six Month Surveillances & Re-inspections |        |        |        |        |      |
|  |                                      |                   |  |                                |   | 6-mo.                                    | 12-mo. | 18-mo. | 24-mo. | 30-mo. | 3-YR |
| Brown cove base<br>≈ 9740 SF                     | Throughout school                    | M, NF             | D, PD, L                                     |                                | This material is a presumed material. Damaged in room 17.         |  |        |        |        |        | C    |
| White cove base<br>≈ 120 LF                      | Teachers room                        | M, NF             | ND, PD, L                                    |                                | This material is a presumed material                              |  |        |        |        |        | C    |
| Cove base mastic                                 | Associated with cove base            | M, NF             | ND, PD, L                                    |                                | This material is a presumed material                              |  |        |        |        |        | C    |
| Chalk Boards<br>≈ 300 SF                         | Throughout school                    | M, NF             | ND, PD, L                                    |                                | This material is a presumed material                              |  |        |        |        |        | C    |
| Plaster, Grey<br>≈ 200 SF                        | Within metal vault walls in room 262 | M, NF             |  |                                | This material could not be located during the current inspection. |  |        |        |        |        | C    |
| Ceiling plaster                                  | Bathrooms, Room 16                   | M, NF             | D, PD, L                                     |                                | New material identified.  |  |        |        |        |        | C    |
| Glazing/Caulking                                 | Window walls                         | M, NF             | ND, PD, L                                    |                                | New material identified.  |  |        |        |        |        | C    |
| CMU grout  | Mixed throughout                     | M, NF             | ND, PD, L                                    |                                | New material identified.  |  |        |        |        |        | C    |
| Terrazzo   |                                      | M, NF             | ND, PD, L                                    |                                | New material identified.  |  |        |        |        |        | C    |
| Boiler insulation                                | Boiler room                          | TSI, F            | ND, PD, M                                    |                                | Weil-McLain series 2 AH-2094-WF                                   |  |        |        |        |        | C    |

Comments: \* Indicates previously sampled material from original inspection.

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**Six Month Surveillance & Re-inspections**

Fill in the corresponding box with a **Y** for no change in condition or a **C** for a change in the status of a material. Write details about changes in the comment area below the chart on the same page. The person conducting the surveillance must sign and date below.

|              |                          |            |            |
|--------------|--------------------------|------------|------------|
| 6-mo. Date:  | 18-mo. Date:             | Signature: | Signature: |
| 12-mo. Date: | 24-mo. Date:             | Signature: | Signature: |
| 30-mo. Date: | 3-YR Re-inspect: 4/20/11 | Signature: | Signature: |

## 3 YEAR RE-INSPECTION Consentino Middle School April 2011

| MATERIALS THAT HAVE BEEN ABATED/REMOVED OR PROVEN TO NOT CONTAIN ASBESTOS |   |   |  |
|---|---|---|--|
| Material  | Location  | Samples                                   | Comment  |
| Ceiling Plaster (≈ 800 SF)  | Boiler room   | CO 01, 02, 03                             | Previously sampled and found not to be asbestos containing |
| Plaster, Textured Wall Covering   | Cafeteria   | CO 14, 15, 16                             | Previously sampled and found not to be asbestos containing |
| 1x1 Thin fissured ceiling tile (≈ 100 000 SF)                             | Throughout school   | CO 09, 10, 23                             | Previously sampled and found not to be asbestos containing |
| 2x4 Thin fissured ceiling tiles w/ lots of dots (≈ 2800 SF)               | Locker rooms, Hallway west of gym, room 22, room 21                         | CO 17, 18<br>Hub ID 13246-1-2, 13246-1-3  | Previously sampled and found not to be asbestos containing |
| Duct insulation ≈ 200 SF  | Canvas covered duct in room above boys locker room                          | CO 50, 20<br>Hub ID 13246-1-1             | Previously sampled and found not to be asbestos containing |
| Sheetrock wallboard partitions  | Between rms. 222-223, 223-224, 239-240, 303-304, 323-324, 325-326, 326-327. | CO 50, 20<br>Hub ID 13246-1-5, 13246-1-6  | Previously sampled and found not to be asbestos containing |
| Off White Pull down shades  | 90% School Windows  | CO 50, 20<br>Hub ID 13246-1-7, 13246-1-8  | Previously sampled and found not to be asbestos containing |
| Deck plaster  | Room 34   | Hub ID 13304-7, 13304-8, 13304-9          | Previously sampled and found not to be asbestos containing |
| Lab/Table tops black (≈ 1126 SF)  | Room 27 & 28  | Hub ID 21717-1, 21717-2, 21717-3, 21717-4 | Previously sampled and found not to be asbestos containing |

**Key**

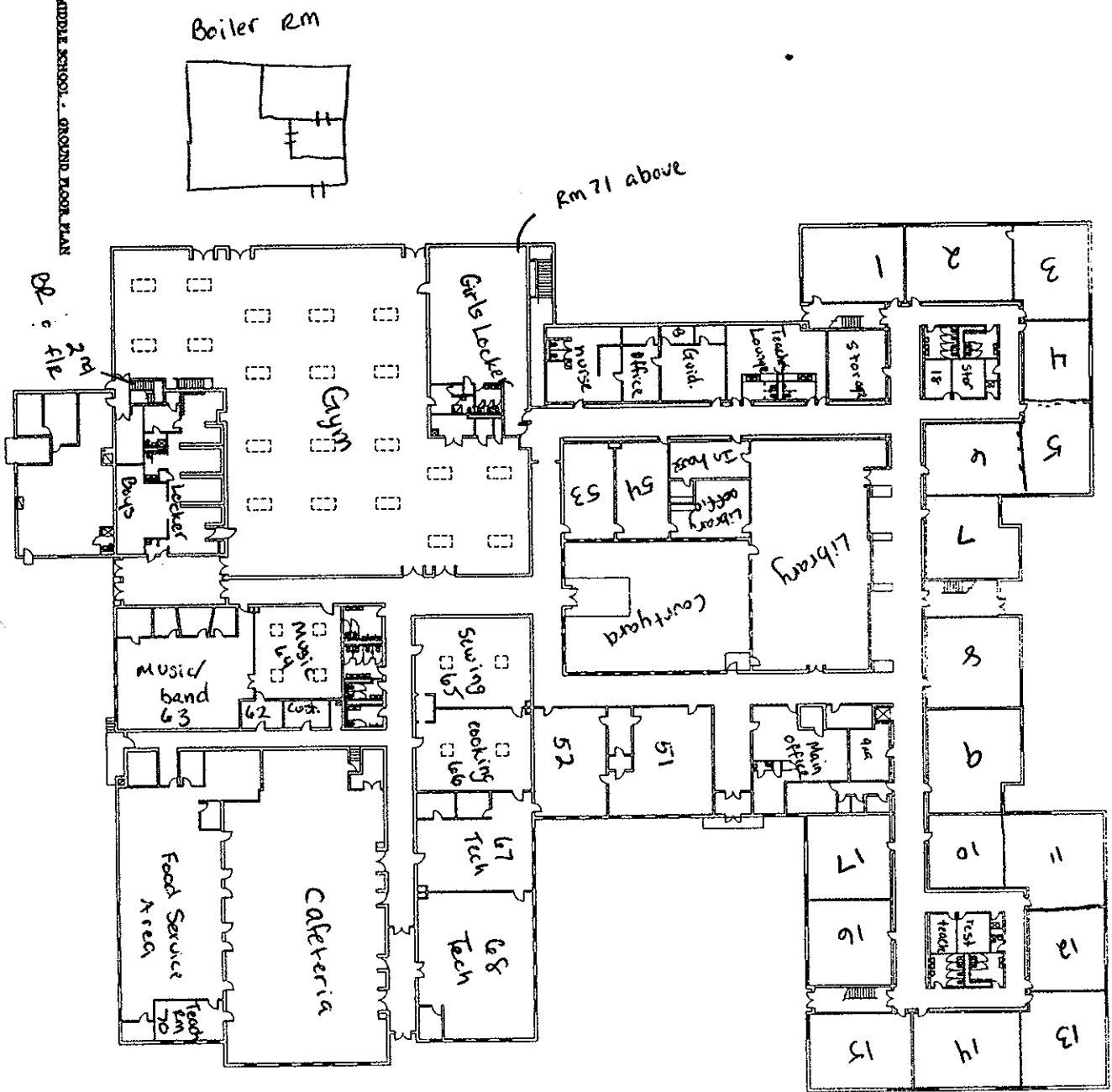
|   |  |  |
|---|--|--|
| <b>Amount</b><br>SF – square feet<br>LF – linear feet<br><br><b>Type</b><br>T – TSI<br>S – surfacing<br>M – misc. | <b>Friability</b><br>F – friable<br>NF – not friable<br><br><b>Assessment</b><br>L – low access.<br>M – medium access.<br>H – high accessibility | <b>Assessment</b><br>ND – not damaged<br>D – damage<br>SD – significantly damaged<br>PD – potential for damage<br>PSD – potential for significant damage |
|---|--|--|

**Comments:** \* Indicates previously sampled material from original inspection.

**Six Month Surveillance & Re-inspections**  
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|              |            |                               |
|--------------|------------|-------------------------------|
| 6-mo. Date:  | Signature: | Signature:                    |
| 12-mo. Date: | Signature: | Signature: <i>Lynne Wurst</i> |
| 30-mo. Date: | Signature: | Signature: <i>Lynne Wurst</i> |

CONSENTINO MIDDLE SCHOOL - GROUND FLOOR PLAN



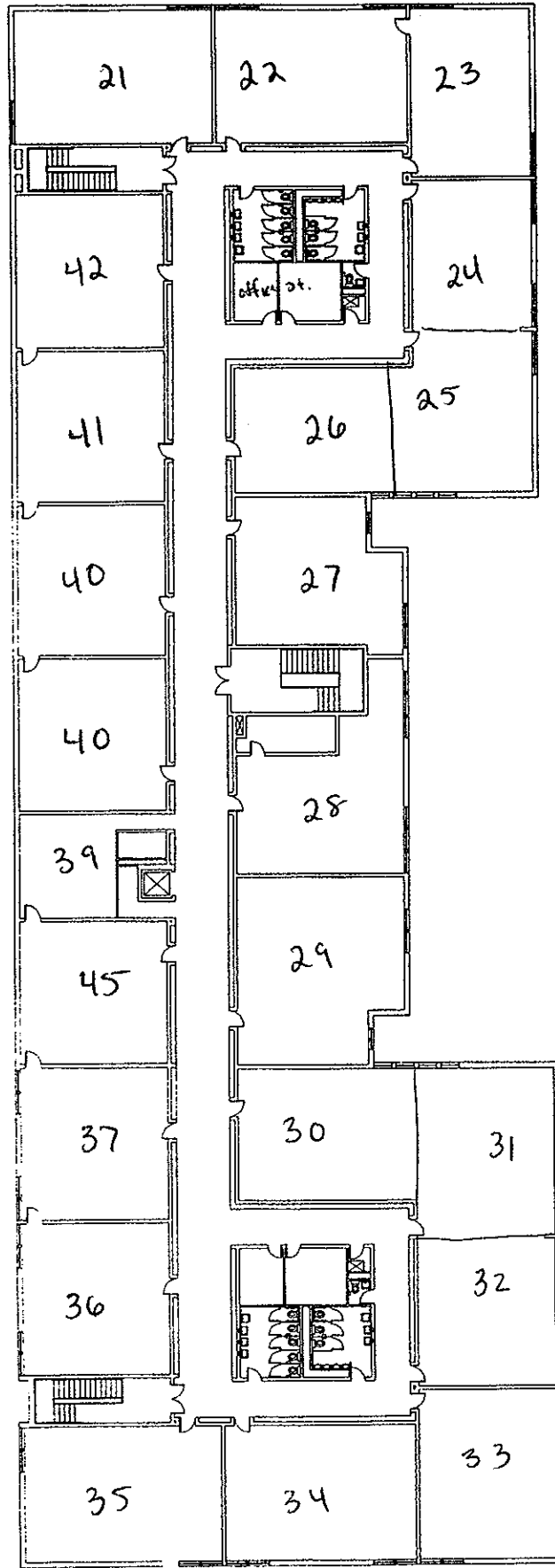
**A1.01**  
 EXISTING GROUND FLOOR PLAN  
 SCALE: 1/8" = 1'-0"  
 DATE: 11/15/11  
 DRAWN BY: [Name]  
 CHECKED BY: [Name]

**CONSENTINO MIDDLE SCHOOL**  
 685 WASHINGTON STREET • HAVERHILL, MA

**ARCADD, INC.**  
 ARCHITECTURAL FIRM  
 100 WASHINGTON STREET  
 HAVERHILL, MA 01830  
 TEL: (978) 885-1000  
 FAX: (978) 885-1001  
 WWW.ARCADD.COM



HAVERHILL HIGH SCHOOL - PART 2 - GROUND FLOOR PLAN



A102  
 DATE: 08/11/09  
 DRAWN BY: [illegible]  
 CHECKED BY: [illegible]  
 DATE: 08/11/09

EXISTING FIRST  
 FLOOR PLAN  
 SCALE: 1/8" = 1'-0"  
 DATE: 08/11/09

**CONSENTINO MIDDLE SCHOOL**  
 685 WASHINGTON STREET - HAVERHILL, MA

ARCADD, INC.  
 ARCHITECTURAL FIRM  
 1000 NORTH ST. SUITE 200  
 HAVERHILL, MA 01830  
 TEL: 978.371.1000  
 FAX: 978.371.1001  
 WWW.ARCADD.COM