

## Meeting Notes

### Department and Staff Meetings

To have a full understanding of each school's operation, organization and program offerings, a series of meetings were conducted with administrators and representatives of the staff, which included department heads, team leaders and individual faculty members, to solicit their input. Also identified during these meetings were any deficiencies that may currently exist either in the facility or with the educational programming to better understand what changes may be needed through upgrades, renovations or additions.

Although the Jordan Acres Elementary School is closed at this time, several former staff members who currently teach at the Stowe and Coffin Schools provided background information on how the school functioned when it was open.

There were no meetings conducted to gather information on the Harriet Beecher Stowe School since it is new and no changes to the school are planned at this time (besides the potential relocation of the second grade students from Stowe to another school).

Copies of all the meeting notes, including other information gathered from staff are included hereafter.

Auburn Business Park  
46 Harriman Drive  
Auburn, Maine 04210

207.784.5100 tel  
207.782.3017 fax  
www.harriman.com

## MEETING NOTES

Building communities  
since 1870

To	
Paul Perzanoski, Facilities Committee, John Paige, Jean Skorapa, Paul Austin, JPL, RDM, JWT, BKB, FILE	
From	
Jeff Larimer	
Date	
December 5, 2011	
Project	
Brunswick School Department Facilities Master Plan Study Brunswick, ME Project No. 11533	
Subject	
STAFF MEETING OF NOVEMBER 28, 2011	
Present	
Jill Hodgdon	HBS Music
Shane Hutchings	HBS/Coffin PE
Lynn D'Agostino	HBS PE (previously JA)
Nancy Gray	HBS Art (previously Coffin)
Wende Sairio	HBS Library (previously Longfellow)
Margy Soule	Coffin Library
Sharon McCormack	BJRH/Coffin Art
Danielle Murphy	Coffin Music
Janet Rivard	Coffin Nurse
Emily Moll	HBS Art (previously Longfellow)
Nancy Farrand	HBS Counselor (previously JA)
Cindy Brown	HBS Music
Paul Austin	BSD Director of Student Services
Jeff Larimer	Harriman

The purpose of the meeting was to solicit input from the specialist staff regarding the future use of the Coffin and Jordan Acres Schools.

1. Jordan Acres
  - a. Both Coffin and Jordan Acres lack space for the art and music programs.
  - b. Jordan Acres lacked space for special services such as reading, speech, OT/PT, tutorial, etc. Privacy was also a concern at Jordan Acres because of the open concept plan and the lack of private spaces.
  - c. The library at Jordan Acres is in the center of the building, which is good, but it is open to all other spaces. The library should be overhauled. It is also at a lower level than the rest of the building. There is one ramp from one side of the building only.

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- d. Circulation through Jordan Acres is difficult in that you need to pass through either the library or the multi-purpose space to get from one side to the other.
  - e. Because of the open concept plan, there was a sense of community at the school and a lot of collaboration. The three classes within a single pod tended to work together as a team. However, noise was a problem.
  - f. The gym needs to be a separate space from the cafeteria. The current multi-purpose space accommodates gym, cafeteria and assembly functions.
2. Coffin
  - a. Coffin also lacks space for art and music programs. Depending on the configuration and number of students, there may be a need for more than one art or music room.
  - b. Similar to JA, Coffin also lacks adequate space for similar special services.
  - c. Coffin is a large single story school that requires kids to do a lot of walking. Not particularly good for the smaller kids. It is a long distance from the Kindergarten classrooms to the cafeteria.
  - d. Nurse's office needs to be centrally located for easier access.
3. Special education staff was invited to this meeting but were not able to attend.
4. Paul Austin to prepare a list of spaces that should be at each school for special services.

*If written notice is not received within two weeks of receipt, the above meeting notes represent an accurate summary of the meeting and its conclusions.*

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To Paul Perzanoski, Facilities Committee, John Paige, Jean Skorapa, JPL, RDM, JWT, BKB, FILE

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From Jeff Larimer

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Date December 5, 2011

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Project Brunswick School Department  
Facilities Master Plan Study  
Brunswick, ME  
Project No. 11533

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Subject COFFIN SCHOOL STAFF MEETING OF NOVEMBER 29, 2011

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Present	
John Paige	Principal, Coffin
Kathy Richards	Kindergarten, Coffin
Muriel Milne	Grade 1, Coffin
Stephanie Lucas	Kindergarten, Coffin
Jeanie Doughty	Grade 1, Coffin
Leslie Soule	Grade 1, Coffin
Sharon McCormack	Art, Coffin
Jeff Larimer	Harriman

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The purpose of the meeting was to solicit input for the master plan study from the Coffin staff regarding the future use and configuration of the Coffin School. The master plan study is initially looking at the Coffin and Jordan Acres Schools to determine if Jordan Acres should reopen and, if so, what grade configuration would it be? The potential impact on Coffin will depend on whether or not Jordan Acres is closed permanently or reopened and the possible grade configurations.

1. The Coffin School is stretched out making it difficult for kindergarteners to travel the distances involved. As it is currently arranged, they feel Coffin is inappropriate for kindergarten students.
2. The kindergarten classrooms are too small and are overcrowded. Per current standards only two classrooms at Coffin are of the appropriate size for kindergarten use. These are Classrooms 1 and 2 at the east end of the front wing which are approximately 1,200 sf each. The remainder of the classrooms in the front wing that are currently being used for kindergarten are undersized and the number of students per class are high, approximately 20 students each.
3. There is an imbalance in temperatures throughout the building. Those on the extreme ends of the building tend to have less heat.
4. There are not enough toilet rooms in the building. Ideally classrooms for kindergartners, and even 1<sup>st</sup> grade, should have toilets within the rooms. There is also a lack of staff toilets as well. None of the toilet rooms are handicap accessible.



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5. The gym, which is used for assemblies, has bad acoustics.
6. Have concerns about all the technology wiring that has been added over the years and how it runs exposed in a lot of areas.
7. The number of receptacles need to be increased in the classrooms.
8. Clocks are battery operated so the time is not consistent from classroom to classroom. Would like to see a new master clock system installed so the time is the same throughout.

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**Coffin School**

In general, I believe that the plans that I participated in making with Danny Cecil (Harriman's) some ten years ago are still applicable. In particular, I refer to the plan for an addition on the front left corner of the building that would include a new library/media center along with an adequate number of tutorial rooms. While I think that this may be a more modest addition than the other one envisioned with a corridor leading to a rectangular addition that connects with the front doors, thus blocking the roadway. I do like the part of that plan that redesigned the parking and traffic patterns. The other advantage of that plan was the elimination of the front mobiles. While there is much to be said about the value of this plan and the remodeling of our playgrounds, what money we have may best be spent on meeting our needs inside the building. With this in mind, here is my thinking as informed by input from my staff:

Go with the addition front left for the new library/media/tutoring/special services and health center along with the removal of the back mobiles and the following renovations:

- Current library/lab converted back into classrooms
- Entire school needs electrical upgrade in order to meet current equipment needs and safety specs. Classrooms also have major plumbing issues that need upgrades.
- Remodel FLS area to include bathroom with a changing table and correctly vented/wired appliances.
- Remodel or relocate OT/PT space, and health office
- Need more effective temperature controls in rooms/building.
- Rethink the bathroom situation in light of K-2 student population.
- Rethink coat/backpack storage system in rooms
- Relocate art and music rooms in main building. Art room will need kiln room. Both programs have unique storage needs.
- Wireless access from every classroom
- New & larger network closet
- Power high on wall or on ceiling in every room for IWB's
- Network access on 2 walls of every room (to allow for IWB, teacher, student access.)
- Ventilation in computer lab similar to BJHS computer labs (Mr. Slim units)
- Tech office with area to work on equipment and store backup equipment.
- Remodel bathrooms in gym & add sound panels to deaden echo in gym.
- Address heat issue in Discovery Room, current faculty & speech rooms.
- Reading Recovery could use a behind-the-glass room.
- Need modern security system that would allow teachers access to the building when school isn't in session.
- Little kids need carpeted areas for group activities – currently all tile.
- Assuming that there will be 12-15 regular classrooms in the K-2 school, clearly an addition will be necessary to replace the Early Childhood Center space.

# \* Coffin School Map \*



### **Jordan Acres**

- Take out the risers in all the amphitheaters to make them usable classrooms.
- Make 1<sup>st</sup> grade amphitheater into music because it has its own entrance from the outside.
- Make the 4<sup>th</sup> and 5<sup>th</sup> grade amphitheaters into special education spaces.
- Remodel some of the current library space into tutorial rooms for the specialists.
- Create/add an art room with adequate storage and a kiln room.
- Find space for a larger teacher's room & add a work room for teachers that can house the necessary equipment & materials.
- Incorporate walls with display areas where possible.
- Larger OT/PT space with suspended equipment capability & floor space.
- Separate cafeteria space from gym.
- Library needs to have its own restrooms.
- More accessible electrical outlets in all classrooms.
- Adequate "cubby" storage space for kids stuff.
- Adequate storage for classroom books and materials.
- Modern security system that allows teachers access to building when not in session.
- More durable flooring in the classroom areas.
- Wireless access throughout.
- Brighten up front entryway with lighting, paint or skylights.
- More storage capacity.

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## MEETING NOTES

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To	Paul Perzanoski, Facilities Committee, John Paige, Jean Skorapa, JPL, RDM, JWT, BKB, FILE													
From	Jeff Larimer													
Date	December 5, 2011													
Project	Brunswick School Department Facilities Master Plan Study Brunswick, ME Project No. 11533													
Subject	STAFF MEETING OF NOVEMBER 30, 2011													
Present	<table><tr><td>Margy Soule</td><td>Coffin/JA Libraries</td></tr><tr><td>Cheryl White</td><td>BSD Administration</td></tr><tr><td>Theresa Heald</td><td>Coffin/JA Speech</td></tr><tr><td>Stephanie Lucas</td><td>Coffin/JA Kindergarten</td></tr><tr><td>Cathy Fifield</td><td>Coffin/JA Kindergarten</td></tr><tr><td>Jeff Larimer</td><td>Harriman</td></tr></table>		Margy Soule	Coffin/JA Libraries	Cheryl White	BSD Administration	Theresa Heald	Coffin/JA Speech	Stephanie Lucas	Coffin/JA Kindergarten	Cathy Fifield	Coffin/JA Kindergarten	Jeff Larimer	Harriman
Margy Soule	Coffin/JA Libraries													
Cheryl White	BSD Administration													
Theresa Heald	Coffin/JA Speech													
Stephanie Lucas	Coffin/JA Kindergarten													
Cathy Fifield	Coffin/JA Kindergarten													
Jeff Larimer	Harriman													

The purpose of the meeting was to solicit input for the master plan study from former Jordan Acres staff regarding the future reuse of the Jordan Acres School. The master plan study is initially looking at the Coffin and Jordan Acres Schools to determine if Jordan Acres should reopen and, if so, what grade configuration would it be? The potential impact on Coffin will depend on whether or not Jordan Acres is closed permanently or reopened and the possible grade configurations.

1. The open concept plan at Jordan Acres allowed for collaboration but was noisy and distractive. It becomes more difficult when you had a disruptive student as it would affect an entire pod.
2. Jordan Acres lacked space for art, music and special services.
3. Using Jordan Acres for a possible kindergarten center may work as kindergarten students need large open spaces for various activities. Coffin is not appropriate for kindergarteners.
4. Will be evaluating whether or not to include a Pre-K program at Jordan Acres. Brunswick currently does not have a Pre-K program. If one were to be implemented, would it be located at Jordan Acres if JA becomes a kindergarten center?
5. Bussing all kindergarten students to one location may be a concern. Review with transportation.

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## MEETING NOTES

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To	Paul Perzanoski, Facilities Committee, John Paige, Jean Skorapa, Craig Worth, JPL, RDM, JWT, BKB, FILE								
From	Jeff Larimer								
Date	December 6, 2011								
Project	Brunswick School Department Facilities Master Plan Study Brunswick, ME Project No. 11533								
Subject	TRANSPORTATION MEETING OF DECEMBER 1, 2011								
Present	<table><tr><td>Craig Worth</td><td>BSD Director of Transportation</td></tr><tr><td>Paul Caron</td><td>BSD Director of Facilities</td></tr><tr><td>Jeff Larimer</td><td>Harriman</td></tr></table>			Craig Worth	BSD Director of Transportation	Paul Caron	BSD Director of Facilities	Jeff Larimer	Harriman
Craig Worth	BSD Director of Transportation								
Paul Caron	BSD Director of Facilities								
Jeff Larimer	Harriman								

The purpose of the meeting was to solicit input from transportation regarding the future use of the Coffin and Jordan Acres Schools and their impact on busing. The master plan study is initially looking at the Coffin and Jordan Acres Schools to determine if Jordan Acres should reopen and, if so, what grade configuration would it be? The potential impact on Coffin will depend on whether or not Jordan Acres is closed permanently or reopened.

1. There are currently two bus runs in the morning and two in the afternoon.
  - a. BHS & BJHS 6:30 – 8:00 am 2:10 – 3:10 pm
  - b. Coffin & HBS 8:00 – 9:00 am 3:10 – 4:30 pm (This was same for Coffin and JA)
2. Prior to the closure of Jordan Acres and Longfellow and the opening of Harriet Beecher Stowe, Coffin, Jordan Acres and Longfellow were all K-5 schools.
3. Currently Coffin houses K-1 and HBS houses 2-5. Had JA stayed open, the plan was for Coffin and JA to house K-2 with HBS housing 3-5.
4. Some options being considered:
  - a. Close JA permanently. Make Coffin K-2 and HBS 3-5.
  - b. Reopen JA as a kindergarten center. Make Coffin 1-2 and HBS 3-5.
  - c. Reopen JA as a K-2. Make Coffin also K-2 and HBS 3-5.
5. The master plan study is intended to evaluate the above options, and possibly others, for consideration by the school board to determine whether or not to reopen JA.
6. Craig speculated that the first option of keeping JA closed would keep the budget for busing as it is now while the other two options would increase busing costs. He thought that reopening JA as a kindergarten center only would increase costs the most since each bus route would then have to

## H A R R I M A N

serve three individual schools. If JA and Coffin were both to become K-2, then the town would be divided roughly in half. For example, students in the eastern part of town would attend JA and students in the western part of town would attend Coffin.

7. With JA as a kindergarten center Craig figured that the bus runs would also end up being longer because of having to drop students off at three separate locations.
8. The school department has 27 buses of which 18 are used on a daily basis to run 18 routes. The other 9 buses are reserved for other functions such as class trips or sports activities.
9. Another part of the study is to determine if the bus garage is to stay in its present location or possibly being relocated to the Times Record building as part of a consolidation of all central office activities.
10. Should the bus garage be relocated to another site, then that would improve some options for reconfiguring the circulation at the Coffin/BJHS site which has safety concerns. Currently some buses travel in front of Coffin School, where the greatest concern is, while others do travel behind the school. Improving circulation on this site is considered a priority.

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To	Paul Perzanoski, Facilities Committee, Sue Woodhams, JPL, RDM, JWT, BKB, FILE									
From	Jeff Larimer									
Date	December 19, 2011 <b>Revised January 12, 2012</b>									
Project	Brunswick School Department Facilities Master Plan Study Brunswick, ME Project No. 11533									
Subject	INFORMATION TECHNOLOGY MEETING OF DECEMBER 13, 2011									
Present	<table><tr><td>Sue Woodhams</td><td>BSD Director of Technology Integration</td></tr><tr><td>Mike Hedger</td><td>BSD District Technology Specialist</td></tr><tr><td>Jeff Larimer</td><td>Harriman</td></tr><tr><td>John Tarr</td><td>Harriman</td></tr></table>		Sue Woodhams	BSD Director of Technology Integration	Mike Hedger	BSD District Technology Specialist	Jeff Larimer	Harriman	John Tarr	Harriman
Sue Woodhams	BSD Director of Technology Integration									
Mike Hedger	BSD District Technology Specialist									
Jeff Larimer	Harriman									
John Tarr	Harriman									

The purpose of the meeting was to solicit information about the technology needs for the Brunswick schools.

1. General technology goals for all schools:
  - a. Wireless access from every classroom.
  - b. Power high on walls or on ceiling in every room for IWB's.
  - c. Network access on at least two walls of every room to allow for IWB, teacher and student access.
  - d. Ventilation in all computer labs (e.g. Mr. Slim units).
  - e. Tech office with work area to work on equipment and store backup equipment.
  - f. Larger network closet with ventilation.
  - g. Updated cat6 wiring in all buildings. (Some only have cat3.)
2. Some specific issues that they would like to see addressed:
  - a. Brunswick Junior High: Would like to move all district servers from BJH to new Stowe School.
  - b. Brunswick High School: Need to add a separate network closet. Currently equipment is located in an office that is not vented properly and is very loud.
  - c. Jordan Acres: Needs a network closet.
  - d. Stowe School: Tech office lacks ventilation and would like to move tech office to room next to network room.
  - e. **Coffin: Remodel network closet to meet current codes.**
3. Sound system: Currently using Lightspeed, CAT 855 audio hub.
4. Coffin School: School has wireless but has problems.
5. Sue provided a copy of the current Technology Plan dated July 1, 2011 – July 1, 2014.

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To  
Paul Perzanoski, Facilities Committee, Walter Wallace, Lisa Cushman, JPL, RDM, JWT, BKB,  
FILE

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From  
Jeff Larimer

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Date  
February 9, 2012

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Project  
Brunswick School Department  
Facilities Master Plan Study  
Brunswick, ME  
Project No. 11533

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Subject  
STAFF MEETINGS OF FEBRUARY 9, 2012

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Present  
Jeff Larimer                      Harriman  
See below for attendees at each meeting

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1. Team Leaders – Lisa Cushman (Assist. Principal), Sharon Callahan (8<sup>th</sup> grade), Matt Cost (7<sup>th</sup> grade), Carla Shaw (7<sup>th</sup> grade), Bunny Andrews (Counselor), Nancy Guest (Counselor), Laura Hench (6<sup>th</sup> grade), Kyra Salancy (8<sup>th</sup> grade), Kim Sampietro (Reading Strategist), Betsey Mitchell (Librarian).
  - a. Team gathering space – two different opinions:
    - i. Would like to have a large multi-purpose room that could accommodate an entire team up to 100 people. Room would have a level floor, a high ceiling and storage for tables and chairs.
    - ii. Amphitheater style similar to ones at JA with carpeted, stepped risers that could accommodate a team of 80-100 people.
  - b. Guidance area needs to be more centralized. Current space is remote and is like a “fish bowl”. Confidentiality is important. Offices lack any privacy. They need to be sound-proofed. There needs to be a separate waiting area with space to allow people to register when they come in.
  - c. Toilet facilities
    - i. More staff toilets are needed throughout the building.
    - ii. Consider individual toilets for students in lieu of gang toilets.
  - d. Outdoor gathering area, possibly adjacent to the cafeteria. Grass terraced area for teams or groups of students to gather.

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- e. There are currently no team or conference rooms. When considering areas for teams to meet, there are more than just academic teams, such as Library, media and IT.
  - f. Classrooms:
    - i. Get rid of carpet. Most of it is old and worn. Install cleaner floors. Library, for example, is dirty because of the carpet.
    - ii. Need additional bookshelves and storage.
    - iii. Blinds and shades need replacement. Need to be able to better control the day light in rooms. Can't darken rooms. Too much glare makes using "Smart" boards difficult.
  - g. Review locker sizes, configuration and placement for better student usage.
  - h. Evaluate existing heating system. Some rooms are either too hot or too cold or both. Guidance area, for example, has a lot of fluctuations in temperature.
  - i. Improved teacher's room/lounge. Only one is located on 2<sup>nd</sup> floor of 200 wing. This is separate from the work room, which located in the middle of the admin offices.
  - j. See attached notes submitted by staff for additional comments.
2. Administrative Staff – Cindy Stevens and Ethel Granholm
- a. Admin staff consists of two people – Cindy and Ethel. Cindy is the admin secretary for the principal and Ethel is the admin secretary for the assistant principal as well as the receptionist.
  - b. Current reception area is like a "fish bowl" and is separate from rest of administrative area – no direct access between them other than a window.
  - c. Main lobby is not secure. It is possible that someone could enter and access the building without being noticed.
  - d. Arrangement of the admin offices is poor and should be reconfigured to improve access and interaction. Principal's and assistant principal's offices are remote from the administrative office and is separated by the teacher's work room, which should be relocated.
  - e. Intercom system is located in the reception office. Phone system is located in the administrative office. Physical separation of space makes use of one or the other difficult should one person be away from their desk.
  - f. Administrative area lacks a conference room and adequate storage for supplies. School records are stored in the Guidance area.

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## Birch Island Building Upgrade Suggestions (6TH GRADE)

### For the team/general ideas:

- An indoor meeting space large enough for the whole team
- Outdoor meeting space/activity area in the area where the mobile unit used to be. Grass not dirt!!!
- White boards in each room which are the same and training for all. No blackboards
- More grounded power strips/outlets; more phone and internet jacks.
- Dimmable lights
- Black-out window treatments for windows (*esp. room 315*—can't see the whiteboard projection on sunny days)
- No carpeting in rooms OR low-impact and/or acoustically friendly tiles
- A dedicated printer more centrally located.
- Storage area for laptop carts.
- More bulletin boards or even push-pin strips in the hallways for posting student work. Taping work on the wood above lockers is cumbersome.
- More water fountains.
- Bigger lockers
- Better bathroom space for students (closer to our classrooms)

### For staff

- More bathrooms with **HOT** water; not a trough sink
- Teacher break room (lunch room) on the first floor with updated (clean) equipment/furniture. Currently we spend precious minutes of our 20-minute lunch break waiting in line to use a microwave that is located behind a teacher's desk, our lunch is stored in a small refrigerator in another room, and a coffee machine in yet another room, in another hallway. Teachers actually purchase meals that can cook in less than 3 minutes in order to have enough time to eat. Other teachers walk upstairs to the 2<sup>nd</sup> floor break room.

### Specific room needs:

Security: locking door on room 306

Room 315: More shelving/storage. The floor sinks from hallway doorways into the room (so things on wheels move to center).

Room 308: (science) Need a sink with floor drain.

Windows that can open to allow easy emergency egress

### Building Wish List - Team Bailey (6TH GRADE)

- Common meeting space for team activities - large enough for whole grade level, dept. or team to meet and work
- All classrooms for the team in the same hallway
- Heating systems in the classroom
- Cable TV in the classrooms
- Bigger classrooms
- Outlets in the classroom
- Chairs (311)
- New tables (311)
- Centrally located copy rooms on each floor
- White boards and interactive white boards in each room which are the same and training for all
- Plenty of cork space to hang student work, posters, ect.
- More grounded power strips/outlets; more phone and internet jacks
- Black out window treatments for windows
- More shelves within the classroom
- Replace the old, stained, bright red carpet from rooms
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts (out of teacher's classroom when not being used)
- Teacher break room (lunch room) on the first floor with updated (clean) equipment/ furniture. Access to multiple microwaves
- Additional teacher bathrooms
- Interactive white boards in each room which are the same and training for all.
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (SS and LA, next to each other on teams - for cross curricular opportunities)
- Dimmable lights (Will help my migraines and those of my students.)
- Darkening shades for windows with new fixtures.
- Shelves and closets within the classroom
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts.
- Centrally located restrooms on each floor, not far from team rooms.
- Closets/ bookshelves
- Windows that open

## STAFF QUESTIONNAIRE

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Your Name & Current Position: CARLA SHAW, 7th GRADE MATH (GDI)

2. Current Room Name and/or Number: # 309

3. Average Number of Students per Class: 20

4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.) I AM A VERY PHYSICAL TEACHER. I MOVE AROUND A LOT AND TEACH FROM DIFFERENT AREAS OF THE ROOM. I ALSO USE THE INTERACTIVE WHITE BOARD OFTEN. STUDENTS LEARN INDIVIDUALLY, IN

5. Type of work performed: (Describe the work you do for your particular educational program.) PAIRS, + IN GROUPS  
Movement - both students and teachers.

6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)

7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)

I WOULD PREFER TO BE AWAY FROM THE BAND/MUSIC ROOMS. I THINK THE NOISE WOULD BE DISTRACTING

8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)

Individual student bathrooms. Include ventilation + hot water in student bathrooms.

9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)

CAPACITY: 100 (A WHOLE TEAM) A FLAT 2 STORY MULTI-PURPOSE ROOM WITH TILE OR LINOLEUM FLOOR, GOOD ACOUSTICS, CLOSET TO HOUSE FOLDING CHAIRS + TABLES, VENTILATION

10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)

RAISED, FLAT PODIUM TYPE, PIECE OF FURNITURE TO SUPPORT LAPTOP OR OTHER RESOURCES WHEN TEACHING - CREATING THE ABILITY TO STAND AND TEACH

11. Special Storage Requirements: (Please describe your needs for shelving, casework, closets, etc.?)

12. Finishes: (What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)

REMOVE CARPET - REPLACE WITH NON-CARPET FLOORING  
TOP WINDOW ON FAR RIGHT STICKS/RUBS.

13. Acoustic Requirements: (Do you require any special acoustic isolation or sound treatment for your room?)

N/A

14. Mechanical Requirements: (In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)

N/A

15. Plumbing Requirements: (Do you have any special requirements for sinks, water fountains, floor drains, etc.?)

N/A

16. Electrical and Technology Requirements: (In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)

17. Lighting Requirements: (In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)

DIMMER SWITCHES ON LIGHTS WOULD BE IDEAL.

BLACK OUT SHADES FOR TOP WINDOWS - BE ABLE TO OPEN & CLOSE THEM.

18. Security Requirements: (What suggestions do you have to improve the security of the building and the site?)

19. Accessibility: (What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)

20. Site Development and Outdoor Activity Spaces: (What could be improved in the overall site and outdoor activity spaces?)

Front Entry needs an overhaul.  
Grassy, outdoor meeting area.

21. Other Spaces: (Are there any other program spaces that should be added?)

SEE #10

LEAKY WINDOWS IN  
ROOMS #105 + #109

## Sharon Callahan

---

From: Julia Swan  
Sent: Monday, February 06, 2012 3:30 PM  
To: Sharon Callahan  
Subject: Renovations

(8TH GRADE)

Sharon:

Room 209

Here are my renovation wishes:

- 1) a refreshed and pleasing front lobby
- 2) more adult bathrooms on the 2nd floor and added ventilation
- 3) new carpet in my room
- 4) a school auditorium which holds 200-800 people
- 5) more outlets in the front of my room
- 6) an updated teacher lounge NOT right by the restrooms

Julia

Room 211

More upstairs faculty bathrooms

Update Teachers' room- microwave that works well.

Shades or blinds in 211

Better shelving under counters

More bulletin board space

White boards

For Team:

Amphitheater type space where all (80-100) might gather.

Sharon Callahan

Room 210

From: Susan Blake (SOCIAL STUDIES)  
 Sent: Tuesday, February 07, 2012 10:45 AM  
 To: Wendy Arzate; Russell Pierson; Felicity Beede; Janelle El Ghazouani; Matthew Cost; Nancy Burnette  
 Cc: Sharon Callahan; Julia Swan; Diane Bowen  
 Subject: Re: SS Dept. Agenda for Wednesday

- I am going to piggy back on Wendy's list:
- TV on a wall mount in the corner of my room to watch important news stories, etc...
- DVD/VCR mounted somewhere???
- Detached desks to promote multiple grouping options in the classroom
- Interactive white boards in each room which are the same and training for all.
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (ss and LA, next to each other on teams – for cross curricular opportunities)
- Dimmable lights (Will help my migraines and those of my students.)
- Darkening shades for windows with new fixtures.
- Shelves and closets within the classroom
- Please pull up my carpeting!!!
- More teacher bathrooms on the 2nd floor

DVD player or VCR combo per team

On 2/7/12 8:25 AM, "Wendy Arzate" <WArzate@brunswick.k12.me.us> wrote:

- An indoor meeting space large enough for the whole grade level dept. or team to meet and work.
- Detached desks to promote multiple grouping options in the classroom
- Centrally located copy rooms on each floor.
- Outdoor meeting space/activity area in the area where the mobile unit used to be. Grass not dirt!!!
- White boards (out with chalk) and interactive white boards in each room which are the same and training for all.
- Plenty of cork space to hang student work, posters, etc...
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (ss and LA, next to each other on teams – for cross curricular opportunities)
- Dimmable lights
- Black-out window treatments for windows
- Shelves and closets within the classroom
- I like carpeting, love to have the ability to have kids working on the floor
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts.
- Centrally located restrooms on each floor, not far from team rooms.
- DVD player or VCR combo per team
- 

2/7/2012



**February 9, 2012**

**Prepared For:** Harriman

**Prepared By:** Betsy Mitchell, Librarian, BJHS with input from Media Team members.

**Re: Facilities Study:** Brunswick Junior High School.

**Team:** Media Team and Departments (Library and Technology)

1. **Name & Position:** Elizabeth (Betsy) Mitchell – Librarian BJHS – Media Team Leader
  - **Team Members:**
  - Jane Cullen – Library Assistant
  - Dan Dearing – Technology Integrator (BJHS and Brunswick High School)
  - Jill Bernier – Computer Specialist (BJHS and Coffin School)
  - Jerry Cross – MLTI Technology Coordinator (BJHS and Brunswick High School)
2. **Room Number:** Library 201, Library Office (201 D), Photocopy Room (201 E), Lab 1 (201 F), Technology Office (?# off Lab 1) Lab 2 (203)
3. **Average Number of Students per Class:** N/A
4. **Describe your particular program:**
  - **Library Goals**
    - Through instruction, to develop in students the skills necessary to effectively use print and electronic sources of information.
    - To select, manage, and organize suitable recreational and curriculum-related print and electronic resources that cater to a wide scope of abilities and learning styles.
    - To support faculty in the identification, acquisition, retrieval, and delivery of curriculum support materials for classroom use
    - To provide special services including instruction in the use of electronic sources and A/V equipment.
  - **Technology Integrator Goals**– Integration of technology into curricula (working with students, teachers, administrators and staff).
  - **Computer Specialist Goals**- Hardware/software support for Labs, PC computers and printers.
  - **MLTI Coordinator Goals**– Management and technical support for the MLTI computers.

5. **Type of Work Performed:** As above.

6. **Organizational Principles:**

- Centralize library on first floor – at minimum, maintain current space allotment, or enlarge.
- Adjoin Labs with library as is the case with the current setup.
- Centralize technology department near library on first floor.
- Bathroom immediate to both areas---reduces students' excuses to leave and wander.

7. **Required Adjacencies/Separations:**

- Library accessible to as many classrooms as possible
- Lab and Technology office accessible to library and as many classrooms as possible.
- Bathroom access.
- Locate at a distance from gym, music rooms, and cafeteria.

8. **Additional Spaces to Support Your Space:**

- **(Library)**
- Room needed for A/V Equipment Storage and storage for future electronic devices that will circulate. (Note that Lab 1 and Tech. office used to be the A/V storage and production area.).
- Periodical and A/V materials (DVDs, videos, software, etc.) storage room needed. Must be accessible to all staff for selection and circulation of A/V materials. All of these items, which number in the hundreds, are currently stored in the library office which also houses two staff members. There is no room for expansion in this office.
- Room for new book storage, book repair, and A/V repair needed. Must contain standard size sink with running water. This is currently done in the library office, which also houses materials listed above. Note that this room should be properly ventilated.
- Conference room (originally the library did include a conference room. This is now being used by the school psychologist).
- Multi-function area needed for presenters, book talks, bibliographic instruction, etc. An added benefit would be to allow the option to separate from the main library with a moveable closure.
- **(Technology Area)**
- New office is needed. The present office houses 3 people and also serves as a storage and computer servicing area for hundreds of MLTI laptops and PCs. This room also serves as the "conference room" for these three employees.
- Install a window, as currently there are no windows in this room and only 1 small window in the adjacent lab.

- Storage room needed for laptops, computer accessories, software, and print reference materials.
- Computer repair room outfitted with cupboards, shelves, counters, and sink is needed. Note that this should be properly ventilated.
- Large secure room is needed for servicing and staging laptops during the months of June, July, August and September.

#### **9. Ideas for Flexibility or Future Growth:**

- With library on first floor – consider direct outside access to an atrium and outdoor theatre (with retractable roof), the latter of which is also easily accessible to the arts areas and the cafeteria for multi-purpose use.
- Library multi-function area needed for presenters, tutors, book talks, bibliographic instruction, etc. Preferred movable walls.

#### **10. Special Equipment or Furnishings Required to Support Your Work:**

- **(Library)**
- New library tables and chairs. The current chairs/tables are old and many have been repaired several times.
- Lower shelving to increase visibility and allow access for those with special physical needs.
- New circulation desk and work area stations. The current setup is ergonomically incorrect due to using a combination of old furniture pieces. The circulation desk is not appropriate for students with special physical needs, as there is no “low section” for accessibility.
- Change computers to PC laptops and remove old rolling carts that currently support 11 old desktop computers. Supply ergonomically correct tables for computers and also chairs that are adjustable for height.
- New standard sized sink needed in the library office. New faucets needed as the current ones leak. New mirror. Soap dispenser needed.
- Replace all “chipped/broken ceiling tiles in the office. Replace ceiling stained (water) tiles in main library.
- Wireless video projector needed.
- Mounted interactive board with appropriate accessories/equipment needed for suggested multi-function area.
- Large mounted TV screen for viewing, announcements, etc, also wired for sound.
- See also # 8.
- **(Technology Area)**
- Outfit the technology office with pneumatic desks and chairs that are adjustable to height.
- Need proper mobile carts for transportation of computers, printers etc. throughout the building and outside of the building.
- Storage cupboards, shelves, counters, and sink are needed. (See also # 8)
- Outfit both labs with ergonomically correct desks and chairs. Chairs should have wheels and be adjustable for height.

#### **11. Special Storage Requirements:**

- See responses on numbers 8 and 10.

#### **12. Finishes:**

- Replace library carpeting with appropriate sound-proof flooring (not carpet). The current carpet is VERY old and beyond dirty. This is a high traffic area. Dust, food, etc. is a contributing factor to potential mold and destruction of books, software, and computers, etc. It is also a health hazard. Note that the dust, etc., accumulation is *not* a reflection of job performance by custodial staff.
- See # 10 – re: Ceiling tiles.
- Replace old curtains in library office with vertical blinds that are washable (not cloth).
- Replace library windows.
- Replace library blinds with appropriate coverings or tinted windows. The current ones do not work properly and they are needed for darkening for presentations, to block out the heat from the sun in summer, and to meet “crisis” drill/real situation requirements.

#### **13. Acoustic Requirements:**

- See Library flooring (#12)

#### **14. Mechanical Requirements:**

- Air conditioning needed in library for preservation of materials, prevention of computer electrical shortages due to static electricity, and improved air quality and circulation.
- Improve air exchange. Although the system has improved with changes implemented a few years ago, there are times when the air feels “dead” and severely lacking in oxygen. Current system is also very noisy, particularly in library office.
- Improve heating. This is a large room that is inadequately heated.
- Replace the exhaust vent in the small photocopy room. It is constantly full of dust and obviously not working properly. These fumes present potential health hazards.
- Fix venting: Currently we get exhaust from the Coffin cafeteria (choking “grease smell” or bus garage (not sure which, or both?). Although this is not a daily event, when it occurs, it is a serious problem. Is this a vent direction issue?
- Depending on the time of year, we get constant complaints that it is “too hot” or “too cold” or “too airless” in the library.

#### **15. Plumbing Requirements:**

- Standard sized sink with running water needed in library work area and the technology work area. (See also # 10)

#### **16. Electrical and Technology Requirements: (Library)**

- Increase the number of data jacks until school is completely wireless.
- Increase number of wall sockets and add floor sockets to accommodate mobile equipment and allow greater presentation flexibility.
- Install data jacks on far wall in library office for use until wireless is school-wide.
- Library needs both mobile and stationary phones. The room is too large for one stationary phone (not currently available), and batteries die quickly on mobiles.
- Situate library office light switch near the office entrance. Currently the switch is located near the far wall in the office. This is a definite safety hazard.
- Replace elevator with a larger unit to allow for proper transportation between floors of book carts, A/V equipment and computers, etc. in the case of the technology department. This need also applies to custodians who move items from one floor to another. With entrance to the library, the ability to lock the elevator on all floors is important. Currently, the elevator cannot be locked at the second floor level.
- If the elevator remains in the current location, install a security camera or some type of security mirror as this area cannot be seen by individuals in the library.

**(Technology Department-School-wide Needs)**

- Implement school-wide wireless access.
- New and Larger Network Closet
- Install power high on walls where ceiling mounted projectors and Interactive Whiteboards are/may be used/installed.
- Install network access drops on a minimum of two walls in every room to allow some flexibility in room arrangement. Larger rooms (library, etc. would require more).
- Install security cameras in both labs.

**17. Lighting Requirements:**

- Install appropriate tinted windows or blackout shades in library for teaching/presentation purposes.
- Update lighting in the library (daylight lighting?) Perhaps consider recessed lighting with the ability to dim or brighten according to needs.

**18. Security Requirements:**

**(Library)**

- Install a new elevator that can be locked at all floor levels. (See also # 16 above).
- Install additional security mirrors in the library. With high stacks, it is impossible to see all areas.

**(Technology Department)**

- Install security mirrors in lab 1 so that office staff can see who is entering or in the lab.

**19. Accessibility:**

- Larger elevator.
- Reduce stacks height in library.

- Widen areas between the stacks in the library. Currently there is no room for expansion in this direction.
- Replace the library circulation desk. It is not appropriate for students with special physical needs as there is no “low section” for accessibility (see also # 10).
- Install chair lift on stair ways for those unable to walk as the elevator cannot be used in the event of fire or crisis situations. Lift can also be used for transportation of heavy items.
- Widen school hallways.

## **20. Site Development and Outdoor Activity Spaces:**

- Use excess fill to construct a hill on the cross country course.
- Construct bridges on cross country course.
- Build an outside sitting area (quad) and athletic events seating area.
- Build an outdoor theatre and atrium (see also # 9) – direct outside access to library, arts areas, and cafeteria.
- Build outdoor track
- Build outdoor multi purpose area (basketball, etc.)
- Recreate the long jump and triple jump areas.
- Improve the landscaping.

## **21. Other:**

- Install speed bumps in vehicle entrance areas.
- Install stop signs at exit points.
- Fix drainage in staff parking areas.
- Increase the number of parking spots for staff.
- Designate a number of parking spots located near to the school for circuit staff who change locations during the day and also sometimes must transport heavy equipment, computers, etc.
- Enclose current entrance area or redesign...currently a wind tunnel. Double door the entrance to the school. There is tremendous heat loss at this entry point.
- Change “flat roofing”...lends itself to southern climates...leaks...costly to remove snow...consider metal roofing.
- Join Coffin to BJHS with enclosed overhead walkway.
- Change the school colors!
- Improve the design and move the front entrance way to the quad and relocate admin offices, teachers’ workroom, etc. to the sides while maintaining visibility to offices via large windows. Provide throughway to library for centralization if moved to ground floor.
- Should the recommendation be to build a new school, recommend that staff be given an opportunity to submit building design suggestions.
- Redesign and update student and staff bathrooms!
- Design a proper workroom for staff that is outfitted with relevant equipment and supplies. Relocate away from the administration offices.
- Redesign and enlarge staff room.

## HARRIMAN

## BRUNSWICK SCHOOLS FACILITIES MASTER PLAN STUDY

Project No. 11533 • October 20, 2011

## STAFF QUESTIONNAIRE

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Your Name & Current Position: BUNNY ANDREWS / School  
NANCY GUEST / Counselors
2. Current Room Name and/or Number: TERRI DERAND, secre-  
Rm. 111 Counseling office tary
3. Average Number of Students per Class: office
4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.) The are the Counseling Office for  
the entire school.
5. Type of work performed: (Describe the work you do for your particular educational program.) (see  
individual & group counseling attached  
often need space for 8-10 people (over)  
intake & register new students
6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?) This school needs a common meet-  
ing space for staff.  
2) A more welcoming entry/lobby
7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)  
1) The counseling office should be separate  
from the administrative offices.  
2) It is essential that we have a conference  
room near our office
8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)  
- conference room  
- waiting area for families  
- small private bathroom
9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)  
NA

10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)

- decent comfortable furniture  
- file cabinets (fireproof), printer, fax machine,  
- additional conference space copier

11. Special Storage Requirements: (Please describe your needs for shelving, casework, closets, etc.?)

fireproof file cabinets, bookshelves  
closets, counterspace, locked storage  
space,

12. Finishes: (What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)

carpeting, walls, lighting, curtains  
cabinets, shades

13. Acoustic Requirements: (Do you require any special acoustic isolation or sound treatment for your room?)

- Yes! Our work is confidential in nature  
and our rooms need to be sound-  
proof.

14. Mechanical Requirements: (In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)

15. Plumbing Requirements: (Do you have any special requirements for sinks, water fountains, floor drains, etc.?)

- small private bathroom and rest.  
- kitchenette side sink

16. Electrical and Technology Requirements: (In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)

- fax machine

17. Lighting Requirements: (In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)

Our rooms must be warm and inviting  
to support our counseling mission.

18. Security Requirements: (What suggestions do you have to improve the security of the building and the site?)

19. Accessibility: (What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)

The building needs an elevator that  
accesses all hallways.

20. Site Development and Outdoor Activity Spaces: (What could be improved in the overall site and outdoor activity spaces?)

The need a courtyard with  
benches and gathering spots; also an  
indoor and outdoor campfire heater.

21. Other Spaces: (Are there any other program spaces that should be added?)

- swimming pool



# 5. (cont'd.)

- consultation with outside agencies on sensitive issues

## HARRIMAN

BRUNSWICK SCHOOLS FACILITIES MASTER PLAN STUDY  
Project No. 11533 • October 20, 2011

## STAFF QUESTIONNAIRE

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Your Name & Current Position: Terri Delano, Secretary
2. Current Room Name and/or Number: 111 Counseling Office
3. Average Number of Students per Class: /
4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.)  
/
5. Type of work performed: (Describe the work you do for your particular educational program.)  
Secretarial, - Computer, Filing, Phone calls, Student Records, Student registration
6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)
7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)  
A larger work station would be very helpful. for and a more ergonomically designed station
8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)  
Waiting area for families instead of some chairs in the middle of the room. Also storage space w/ doors
9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)  
for supplies  
a small bath room
10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.)  
Counter space  
File Cabinets - fire proof for all student records. We currently have 3 full size and 2 3/4 size. Fax machine, Copier & printer. Better insulation in walls for privacy. Furniture for waiting area.

11. Special Storage Requirements: (Please describe your needs for shelving, casework, closets, etc.?)

File proof file cabinets, Closet, Bookshelf  
Counter space, Locked storage space

12. Finishes: (What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)

Carpet, walls, Curtains, cabinets, lighting

13. Acoustic Requirements: (Do you require any special acoustic isolation or sound treatment for your room?)

Yes, Insulated walls for Confidential purposes.

14. Mechanical Requirements: (In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)

15. Plumbing Requirements: (Do you have any special requirements for sinks, water fountains, floor drains, etc.?)

~~Small~~ Small private bathroom

16. Electrical and Technology Requirements: (In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)

Fax machine, Computers hookups

17. Lighting Requirements: (In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)

18. Security Requirements: (What suggestions do you have to improve the security of the building and the site?)

19. Accessibility: (What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)

20. Site Development and Outdoor Activity Spaces: (What could be improved in the overall site and outdoor activity spaces?)

21. Other Spaces: (Are there any other program spaces that should be added?)

Auburn Business Park  
46 Harriman Drive  
Auburn, Maine 04210

207.784.5100 tel  
207.782.3017 fax  
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## MEETING NOTES

Building communities  
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## To

Paul Perzanoski, Facilities Committee, Walter Wallace, Lisa Cushman, JPL, RDM, JWT, BKB,  
FILE

## From

Jeff Larimer

## Date

February 15, 2012

## Project

Brunswick School Department  
Facilities Master Plan Study  
Brunswick, ME  
Project No. 11533

## Subject

STAFF MEETINGS OF FEBRUARY 10, 2012

## Present

Jeff Larimer                      Harriman  
See below for attendees at each meeting

1. Department Heads – Jill Rybarczyk (Special Education), Suzi Ring (Science), Russ Pierson Social Studies), Susanna Sharpe (Math/Reading Support), Peg Acheson (Language Arts), Mary Hudson (Special Education), Walter Wallace (Principal)
  - a. Science
    - i. Would like to see a central team meeting space.
    - ii. There is only one prep room that is shared by all science classes. There are no individual prep rooms. To access the prep room requires going through another classroom.
    - iii. A prep room used by 6<sup>th</sup> grade science is behind the language arts classroom.
    - iv. All rooms should have interactive white boards (IWB).
    - v. Current sinks are not optimum. They are old, in bad locations, many do not function and they none have hot water. Sinks in 6<sup>th</sup> grade rooms do not have any water.
    - vi. There are no ventilation hoods in the 8<sup>th</sup> grade rooms.
    - vii. Phones are poorly located.
    - viii. Seating arrangements are limited.
    - ix. Need new window treatments.
    - x. Classrooms need more outlets and more shelving.
    - xi. Need storage space for laptops.
    - xii. Toilets should be near classrooms.
    - xiii. Would like to be able to access the building after hours.

## HARRIMAN

- xiv. Add a greenhouse attached to the health classroom.
- b. Social Studies
  - i. Evaluate classroom sizes to maximize space and seating arrangements.
  - ii. Provide indoor meeting space for departments and teams.
  - iii. Would refer to have student desks and chairs that are detached. Easier to arrange.
  - iv. Provide a grassy area where the portable is located.
  - v. Whiteboards in all classrooms throughout the building.
  - vi. Provide TV access through technology.
  - vii. Tack boards for display purposes.
  - viii. Like having good operable walls between classrooms. Social Studies and Language Arts work together. Problem with operable walls is the loss of wall space for pin-ups.
  - ix. Social Studies and Language Arts classrooms should be grouped together for interaction.
  - x. Provide tutorial space near each team area.
- c. Language Arts
  - i. Classroom desks should be updated to tables and chairs.
  - ii. Heating system needs to be fixed. Some rooms are cold.
  - iii. Need new window treatments.
  - iv. Provide a team gathering space, possibly with a stage to allow for student performances. The existing stage in the cafeteria cannot be used because of noise from the gym.
  - v. Replace lights with ones that can be dimmed.
  - vi. Toilet rooms need to be upgrades. Many of the faucets do not work.
  - vii. Create Learning Labs – a resource room where students can get help on a particular subject area.
  - viii. Book storage closets for teams.
  - ix. Teacher's room needs to be updated.
  - x. Provide “cozy” spots throughout the building for students.
- d. Special Education
  - i. Need to look at the upcoming student population through Kindergarten to see what the needs are for special education students. More challenging.
  - ii. Currently have about 88 special education students. Population remains relatively stable but the severity of the disabilities continues to increase.
  - iii. No interior spaces. Daylighting is important to severe students.
  - iv. Provide equal technology in all classrooms.
  - v. Kitchen and laundry areas.
  - vi. Need a safe classroom for emotional students.
  - vii. Provide a testing space. Can be used up to 3 hours.
  - viii. Need tutorial space and conference rooms.
- 2. Health & Consumer Sciences – Maria Newcomb and Priscilla Vaughn
  - a. Current program is what use to be called Home Economics. What is the future of the current program?
  - b. Their location is divided into several spaces – 7/8 Health Classroom, Consumer Science Classroom, home economics project area and kitchen area.
    - i. Health classroom is separate from the rest of the space by an operable wall.
    - ii. Consumer science classroom is open to home economics space.
    - iii. Kitchens are in a separate room.
    - iv. There is a small office space.
  - c. Classroom
    - i. Approximately 22 students plus aides – up to 26 people.

- ii. Need better student desks.
  - iii. Needs built-in shelving and space for portable carts.
  - iv. Replace existing chalkboards with new whiteboards.
  - v. Better tack boards other than ceiling tile stuck to the wall.
  - vi. Current space is windowless.
  - vii. Review location of phone jack – opposite from where desk is.
- d. Home Ec Space
  - i. Classroom and project space are open to each other.
  - ii. Have lots of windows with good views.
  - iii. There is only one sink in the project room that is original and is not used. Counter used as desk.
  - iv. There is a projection screen but would prefer an IWB.
  - v. Kitchens are original and are not ADA compliant.
  - vi. Fire extinguishing system has been added in the kitchens.
- 3. Foreign Language – Mary Lord and Tatiana Lera
  - a. Mary teaches French and Spanish for grades 6, 7 and 8. She is located across from admin in the former art room.
  - b. Tatiana teaches French and Spanish for grade 6 only and Spanish for grades 7 and 8. She is located in a portable outside the art wing.
  - c. Would like to see both Foreign Language classrooms together. Should be centrally located near all academic teams.
  - d. Two teachers are adequate now based on current student population. Could add a third teacher if the population increases to previous levels.
  - e. Classes average 20 students. Largest class has been 27.
  - f. Need a common storage room adjacent to classrooms.
  - g. Provide both open and closed storage within each room.
  - h. Cooking is a part of the program.
  - i. Audio and video in each room with IWB and projector.
  - j. Additional outlets needed.
  - k. Mary's classroom (former art room) is windowless except for some clerestory windows. Room is very dark when lights are turned off. Roof also leaks.
  - l. Do not use the chalkboards. Would like magnetic whiteboards and tackboards.
- 4. Band/Music/Chorus – Heidi Anderson and Shari Tarleton
  - a. Heidi teaches band and classroom music and is located in the original Band room. Shari teaches chorus and classroom music and is located in a former Industrial Arts room. This latter space is shared with the art program.
  - b. Would like to see both programs combined next to each other but separated from other areas.
  - c. There are about 200 students each in band and chorus – combined all grade levels.
  - d. Sixth grade band and chorus each have about 80 students.
  - e. Programs should be located near a performance space. Current stage off of gym is too small to be used as an appropriate performance space. Needs to get out of the gym.
  - f. They feel the area could support another auditorium in addition to the one at the high school.
  - g. Music rooms need new and updated technology such as sound systems, recording systems and IWB's.
  - h. Current band room is at a lower floor elevation than the adjoin spaces. There is a lift available for handicap access but it takes up a lot of floor space.
  - i. Band room has many structural issues. This section of the building has had settling issues since it was built. The roof leaks and water frequently seeps in through the walls soaking the carpet.

## H A R R I M A N

- j. The acoustics in the current band room are ok but the acoustics in the chorus room are bad since the program is located in a former IA room with an open structure and no sound absorbing materials.
  - k. Floor in the band room should be flat. Would like to have portable risers in the chorus room.
  - l. Heating systems are loud.
  - m. Adequate storage is lacking for both programs.
5. Administrators – Walter Wallace (Principal) and Lisa Cushman (Assistant Principal)
- a. Team approach. Teams are important.
  - b. Currently have 6 teams – 2 per grade. Use to have 3 teams per grade when student population was larger.
  - c. Have about 543 students now. Was about 750-800 students at high point.
  - d. Special services are mostly in chopped up spaces. Need better spaces for special service programs.
  - e. Arrangement of admin offices is poor. Needs to be reconfigured.
  - f. Teacher lounges should be on each floor.
  - g. Add more student toilets.
  - h. Kitchen needs to full-service. Currently only a serving kitchen. Food is prepared at Coffin and delivered to the junior high school.
  - i. Aesthetics of the cafeteria is poor.
  - j. All rooms should have natural light. Some rooms are interior spaces with no windows.
  - k. Improved physical fitness space. Located in a former storage room.
  - l. Acoustics are poor in the gym. Stage is located off the gym and makes for a poor performance space.
  - m. School needs a master clock system. Existing clocks are all battery operated are inconsistent throughout the school.
  - n. More display space throughout the school for students to display their work.
  - o. Wi-Fi system is spotty. There are locations in the building with poor reception.
  - p. Ventilation systems need upgrading. Inconsistent heating and ventilation.
  - q. Large pipes that run exposed throughout the building are unattractive.
  - r. Closers currently being used on classroom doors are not permitted per local officials. Should have magnetic hold-opens tied into the fire alarm system. (Note: if building was fully sprinklered, this would not be an issue.)
  - s. Need new student furniture – separate desks and chairs.
  - t. Better technology throughout the building. New wiring and more versatile systems.
  - u. Replace all carpeting – either new carpeting or new flooring. (May be asbestos tile under the carpet.)
  - v. Eliminate all portables – Alternative Ed, G&T and ESL programs are in the portables. Need space within the building for these programs.
  - w. Incorporate green design features into a renovated building, wherever possible.
  - x. Improved security at the front entrance. Anyone could walk-in undetected and access the entire building.
  - y. Cafeteria lacks security sensors.
  - z. Need space for Speech and Testing.
  - aa. Provide doors that operate correctly.
6. Athletic Director – Justin Keleher
- a. Would like to see a track and to add field events.
  - b. Currently have good field hockey and soccer fields.
  - c. Softball, baseball and lacrosse are held off-site. Softball and baseball are held at Edwards Fields adjacent to JA. Lacrosse is held at Crimmins Fields.
  - d. There is no football program.
  - e. Overall, town lacks baseball fields.

## H A R R I M A N

- f. There are some cross country trails in the woods behind the school that should be better maintained.
  - g. The existing gym is in pretty good shape. Bleachers are ok.
  - h. Fitness room needs to be improved. In an old storage room with a loft space.
  - i. Small gym is used for station work and by teams for conditioning during inclement weather.
  - j. Both locker rooms and toilet facilities need updating. Toilets are not private.
  - k. Need locked closet for students to put their backpacks and laptops,
  - l. AD's office is located in the PE storage room.
  - m. Would like to add some bleachers to both fields.
  - n. Lighting around the school at night is very poor. There is no lighting in the parking area. Lighting at the back of the gym should be improved.
  - o. Need outdoor storage for athletic equipment. Have a small shed now.
7. Art – Cory Bucknam and Barbara Berry-Palm
- a. All students take art one semester per year.
    - i. 6<sup>th</sup> grade is 2 days out of 4.
    - ii. 7<sup>th</sup> and 8<sup>th</sup> grades are 3 days out of 4.
  - b. Use to have 3 art teachers. 3<sup>rd</sup> teacher handled the yearbook. Now handled by Barnett (Special Ed teacher).
  - c. Art programs are currently in the former Industrial Arts space. The two art classes share one large open space. Chorus and ESL also share this space.
  - d. Both art classes are studio based in all media.
  - e. Should have two separate art classrooms that are equally equipped.
  - f. Each room should have a presentation/critique space with IWB's.
  - g. Multiple sinks per room.
  - h. Kiln is out in the open now. Should be enclosed. Need storage for pottery supplies. Would like to have potter's wheels but there is no room.
  - i. Display walls throughout the building. Display cases for student work. More sculpture space.
  - j. Possibly add a clean room for a computer (tablets?) based graphic/digital arts program.
  - k. Barbara provided some information on art classroom design.
8. PE – Dan Boomhour and Joan Iuzzolino
- a. PE program is fitness based curriculum. Stations are set up and students rotate among the different stations.
  - b. Fitness room needs to be larger. Using former storage room.
  - c. Would like to add a 40' climbing wall.
  - d. Need storage for PE equipment.
  - e. Both PE offices should have their own toilet/shower facilities.
  - f. Need outside storage for snowshoes and cross country skis.
  - g. Basketball court size about 42' x 74' which is less than a regulation high school court of 50' x 84'. Court size is typical for an elementary school.

*If written notice is not received within two weeks of receipt, the above meeting notes represent an accurate summary of the meeting and its conclusions.*

jplar



To: Walter Wallace  
From: Peg Acheson  
Re: Input for Facilities Study from L.A. Department  
Date: 2/8/12

- Replace student desks with tables (trapezoidal) in room 112
- Replace desk-chair units with chairs and desks that are separate in 204
- Also in 204: fix heating, as it's usually cold
- In all L.A. rooms: blinds that are more attractive, more outlets and phone jacks, windows that are more air-tight
- Blinds or shades that fully cover windows--rooms 112, 211, 315, 204, 311
- Build a small stage and gathering area to use for guest speakers, Readers' Theatre plays, spelling bee. Audience space carpeted and to accommodate roughly 80-100 audience members; good acoustics. A good place for this would be the Media Center.
- Replace glaring fluorescent lighting with lights that are more inviting and "softer" for students
- Fix the bathrooms so we send the message to students that we care about them. (Currently, water trickles out of the faucets, and the faucet handles turn every which way.)
- Build 1-2 inviting and comfortable "Learning Labs" for our students, perhaps one focusing on reading and writing skills (in any subject) and one more suitable for math and science.
- Team Boards for all teachers in L.A. department
- Book closet for each grade
- Additional faculty bathroom on second floor and first floor
- Teacher lunchroom on first floor (with refrigerator, microwave, etc.)
- Cozy places throughout the school for kids to sit and read

Facilities Questionnaire--SS Dept. Feedback 2.7.12

Grade 6

Wendy & Janelle: (W. Arzate' & Janelle El Ghazouani)  
general ideas:

- An indoor meeting space large enough for the whole grade level dept. or team to meet and work.
- Detached desks to promote multiple grouping options in the classroom
- Centrally located copy rooms on each floor.
- Outdoor meeting space/activity area in the area where the mobile unit used to be. Grass not dirt!!!
- White boards (out with chalk) and interactive white boards in each room which are the same and training for all.
- Plenty of cork space to hang student work, posters, etc...
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (ss and LA, next to each other on teams – for cross curricular opportunities)
- Dimmable lights
- Black-out window treatments for windows
- Shelves and closets within the classroom
- I like carpeting, love to have the ability to have kids working on the floor (~~W. Arzate'~~ Arzate')
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts.
- Centrally located restrooms on each floor, not far from team rooms.
- DVD player or VCR combo per team.
- White boards and interactive white boards in each room which are the same and **training for all.** (Janelle)
- Plenty of cork space to hang student work, posters, etc...
- More grounded power strips/outlets; more phone and internet jacks.
- All team classrooms located near each other
- More Shelves within the classroom
- Replace the old, stained, bright red carpet from my room PLEASE ☺ (El Ghazouani) **300 wing**
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts (out of teacher's classroom when not being used).

For staff

Teacher break room (lunch room) on the first floor with updated (clean) equipment/furniture. Access to multiple microwaves

Grade 7

Matt **Cast**

- white board.

S.S. can't

- electrical outlets in the floor by my desk and in the center of the room to be able to use a laptop and/or projector.

## Grade 8

Blake (Sullivan)

I am going to piggy back on Wendy's list:

- TV on a wall mount in the corner of my room to watch important news stories, etc...
- DVD/VCR mounted somewhere???
- Detached desks to promote multiple grouping options in the classroom
- Interactive white boards in each room which are the same and training for all.
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (ss and LA, next to each other on teams – for cross curricular opportunities)
- Dimmable lights (Will help my migraines and those of my students.)
- Darkening shades for windows with new fixtures.
- Shelves and closets within the classroom
- Please pull up my carpeting!!!
- More teacher bathrooms on the 2nd floor
- 

Pierson (Russo)

1. **Facilities Questionnaire:** By Thursday, please email me your thoughts on building modifications to accommodate social studies instruction.. I will be sharing ideas for building modifications during the department head meeting on Friday morning, This is a wish list, so think big. This could include things like:

• *Classroom dimensions sufficient for a variety of seating configurations*

- Interactive white boards in every classroom
- Book shelves, caseworks and closets (describe your specific needs)
- Desks and chairs that easily convert room to whole group, pairs, or small group instruction, debates, presentations, simulations, etc.
- Small meeting space
- Proximity to library
- Proximity to printers and copiers
- Proximity to common area
- Ample bulletin board space to display student work, exemplars, posters, etc.
- Multiple phone jacks !!!
- Electrical outlets that are ample and conveniently placed
- Moveable walls to allow for both grade level SS class and inter-team SS/LA class co-teaching opportunities (i.e. contiguous LA/SS/SS/LA suites)
- Functional window shades that darken room for projections
- Storage closet equal in dimension and shelving to present one in 100 wing
- *Unified clock system*
- *Lots of cork board*
- *Counter space*

S.S. Dept

~~Storage closet~~

Same or similar in capacity to current

60 wing closet

- 1-2) Math Department Response for Harriman Facilities Master Plan Study
- 3) Average Number of Students per Class – 20-25
- 4) Program – We are teaching Mathematics in the classroom and in an RTI Setting. Students work individually, in pairs and in groups, as well a full classroom setting. We use interactive whiteboards (when available), overheads, and chalkboards.
- 5) Type of work performed – Teaching with a variety of methods.
- 6) Classrooms organized so team members can be near each other and companion math teachers on a grade level can be next to each other. RTI personnel located within the hallway of the students they serve.
- 7) Permanent wall in room 104.
- 8) Small tutoring rooms adjacent to classrooms. Separate bathroom stalls for students (one toilet and sink) to avoid having students congregate in the bathrooms (like Mount Ararat Middle School). Ventilation in all bathrooms. Many more faculty bathrooms conveniently located so multiple teachers can use them in the 3 minutes between periods.
- 9) Each RTI and ATD teacher has his/her own classroom. Enough classrooms for future growth so teachers do not need to share classrooms or float.
- 10) Storage closets in each room with shelves to store math manipulatives and textbooks. Adult coat closets in each room. Built in laptop storage shelves for laptops and cases with electrical outlets. Tables or desks and detached chairs for all classrooms. Ceiling mounted projector and interactive whiteboard for all classrooms. More wall space covered with chalkboards or whiteboards for students to use to do problems. A raised flat podium style piece of furniture to support a laptop or other resources when teaching (similar to an overhead cart). Large sized furniture for 8<sup>th</sup> graders so they fit in it. Bouncy chairs to accommodate students' need for movement (like at Cony High School).
- 11) See above. We need a central area for holding math department books, files and supplies.
- 12) Updated bathrooms (Downstairs faculty bathroom really needs it!) No more carpet. Health concerns seem to indicate carpet is not a good material but several teachers are OK with keeping it. Better colors on walls.
- 13) Concern over acoustics if we remove carpet, we will need to accommodate for that.
- 14) Ability to be able to adjust your own room temperature. Air conditioning for those hot summer days or ceiling fans.

- 15) Sinks and water fountains in each classroom (like HBS).
- 16) Bank of outlets on the wall to eliminate power strips. Outlets on all walls of a classroom (for example, 302-308 wing only has outlets on one wall). Ability to locate the phone in several locations in the classroom. Microphone and speakers for presentations.
- 17) Dimmer switches on lights. Blackout shades for windows.
- 18) Ability for all faculty members to enter on nights and weekends (like all other schools in the district already have). All doors that lock (some 300 wing doors have no locks.) Better locks on the doors so it is not so hard to determine whether you have locked it.
- 19) There are others more qualified to address this need.
- 20) The area outside room 306 could be turned into a courtyard for an outdoor learning space.
- 21) Multi-purpose room with a high ceiling, flat tile or linoleum floor (not stadium seating), good acoustics, closet to house folding chairs and tables, and with a capacity of 100 (sized to hold an entire team). An auditorium to hold 200-800 people for assemblies, concerts, plays, and other presentations.

Suzi,

For my classroom, I think it's important to keep the cabinets, counters, tile floor, and sink at the front of the room. It would be a huge help to get rid of the four former sink relics - they impede traffic flow, limit seating arrangement options, and are a distraction because the kids play with the remaining fixtures and lift the tops off to reveal the old plumbing and its odor.

Changes I'd like but aren't necessary: interactive whiteboard, additional sinks (against a wall), ventilation hood, phone jack near my desk, better chairs for students, and updated window treatments.

Thanks,  
Kyra

- Interactive white boards in each room which are the same and training for all.
- More grounded power strips/outlets; more phone and internet jacks.
- Moveable walls between classrooms (ss and LA, next to each other on teams -- for cross curricular opportunities)
- Dimmable lights (Will help my migraines and those of my students.)
- Darkening shades for windows with new fixtures.
- Shelves and closets within the classroom
- At least one printer per team, centrally located for those rooms
- Storage area for laptop carts.
- Centrally located restrooms on each floor, not far from team rooms.

Thank you! :)

...the events of life are mainly small events--they only seem large when we are close to them. By and by they settle down and we see that one doesn't show above another. They are all about one general low altitude, and inconsequential.- Mark Twain's Autobiography

Ms. Suzi Ring  
Science Teacher/Science Department Chair  
Brunswick Jr. High School  
65 Columbia Ave Brunswick, Maine 04011  
(207) 319-1930  
Email: [sring@brunswick.k12.me.us](mailto:sring@brunswick.k12.me.us)  
Homework website: <http://teacherweb.com/ME/Brunswick/SuziRing/>

-----Original Message-----

From: Diane Bowen

cc: Tue 2/7/2012 1:57 PM

HARRIMAN

BRUNSWICK SCHOOLS FACILITIES MASTER PLAN STUDY  
Project No. 11533 • October 20, 2011

## STAFF QUESTIONNAIRE

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Your Name & Current Position:

Sue Lamdin, Science Teacher, Grade 7

2. Current Room Name and/or Number:

Room 108

3. Average Number of Students per Class:

21

4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.)

General Science

5. Type of work performed: (Describe the work you do for your particular educational program.)

Class teaching and science lab work.

6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)

Our "wings" created many edges - no "core", central space

7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)

Teams of teachers should be on the same hallway

8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)

We must enter the science prep/storage room through either ~~the~~ a SPED office or another teacher's classroom; not ultimate!

9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)

- An auditorium like Mt. Ararat Middle School's Orion Performing Arts center.

- A greenhouse built off of the Health Room

10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)

- Hot water needed in Room 108 !!

- Venetian blinds that work!



11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.?)*
12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*
13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*
14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*  
The fan noise issues have thankfully been addressed.
15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)*  
The water flow in one of the five lab sinks needs adjustment
16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)*  
I need a phone that rings so that it can be heard.
17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*
18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*
19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*  
We can't access the building after hours or on weekends.
20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*  
We are starting a school garden in the center front courtyard.
21. Other Spaces: *(Are there any other program spaces that should be added?)*  
A Greenhouse would be an amazing addition

Facilities Study:  
 Special Education services  
 Brunswick Junior High School:

Special education services Current population is 88 students,  
 The average for the junior high school ranges from 85-115

Special education teachers deliver direct instruction in their classrooms for 6 periods a day and the class size can range from 4 to 21. Many students spend much of their day in one classroom.

**Special equipment or furnishings:**

Chairs and tables that are suited for regular class work that fit the middle school student and seating that address sensory needs of students who need to participate for 50 minutes at a time or are in the classroom the entire day.

Desks and chairs that are the right height for laptop use.

Teacher chairs

Tables of different configurations to accommodate different sized groups.

Classroom storage for student belongings (many of our students cannot access lockers)

Noise sensitivity and distractibility for some students would mean that the classrooms should not be near noisy environments. (i.e.: band/music, gym/ cafeteria). On the flip side the students in special education can also be the source of the noise and we need to be sensitive to classroom placement.

**Special Storage Requirements:** Regular Classrooms

Shelving for laptop and adaptive devices storage

A locking closet for student equipment

**Functional life skills: FLS**

Storage in a laundry facility, locking, for detergents

Shelves for laundry

Cabinets for the kitchen that can be locked

Modify the existing storage area to better store large awkward materials.

Need better kitchen storage for food supplies. Currently storage is makeshift shelving in the area that likely would be taken by fixing up the bathroom/laundry facilities.

**Acoustic requirements:**

Is the school designed to have an auditory trainer loop for each wing of the school (for hearing impaired students)?

Soundproof walls (environmentally/allergy free)

Carpeting on floors (environmentally/allergy free)

**Mechanical requirements:**

Functional Life skills

Ventilation for dryer

Ventilation hood for stove  
Built in dish washer hookup

**Plumbing Requirements:**

FLS program  
Hookup for washer and dryer  
Bathroom designed to have a shower, an adult size changing table and a toilet that is handicapped accessible that allows space for adults to assist with transfers.  
A second bathroom for ambulatory students with a toilet and a sink.  
Kitchen Facilities  
\*The kitchen does not currently meet code. Appliances are outdated, not safe for students with special needs.

**Electrical and Technology Requirements:**

Many grounded outlets for the adaptive equipment and computer use.  
Multiple phone jacks in classrooms  
Interactive boards for the special education classrooms (currently there are 8 classrooms)  
A designated video projector in classrooms if smart boards are not in the budget

**Lighting requirements:**

Lighting that is appropriate for students with seasonal affect disorder and seizures  
Natural daylight for classrooms as much as the design allows.  
Allow for softer lighting to create calming effect for students.

**Security requirements:**

Wheel chair accessible sites in each wing in case of emergency lock down

**Accessibility:**

Wheel chair access to at least one bathroom per wing, with a stall that allows adult support for lifting assist.

**Site Development and outdoor Activity Space:**

Shaded areas for students in wheel chairs or those that have low tolerance to extended time in sunlight to participate in activities.

**Other Spaces:**

A conference room for special education meetings  
A space for testing for evaluations where the student and staff will feel comfortable for 3-4 hours at time  
An area where students can go to take test or quizzes or get small group or individual instruction.  
A speech and language room that is not a pass through to supply areas with ventilation and heating appropriate to space and some soundproofing.

**\*The Emotional Disability Program (connections)**

A classroom space that is open but has individual workspaces for up to 15 students supported by three staff.

There needs to be an area where student can go to decompress and or address emotional needs. This area should have some protective insulation. (There are specific state requirements and guidelines for a "time out" space) We are hoping to provide a space where students can recover and avoid injury to themselves and others.

**Additional**

Room Temperature

\*Summer school services are held here each July/August. The main Functional life skills classroom gets to be over 90 degrees. There is no ventilation/windows to let the heat out. The windows get full sunlight all morning.

The other classrooms are in the 80-degree range. In the next few years we will have some students entering BJHS that are unable to properly regulate their body temperature and/or have difficulty with extreme hot or cold.

\*OT/PT area

With the significant physical needs of the upcoming students part of the FLS room will need to be dedicated to OT/PT needs. We currently have a swing in one room that is a multi purpose room with no storage for P.T.O.T. equipment.

**Functional life skills area:**

\*One of the smaller glassed in areas needs to be redone somehow. When it is hot the smell of old urine permeates the room.

\*Carpeting in 2 areas needs to be replaced. Carpeted areas must remain due to needs of the students. Indoor/Outdoor ENVIRONMENTALLY SAFE carpeting preferred for its durability.

## STAFF QUESTIONNAIRE

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Your Name & Current Position:

Maria Newcomb Health & CS

2. Current Room Name and/or Number:

318

3. Average Number of Students per Class:

22

4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.)

5. Type of work performed: (Describe the work you do for your particular educational program.)

6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)

- more room in the classroom for movement and group activities
- updated kitchen area including a new stove

7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)

8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)

- better student desks
- electrical outlets
- built in shelves for display

• remove chalkboard, replace bulletin boards

9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)

10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)

Shari Tarleton

## Facilities – Chorus/General Music/Beginning Band

1. A dedicated space to chorus for class/rehearsal that is large enough to house 200 students with risers that can be taken up/put down easily, a piano, a Smart Board, wired in audio/visual/recording equipment with DVD and i-pod capabilities.
2. A dedicated space that is sound proof with good acoustics.
3. A storage space (cubbies) where students can place daily personal belongings while they are in class.
4. Storage Space – music, curriculum items, chairs, tables
5. Dedicated classroom space for general music that can be adapted to house a computer lab for composition and a piano lab for keyboard instruction.
6. Proximity to the other music program (Band/General Music)
7. Access – We do a lot of festivals/concerts at night and on the weekend. Having access to our area on off-hours would be beneficial.
8. A smaller area for small group tutorials, smaller ensembles or personal practice.
9. Dedicated office space for the teacher.
10. Bathroom area

## Performance area –

- 1 A stage that is not part of the gym where it can be accessed by theater/music students at our convenience.
- 2 A stage that has stair access.
- 3 A stage that has appropriate lighting and wing space.
- 4 Storage space for theater props that is not shared with the custodial staff.
- 5 Theater seating with acoustical properties and sound support.
- 6 A changing area.

Current reality:

I need a ceiling

- floor
- light switches
- sound proofing
- get rid of the constant heating unit sound
- get rid of the hot water heater in my room
- walls

#### Facility Needs: BJH Instrumental Music

Band room (dedicated--not shared) for 200 piece band with interactive white boards, wired for recording.

4 Practice rooms

1 large ensemble room (20-25 piece ensemble/ band section)

"Repair room" with workbench, large basin sink, storage for school owned instruments not currently in use.

Appropriate instrument storage based on 200 kids

Music storage

Office Space

#### Facility Needs: BJH General Music

2 general music classrooms with interactive white boards, sound, and keyboard/ computer set up.

#### Facility Needs: BJH General

Auditorium

Informal "meeting"/performance space for large groups.

#### Current Issues:

Walls in band room

Carpet in band room

"Water issues" in band room

Storage issues in band room

Technology not current.

General Music space does not meet curricular needs.

# Admin. (Walter + Lisa)

- ✓ Conference Room
- ✓ Behavior Resource/Quiet Space
- ✓ Workroom not attached to admin
- ✓ Teacher lounge both floors

Front office before classrooms

No portables

Working kitchen/comfortable café

\* Team areas-common space

No rooms without natural light access

Physical Fitness Room with adequate space/ventilation

Stage area with improved acoustics

Integrated clock system

Working drainage outside

Display cabinets throughout the building

Adequate Wi-fi

Leaks (above, below or sideways)

Ventilation heating/cooling that is working properly

Bathrooms for students in team areas

Assembly area for whole school

Ventilation piping not visible

Doors opening with flow of traffic

Magnetic things to hold doors (fire system)



Classrooms the correct size for middle age students

Chairs and desks for middle level learners

Technology that is versatile for improvements.

Student waiting/holding space away from work room

New carpeting, tile, etc

Green

Alternative ed spacec

GT space

ESL space

**Subject: RE: Question****Date:** Friday, February 10, 2012 8:43 AM**From:** Daniel Dearing <DDearing@brunswick.k12.me.us>**To:** Justin Keleher <jkeleher@brunswick.k12.me.us>**Conversation:** Question

Hey,

Here are the things that would help:

Long Jump, triple jump landing area and pole vaulting strip.

We had a long and triple jump area that was covered by the mobile unit.

It needs to have 2 tar paths that leads to the sand.

The kids at this point pole vault on grass which is very slick. A tar path and vaulting box would be helpful.

Our throwing circle for shot put was covered by the mobile area as well, so a throwing circle for shot put and one for discus are needed.

Lastly, the cross country course needs to have 3 short bridges. At this point we have two wet areas with pressure treated plywood, shingle covered 8 foot, make shift bridges.

We actually need 3 and they need to be longer and wider.

Last fall I had to redo the course at the last minute of our second meet because I did not have anymore wood to fix the course with.

Thanks

Dan

---

From: Justin Keleher [jkeleher@brunswick.k12.me.us]

Sent: Friday, February 10, 2012 8:20 AM

To: Daniel Dearing

Subject: Question

Hi Dan,

I am meeting with the facilities study people this AM. One of my recommendations is construct a Field Events area (pit/throwing spots) outside at the Jr. High. I wanted to get your thoughts on this before I talk with them. Would it be helpful?

Thanks,

Justin

**Facilities Master Plan Study  
Staff Questionnaire  
Physical Education Department**

1. Joan Iuzzolino – Physical Education Teacher & Field Hockey Coach
2. Gymnasium
3. 12 – 22 per teacher per period depending on grade level
4. PE class offers an assortment of games, sports, fitness activities both indoors and outdoors. We see all students over a 4 day rotation. Ultimately it would be ideal for students to have PE class everyday. However, additional staff and teaching stations would be necessary to accomplish this. We currently team teach due to space availability for many units in the curriculum. We also do the same units for all grades due to set-up time/take-down issues within the limited teaching space/time constraints.
5. We do set-up during advisor time after cleaning up equipment from a Morning Motion Program serving 40 – 70 students each morning in 3 areas of the gym (main gym, small gym, fitness room) from 7:20 – 7:47. At times, based on curriculum, we have fitness circuits set-up throughout all 3 areas.
6. The school wants students to be active and healthy. Students need opportunities to be active each day and healthier choices served in the cafeteria for breakfast and lunch. The active issue is a scheduling conflict which would require restructuring of the schedule. Based on research data, the more active the students can be on a daily basis, the better their academic scores will be.
7. As is, nurse's room is nearby and not many classes are disturbed by the noise created in PE class. Locker rooms are adjacent but new lockers would improve usage and changing issues due to age of the existing lockers. Additional storage space for PE equipment is needed in proximity to the gym.
8. Additional storage, additional toilets needed in girls' locker room, a larger fitness room is needed to handle the shift in curriculum to more fitness based option with a need for more individual plans for students with health/behavior issues.
9. The small gym could become a fitness room with a horizontal climbing wall, but its current use as a small gym would be lost without building a new small gym space. This additional space is necessary for both classes and after school activities. The current floor in the small gym is in need of being replaced since it is becoming a safety issue with the seams lifting up.
10. A 40' horizontal climbing wall with fold-up locking mats in the small gym would be a great addition to the teaching curriculum as well as a fitness based station. An outside 10' x 12' storage shed to house snow shoes and cross country skis is needed in order to add that to our winter curriculum and give us that optional teaching space during the down time as far as outdoor activities. They are currently not being offered due to lack of equipment and storage for that equipment.

## Facilities needs – ART DEPARTMENT

Cory Bucknam

Barbara Berry-Palm

### Organizational Principles:

- Centralized art rooms – all teams and grade levels have art, central location would be more accessible, and would make it easier to display artwork, and it would be seen by a larger audience
- If art stays in the 300 wing, it needs an ADA compliant entryway, preferably with double doors that remain open, flanked by lighted sculpture display cabinets
- More lighted sculpture display spots in centrally located areas of the school
- Closer teacher gathering place/lounge/workroom

### Required Adjacencies/Separations:

- Kiln room with lockable doors, drying shelves and storage space adjacent to art rooms
- Soundproofing between classrooms and from classrooms into hallways
- Need plenty of storage closets with well-designed shelving for both large and small items – right now we have a common supply room, but need better/more storage/shelving options
- Skylights for proper bright, yet indirect lighting

### Additional Supporting Spaces:

- More centrally-located lighted sculpture display cabinets
- Kiln room (see above)
- Closer student bathrooms
- Cubbies for student belongings
- Larger rooms for increased workspace and mobility
- Nearby gallery/gathering place for critiques and presentations
- More bulletin boards/ or display strips throughout the building
- Outdoor seating for sketching

### Special Equipment or Furnishings:

- **MORE SINKS, AND BETTER PLUMBING!!!**
- More electrical outlets in accessible places
- Well-designed art-specific classroom storage cupboards/counters/shelves/bookcases
- Attached overhead lcd projector to make interactive whiteboard practical
- Extra large cubbies for storage of student art work (minimum 19" x 25" vertical slots)

# Art Classroom Design

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display  
storage  
lighting  
darkening  
windows  
sinks  
ventilation  
doors  
colors  
kilns  
flooring

A quick reference for Architects, School Administrators, and Art Teachers

Marvin Bartel © 2007 (12/09 update) author [bio link](#)

**An ideal art room has some attributes that are the opposite of those needed in standard classroom.** It can be expensive and less than ethical to construct inappropriate and unsafe facilities for learning in visual art.

I write this as an art teacher, designer, artist, and architectural design consultant. This checklist for school artroom design gives a minimum of features needed for art instruction. If you are an art teacher, a new facility is a "chance in a lifetime" to get the kind of teaching space you have always dreamed of. If you are an architect or an administrator, you can take pride in providing the best possible facilities for instruction.

**COST** -- Good design can be less expensive to construct, and is certainly more efficient over the life of the building. A studio art classroom has unique learning needs and safety considerations.

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## DISPLAY SPACE

Design lots of easy to use display space with white or neutral tack board. Some types of cabinet doors can also be used for display space. Have some display walls in the room so a class can put up all their work and discuss it. Provide more space in the hall for public view. An art class that does not display and discuss their own work is missing at least half of the potential art learning. Nearby hallway display surfaces provide a convenient way to share work with other students, teachers, and visitors to the school.

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Plan for locked cases backing to the art room and facing the public hallway. Also, plan secure display cases for both flat and sculptural work near the main entrance and main office of the school. Few things motivate learning in the arts as much as appropriate recognition of hard work, achievement, and ability. Music students have concerts, and school athletes are featured in the local newspaper. Art students are also motivated by recognition of their hard work and successes.

**In an art classroom every inch of wall space is educationally valuable.** Often

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electrical and mechanical drawings are not specific enough when locating switches, fire alarms, heat registers, thermostats, and other stuff that interferes with the display space in an art room. Many workers who install these things tend to place them too far into the center of a wall area that would otherwise be available to display artwork or educational material. Plans need to include specific placement specifications and notes so that contractors can be held accountable for ruining display spaces with thoughtless placement of fixtures, switches, and so on.

### **STORAGE**

Include lots of storage and drying racks. An art room is a production facility with many different groups of students using the same space. Without storage for supplies and for in-process projects, the room soon becomes clogged with individual projects and nothing more can happen. Learning is seriously curtailed when lesson plans are limited because there is no place to put the work from session to session. Include some deep and wide drawer type shelving with suspension hardware for large flat paper and display posters. Consider a few lockable spaces for "teacher only" access for materials and equipment that may be too hazardous or valuable to use without supervision or special instruction.

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Perimeter cabinets are convenient, but some wall space is also needed for windows and for display. Consider shelving in an adjacent room designed as low cost warehouse quality space. Provide a glass wall and/or video cameras to make it easy for the teacher to visually supervise students while they retrieve and stash their work.

### **LIGHTING**

Typical classrooms have lighting that is too general and uniform. Shading and shadows are not visible enough to learn drawing from observation and good sculptural modeling. A visual art learning studio needs direct lighting options and zoned lighting options that can be used when needed.

### **DARKENING THE PROJECTION SCREEN**

Digital projectors produce the best rendition when the screen does not get any ambient light. When projecting verbal information the quality of the dark tones may not matter much. However, in an art class the projector is often used to learn about visual art and art history. Many classrooms cannot be made dark enough to see the details and textures within the dark tones of paintings and photographs when they are projected. Blinds that are absolutely opaque can be used to optimize the projected images. Consider display-boards that slide or fold like shutters to cover windows instead of expensive curtains or high maintenance blinds. Most blinds do a poor job of blocking sunlight well enough.

In K-12 classroom situations, reasonable classroom management may preclude making a room totally dark as one might in a university setting. Therefore, place the screen on the same wall as the windows so that no window light falls directly on the screen. The blinds can be adjusted to allow a reasonable amount of light into the classroom without lighting the screen directly. If the room has no windows, or if the

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room is used in the evening, provide a small amount of dimmable lighting in the room, but aim or shield this lighting so it cannot shine directly on the projection screen.

If the screen cannot be located on the same wall as the windows, it is necessary to have both very opaque window covering as well as dimmable room lighting that is shielded so that no direct light hits the screen surface. Keep in mind that modern motor operated retractable screens may be placed directly in front of cabinets, display boards, and directly in front of windows to maximize the quality of projected images.

## ELECTRICAL OUTLETS

Art classrooms need power for projectors, computers, and charging units for camera batteries. Additionally, many art processes make use of various appliances and equipment such as pencil sharpeners, potters wheels, hot glue guns, paper-making equipment, pug mills, drilling/grinding/finishing tools, enameling kilns, warmers for encaustic, fans, electric irons, dry mounting equipment, spray booths, mixers, blenders, and microwaves.

Require four outlets per box every six feet or less along the perimeter. Island worktables need power as well. If worktables are movable, consider ceiling outlet boxes that allow for drop cords or slim pre-wired power posts mounted on the end of worktables to power strips on the sides under the top of worktables. Avoid interfering with the work surface.

## WINDOWS

Of all the rooms in a school, the art room needs to be located so it has windows with the best possible view for inspiration and for learning. Art rooms need windows for observation drawing and for teaching art concepts about space, depth, form, and perspective. If a view is impossible, insist on windows for light and ventilation. No other school subject or office space is as dependent on windows and good viewscapes as the art room.

## SINKS

Cleanup time is not art learning time, but it has to be done. Good design saves time. Bad design results in lots of standing around and discipline problems. Ask for sinks that are in a peninsula with plenty of room for people around them and for traffic flow. Never locate sinks in a corner where they create congestion. Space sinks as far apart from each other as possible so more people can get at them. Get at least two sinks with two completely separate drain systems in every room. When one clogs, the other should work. If I am only allowed one sink, I try for a big double sink and two faucets and two drains.

## VENTILATION TO REMOVE DUST AND FUMES

I have seen new schools that take the bad air from the kiln room and blow it into the rest of the rooms in the school with the heating system. One of the elementary schools in our community had an air intake that sucked in diesel fumes from the school buses. People in the building got sick. It was moved.



Many materials that were previously thought to be harmless, have been found to be harmful. Dust in an art studio contains chemicals. Spraying of many art materials, fixatives, glazes, and so on, require an appropriate exhaust booth with a dedicated exhaust fan that keeps all fumes away from the user. Clay mixing, glaze mixing, soldering, photography chemicals, printmaking chemicals, and some paint thinners may also require dust or fume removal. If toxins cannot be totally removed at the source, fresh air needs to be supplied to the faces of the students while working. Consider, power, noise, and energy consumption when designing ventilation. In extreme climates, air-to-air heat exchangers may be indicated to save energy.

### **KILN ROOM VENTILATION AND FIREPROOF MATERIALS**

Clay is an excellent, plentiful, traditional, and inexpensive art material. Many clays and glaze ingredients contain air pollutants when fired. Electric kilns need good ventilation to remove toxins from volatile clay impurities and glaze ingredients. Place kilns in separate rooms -- not in the classroom. Masonry walled kiln rooms allow kilns to be closer to the wall. Air from a kiln room needs to go directly outside - never into a common building exhaust or ventilation system. For electric kiln exhaust systems it may be adequate to leave a one-inch gap at the base of the door(s) to the room. The ventilation system should produce a slight negative pressure in the kiln room so no fumes exit the kiln room into the classroom.

Gas kiln flues are extremely hot and need multi-walled air siphon sleeves\* that keep the adjacent roof structure cool during and after firing using convection currents produced by the heat. Never stuff the space between a kiln chimney and a combustible material with insulation. Insulation does not stop the transfer of heat. It merely slows heat transfer. Given enough time, the heat can reach the kindling point of combustible building materials. Buildings have burned when the latent heat of kiln chimneys have passed from the kiln chimney to the building even though the gap was stuffed with insulation. I know of a fire that started after the kiln was off because the chimney continued to transfer heat for hours after the kiln was turned off.

Buildings have burned when room exhaust fans sucked air down the kiln flue system. Kilns with hoods require even larger amounts of room replacement air. Exhaust fans intended to remove heat from kiln rooms can cause building fires because they reverse the chimney flow when there is insufficient air coming into the room. Rooms for gas kilns need a dedicated fail-safe (not closable) air supply for combustion air as well as for any exhaust fan air. Negative pressure in the kiln room of a gas kiln presents a fire hazard. Positive kiln room pressure could pollute the classroom air. Keep a neutral air pressure in the kiln room when gas kilns are used. Follow all kiln manufacturers' recommendations.



**NOTE:** Art teachers in new buildings are complaining of inadequate ventilation in kiln rooms. In some cases fire alarms in the kiln rooms go off during kiln firing. To work around this they have to fire the kiln with the door open with a fan setting in the door. Obviously, this defeats the air quality advantage of having a kiln room.

**Kiln Room Floors:** Fireproof kiln room floors are commonly made of smoothly finished concrete. For appearance sake, I sometimes toss concrete colorant on wet concrete floors before final troweling. A penetrating sealer makes cleaning easier so long as it is thin enough and does not

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compromise the fireproof quality of concrete. If pottery glaze comes through the kiln floor during an accidental overfiring, it could drip at about 2,400 degrees F. If this happens, or if something combustible is accidentally placed too close to the kiln, kicked under the kiln, etc., a building fire may be avoided if the floor of the room is fireproof.

### DOORS

A door that goes directly outdoors from the artroom allows opportunities for pit firing, raku firing, etc. These processes cannot be done indoors. Students love to do their drawing and painting outdoors when the weather permits. Double doors allow easier installation of large pieces of equipment such as a gas kiln. It also makes it easier to bring in pallets of clay for a high school ceramics room.

### COLORS AND SURFACES

Art teachers establish the atmosphere of the environment with the displays of art exemplars, learning aides, and their unique collections of objects, mannequins, and taxidermy observed while making artwork. Art needs to be created and viewed in an atmosphere that does not overly influence the work. Therefore, I stick to neutrals. In most cases, some light grey or off-white is most appropriate. An art room is much like a museum. It allows for the art itself to serve as the decor.

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### FLOORING

Use a sealed surface. Never use carpeting. Paint destroys carpet. Clay dust can never be totally removed from carpet. Because vacuum filters are porous, ordinary vacuums redistribute the most harmful finest silica dust into the air and we unknowingly inhale it. Even with a special vacuum, when you vacuum carpet you always leave some at the surface where it still is scuffed into the air. The best art rooms have floor drains to facilitate daily floor washing if needed. A vacuum can be used for hard surface floors and counters if the vacuum unit is located outdoors with only the negative pressure (vacuum) piping and hoses located indoors.

In an area where potters wheels are used, provide an area where the floor is slightly lower. A fourth inch drop is adequate while not enough to present a tripping hazard. Slightly slant the floor toward a floor drain. Provide a water hose connection so that students can quickly rinse and squeegee the floor at the end of each class period. Kiln rooms need fireproof floors and walls in the vicinity of the kilns. Otherwise, walls need sheet metal or cement board shielding that spaced an inch or more from the walls with free airflow entering at the floor level behind the sheet shield. Never use combustible flooring under kilns. Follow the kiln manufacturer's installation guide.

Also see:

How to Clean & Work With Less Clay Dust <http://www.goshen.edu/art/DeptPgs/clean.html>

Hazards in Ceramics <http://www.goshen.edu/art/DeptPgs/Hazards.html>

\*For a modest cost, the author can supply a shop drawing file for a multi-walled sheet metal sleeve that siphons airflow to keep heat from transferring from a hot kiln chimney to the building's structural members. The design uses only outside air. The convection airflow is powered by the heat

of the chimney. It does not require electricity, and does not allow any inside air to exit, thus saving on air-conditioning and heating costs. Contact the author for details.

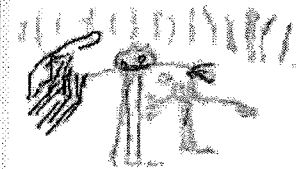
Updated July 3-2009

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The author is available to consult and to review artroom constructions plans at a very nominal fee. Inquire by email for more information.

CONTACT the author

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## MEETING NOTES

Building communities  
since 1870

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To Paul Perzanoski, Facilities Committee, Donna Borowick, JPL, RDM, JWT, BKB, FILE

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From Jeff Larimer

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Date March 20, 2012

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Project Brunswick School Department  
Facilities Master Plan Study  
Brunswick, ME  
Project No. 11533

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Subject BRUNSWICK HIGH SCHOOL  
DEPT. HEAD MEETING OF MARCH 13, 2012

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Present	
Donna Borowick	Principal
Janice Smith	English
Louise Duncan	Foreign Language
Jo Hipsher	Librarian
Jennie Driscoll	Art & Music
Sandy Dolan	Math
Bob Van Milligan	Science
Mary Moore	Guidance
Jeff Larimer	Harriman

---

General comments from the department heads present about their respective areas as well as some broader issues.

1. English
  - a. Classroom space is generally ok.
  - b. Typically there is one teacher assigned per classroom.
  - c. There is one period for prep time when a teacher is not in their classroom.
  - d. Writing lab.
  - e. Add laptops and use of whiteboards throughout the school.
  - f. Concerns about phone location in the classroom. Should be by the teacher's desk.
2. Science
  - a. Generally they are happy with the science classrooms.
  - b. Could use an additional science classroom.
  - c. Science classrooms need additional outlets. Frequently blowing circuits.

## H A R R I M A N

- d. More storage needed.
- e. Chemical storage is ok as they are seeing less chemicals every year.
- 3. Art & Music
  - a. Current space is sufficient and functional.
  - b. Room 114 – needs a double sink.
  - c. Room 129 – lighting not adequate; could use an acoustical ceiling; the drains clog.
  - d. Ventilation is ok.
  - e. Need to check the kiln vent to make sure it working properly.
  - f. Heat does not work in the art office.
  - g. Room 135 – need additional data ports; need blackout shades.
  - h. Ceiling mounted projectors in Rooms 114, 116 and 129.
  - i. Could use door from dark room into classroom. Dark room can only be accessed from corridor.
- 4. Library
  - a. Library is a totally interior space.
  - b. Ventilation becomes an issue when the systems get shut down.
  - c. PA system is outdated.
  - d. Work room needs AC.
  - e. Furniture and carpeting will need replacing.
  - f. Cork board on back wall of library is loose.
  - g. TV studio has an odor that may be emanating from the science room (physics) above.
  - h. Toilets above storage and classroom leak and cause the ceilings to get wet.
  - i. Additional conference room needed. Library classroom ends up getting used by others.
- 5. Foreign Language
  - a. Additional storage shelving is needed
  - b. Would be nice to have chair rails installed on the back walls of classrooms.
  - c. Better air control. Classrooms located on courtyard have no air movement.
  - d. Additional phone jacks at teacher's desk location.
  - e. Language lab still used but needs AC and new wiring.
  - f. Would like to see some common gathering spaces for students.
  - g. Staff toilets are limited to the front half of the building.
  - h. For security reasons, need a 2<sup>nd</sup> access road out of the site.
  - i. Elevator is located towards the front of the building, making access difficult to 2<sup>nd</sup> floor programs when entering the building at the rear.
- 6. Math
  - a. General classroom space is ok.
  - b. Expand technology
  - c. Vents in faculty and nurse's toilet rooms do not seem to be working.
- 7. PE
  - a. Track needs a new surface.
- 8. For additional information and comments, see the attached questionnaires from other staff members.

*If written notice is not received within two weeks of receipt, the above meeting notes represent an accurate summary of the meeting and its conclusions.*

jplar

**STAFF QUESTIONNAIRE**

*Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.*

1. Your Name & Current Position: Catherine Kelley/English teacher

2. Current Room Name and/or Number: 254

3. Average Number of Students per Class: 20

4. Describe your particular program: *(Describe your educational goals, teaching methods, or special educational programs.)*

*English instruction using a seminar approach to discussing literature and small group work to solve problems. I use computers for both research and composition. I enhance instruction with audio or video displays using a ceiling projector linked to my laptop. I must import laptops or take students to a computer lab for writing or research assignments.*

5. Type of work performed: *(Describe the work you do for your particular educational program.)*

Reading comprehension, writing exercises, speaking and listening activities, (including dramatizations and oral interpretation of works studied).

6. Organizational Principles: *(How could the school be better organized to better reflect the school's educational mission and programs?)*

The school has an academic mission, and our current alternative programs within the building support more of a social/behavioral mission than an academic one. I would like to see the Academy located at Union Street since it is not preparing students currently for mainstream subjects. Academy students follow a shorter class schedule and do not participate in regular academic subjects with other students (only some study halls and elective classes). I also believe a disproportionate amount of class space and mainstream staff are dedicated to this program at the expense of staffing and housing more academic-based classes.

7. Required Adjacencies/Separations: *(To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)*

I like the location of my room (near bathrooms, computer lab, and library). I also appreciate having an English office/work space where I can work with students individually. I do not like the disruption of Academy students passing noisily in the halls mid-period.

8. Additional Spaces Required to Support Your Space: *(What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)*

9. Ideas for Flexibility or Future Growth: *(Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)*

10. Special Equipment or Furnishings Required to Support Your Work: *(Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)*  
*I would benefit from laptops in my classroom.*

11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.?)*  
I have bookshelves and space for computers to be wired into my room, but I do not have the wiring or cases for computers. It is important that storage spots for laptops be wide enough to connect power cords (in my previous classroom it was impossible to access wiring due to cramped storage slots).

12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*  
An interactive white board would be beneficial.

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*  
No. I currently have speakers mounted and connected to an overhead projector and my computer.

14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*

15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)*

no

16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)*

no

17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*

no

18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*

*We need a second exit road to alleviate traffic jams and provide for safe evacuation in an emergency*

19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*

20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*

*Second exit road.*

21. Other Spaces: *(Are there any other program spaces that should be added?)*

22. Additional Comments:

Note: Please fill out the questionnaire in advance and return it at the time of your interview. The questionnaire may be completed electronically (MS Word or PDF), typed or hand written. If completed electronically, you may email it to me at the address below prior to the date of your interview. Questionnaires may be completed individually, by team or by department (e.g. English, Math, Art, etc.). Supplemental materials such as sketches, photos, journal articles, etc. are always welcome and are certainly encouraged. The completed questionnaires will be assembled into a binder for everyone's inspection and review.

Contact information:

Jeffrey P. Larimer, AIA  
Associate Principal  
Harriman - Architects & Engineers  
46 Harriman Drive  
Auburn, ME 04210

Phone: 207-784-5100 x311  
Fax: 207-782-3017  
Cell: 207-754-8789  
E-mail: jlarimer@harriman.com

**STAFF QUESTIONNAIRE**

*Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.*

1. Your Name & Current Position: Samantha Francis, English Teacher

2. Current Room Name and/or Number: 247

3. Average Number of Students per Class: 20

4. Describe your particular program: *(Describe your educational goals, teaching methods, or special educational programs.)*

I teach three sections of Junior 'Academic' English, and two sections of Sophomore 'Prep' English. I would like for all of my students to walk away with a love of reading, developed writing skills, and the ability to think critically. I am an energetic and passionate person, and I try to use this enthusiasm in my approach toward the classroom. I have a high number of students with special educational needs. I teach a 'co-taught' class with a member of the special education department and am in constant communication with this department.

5. Type of work performed: *(Describe the work you do for your particular educational program.)*

I am a new teacher, so there is absolutely no 'down' or wasted time for me. I am either teaching, monitoring study hall, planning furiously during prep periods, or grading until the wee afternoon hours.

6. Organizational Principles: *(How could the school be better organized to better reflect the school's educational mission and programs?)*

Overall, I think this school is extremely organized. Effective and timely communication is, I think, one of the school's strengths. There are technical/computer programs that need to be fixed in order for me to be able to access certain programs—but I think this is an isolated case (and due to my new-ness). I wish there were more opportunities to communicate across departments.

7. Required Adjacencies/Separations: *(To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)*

I certainly wish there was a photocopier closer to me. It'd be incredible to have a printer in my room.

8. Additional Spaces Required to Support Your Space: *(What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)*

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9. Ideas for Flexibility or Future Growth: *(Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)*

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10. Special Equipment or Furnishings Required to Support Your Work: *(Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)*

My students and I would benefit enormously if there were a projector installed. I have to wheel out a cart every single time I want to plug in the computer to show a clip and it can create physical/spatial inconveniences. A white board would also be helpful in teaching grammar and writing skills more effectively. A podium, of some sort, would also be great for 'lecturing.' I feel I never have a place to stand or keep my notes, so I just end up romping all over the room and speaking from memory. Not sure how effective that is (long term).

11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.?)*

--

12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*

My room is smaller, and this cuts me off from my board sometimes. I can't access the chalkboard for writing down notes/ideas as much as I'd like, because the students' desks get in the way. The best way to have them seated for viewing the board (and my access to it), is if I put them in standard rows. But I believe in switching up my seating, so it creates a few problems here and there.

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*

No

14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*

No

15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)*

No

16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)*

I still don't know how to check my voicemail here at school. It never works when I try to fix it.

17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*

The temperature fluctuates enormously because of the position of the classroom within the building. It's erratic and annoys the kids. I'm often cold.

18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*

--

19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*

--

20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*

--

21. Other Spaces: *(Are there any other program spaces that should be added?)*

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22. Additional Comments:

Note: Please fill out the questionnaire in advance and return it at the time of your interview. The questionnaire may be completed electronically (MS Word or PDF), typed or hand written. If completed electronically, you may email it to me at the address below prior to the date of your interview. Questionnaires may be completed individually, by team or by department (e.g. English, Math, Art, etc.). Supplemental materials such as sketches, photos, journal articles, etc. are always welcome and are certainly encouraged. The completed questionnaires will be assembled into a binder for everyone's inspection and review.

Contact information:

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Associate Principal  
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46 Harriman Drive  
Auburn, ME 04210

Phone: 207-784-5100 x311  
Fax: 207-782-3017  
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1. Your Name & Current Position: James O'Donnell: English Teacher
2. Current Room Name and/or Number: Room 202
3. Average Number of Students per Class: 20-22
4. Describe your particular program: *(Describe your educational goals, teaching methods, or special educational programs.)*

I suppose I teach from a traditional model, but I'm flexible with seating and enjoy innovation when it brings intended results; I maintain/ prefer student –centered instructional strategies; I continue to use chalk, but primarily as a point of reference; I rely on notebooks for word processing, classroom research, and a number of tech-based language arts initiatives; I involve at least one collaborative exercise/ extended team challenge per unit; I involve students in oral recitations, presentations, memorizations etc. at least once per quarter; I believe in multiple assessments to target multiple learning modalities; I require students to be active and engaged in all class events; I believe all students can succeed and perform better when given many opportunities to be evaluated; I believe discipline problems generally arise when students become detached from the academic focus intended for the classroom and are given too much latitude for recreational expression; while school can be 'fun', it should not be a priority for any classroom- it's more important that school be purposeful, meaningful and satisfying for students and teachers.

5. Type of work performed: *(Describe the work you do for your particular educational program.)*
6. Organizational Principles: *(How could the school be better organized to better reflect the school's educational mission and programs?)*

While I understand the advantages of blocking particular departments in one area, there should be opportunities/ requirements (spaces) for collaboration between/ among various disciplines to accomplish interdisciplinary goals and to encourage students to value the eclectic challenges and rewards of high school academic/social experience.

7. Required Adjacencies/Separations: *(To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)*

## SCIENCE LAB REQUIREMENTS

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1. Current Design Information			
a. Name & Current Position:	B. PRESSLEY	J. HIRSHOR	D. KONIGLECKO; Sci. Teachers
b. Current Room Name/Number:	236	232	235
c. Number of Students per Class:	14-24	10-24	6-21
d. Science Program Taught:	PHYSICS	GEOPHYS. Sci.	GEOPHYS. Sci. + Chem.
e. Current Room:			
i. Classroom only:			
ii. Laboratory only:	iii	iii	iii
iii. Combination:			
f. Other			

2. Science Lab Design				
	B.P.	Existing	J.H DK.	Would Like to Have
a. Current Lab Configuration:				
i. Perimeter stations:	i + iii	i + iii	i + iii	
ii. Island stations:				
iii. Lab tables:				
b. Number of lab workstations:	12 TOTAL	12 TOTAL	12 TOTAL	
c. Demonstration Table:				
i. Fixed:	i	i	i	
ii. Mobile:				
iii. Utilities:				
iv. Equipment				
d. Number of Handicap Stations:	1	1	1	
e. Other:				

3. Support Spaces				
	B.P.	J.H	DK.	Would Like to Have
a. Office:	Existing			
i. Number of People:	2	2	1	
ii. Furnishings:	DESK, CHAIR, CABINETS, FILE CAB.			
b. Prep Room:				
i. Storage Requirements:	i - V. LIMITED			MUCH MORE →
ii. Counters:	ii - V. LIMITED			MORE →
iii. Special Equipment:	iii - V. LIMITED			
iv. Special Storage Needs:				
v. Furnishings:				
vi. Sinks:	1	1	0	
vii. Utilities:	WATER, GASET.		ELECT.	MORE GAS TAPS IN CLASSROOM.

4. General Lab Requirements	Existing			Would Like to Have
a. Furnishings:				
i. Markerboards:	i. CHALK			
ii. Tackboards:	ii. SCREEN			
iii. A/V Equipment:	OH PROJ. & WIRING			
iv. Computer Equipment:	LIMITED			MORE NEEDED
v. Storage:				
vi. Other:				
b. Window Treatment:				
i. Light dimming shades:	ii	ii	ii	
ii. Blackout shades:				
c. Base Cabinets:				
i. Drawers:	i	i	i	
ii. Doors:	ii	ii	ii	
iii. Open Shelving:				
iv. Special Storage:	GLASS CASES			
v. Knee Space:				
vi. Locks:	ALL DRAWERS & DOORS			
vii. Other:				
d. Wall Cabinets:				
i. Solid Doors:	ii	ii	ii	
ii. Glass Doors:				
iii. Open Shelving:	iv	iv	iv	
iv. Locks:				
v. Other:				
e. Tall Cabinets:				
i. Teacher's Wardrobe:				
ii. Storage:				
iii. Locks:				
iv. Other:				
f. Countertops:				
i. Plastic Laminate:	ii	ii	ii	
ii. Resin:				
iii. Stone:				
iv. Other:				
g. Open Shelving:				
h. Display Cabinets:				
i. Plumbing Requirements:				
i. Sinks:				
1. Stainless Steel:	2	2	2	
2. Resin:				
3. Other:				
		Existing		Would Like to Have
ii. Water:				
1. Cold	1, 2	1, 2	1, 2	
2. Hot				
iii. Both Air:				
iv. Gas:	iv	iv	iv	
v. Vacuum:				
vi. Emergency Shower/Eyewash:	vi			

<ul style="list-style-type: none"> <li>vii. Drain Racks:</li> <li>viii. Floor Drains:</li> <li>ix. Emergency shut-offs: <ul style="list-style-type: none"> <li>1. Gas</li> <li>2. Water</li> </ul> </li> <li>x. Other:</li> </ul>					
<ul style="list-style-type: none"> <li>j. Electrical Requirements: <ul style="list-style-type: none"> <li>i. Power (120/208):</li> <li>ii. Duplex Outlets:</li> <li>iii. Plug strips:</li> <li>iv. Tel/Data Outlets:</li> <li>v. Computer Equipment:</li> <li>vi. TV: Cable or Satellite</li> <li>vii. General Lighting Type:</li> <li>viii. Grow lights:</li> <li>ix. Dedicated outlets for special equipment:</li> <li>x. Other:</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>i. 20</li> <li>ii</li> <li>iii</li> <li>iv</li> <li>vii: FROUARESCENT</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>
<ul style="list-style-type: none"> <li>k. Mechanical Requirements: <ul style="list-style-type: none"> <li>i. Heat:</li> <li>ii. Ventilation:</li> <li>iii. Special ventilation or exhaust:</li> <li>iv. Other:</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>
<ul style="list-style-type: none"> <li>l. General Equipment: <ul style="list-style-type: none"> <li>i. Fume Hood(s):</li> <li>ii. Refrigerator:</li> <li>iii. Range:</li> <li>iv. Dishwasher:</li> <li>v. Specialty equipment:</li> <li>vi. Counter-type equipment:</li> <li>vii. Other:</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>	<ul style="list-style-type: none"> <li>i</li> <li>ii</li> </ul>

## 5. General Comments

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1. Current Design Information			
a. Name & Current Position:	P. KING	S. KIRK	S. DUMONT; Sci. TEACHERS
b. Current Room Name/Number:	226	230	223
c. Number of Students per Class:	14-22	10-22	21-22
d. Science Program Taught:	Biol. ANATOMY	Biol.	Biol., ARBIO.
e. Current Room:			
i. Classroom only:			
ii. Laboratory only:			
iii. Combination:	iii		→
f. Other			

2. Science Lab Design		Existing	Would Like to Have
a. Current Lab Configuration:			
i. Perimeter stations:	i	→	
ii. Island stations:			
iii. Lab tables:	iii	→	
b. Number of lab workstations:	12	→	
c. Demonstration Table:			
i. Fixed:	i	→	
ii. Mobile:			
iii. Utilities:	iii (WATER, GAS)	→	
iv. Equipment			
d. Number of Handicap Stations:	1	1	1
e. Other:			

3. Support Spaces		Existing	Would Like to Have
a. Office:			
i. Number of People:	2	2	2
ii. Furnishings:	DESK, CHAIR, CABINETS, FILE		
b. Prep Room:			
i. Storage Requirements:	i CHEM. & EQUIP.	→	MORE FOR EQUIP.
ii. Counters:	ii	→	MORE
iii. Special Equipment:			
iv. Special Storage Needs:			
v. Furnishings:			
vi. Sinks:	vi	vi	vi
vii. Utilities:	vii	vii	vii

4. General Lab Requirements		KING	KIRK	DUMONT	
		Existing			Would Like to Have
a. Furnishings:					
i. Markerboards:		1 CHALK	W.B.	CHALK	
ii. Tackboards:		71'			
iii. A/V Equipment:		SCREEN	WHITE BO.		
iv. Computer Equipment:		DIG. OH		DIG. OH	
v. Storage:		MINIMAL			MORE STORAGE
vi. Other:					
b. Window Treatment:					
i. Light dimming shades:		71			
ii. Blackout shades:					
c. Base Cabinets:					
i. Drawers:		i			
ii. Doors:		ii		iii	DOORS (DUMONT)
iii. Open Shelving:					
iv. Special Storage:					
v. Knee Space:					
vi. Locks:		VI			
vii. Other:					
d. Wall Cabinets:					
i. Solid Doors:		71			
ii. Glass Doors:					
iii. Open Shelving:					
iv. Locks:		IV			
v. Other:					
e. Tall Cabinets:					
i. Teacher's Wardrobe:					
ii. Storage:					
iii. Locks:					
iv. Other:					
f. Countertops:					
i. Plastic Laminate:		ii			
ii. Resin:					
iii. Stone:					
iv. Other:					
g. Open Shelving:					
h. Display Cabinets:					
i. Plumbing Requirements:					
i. Sinks:					
1. Stainless Steel:		2			
2. Resin:					
3. Other:					
		Existing			Would Like to Have
ii. Water:					
1. Cold		1			
2. Hot		2			
iii. Both Air:		IV			
iv. Gas:					
v. Vacuum:					
vi. Emergency Shower/Eyewash:		VI			



	KING	KIRK	DUNN	
vii. Drain Racks:	VII			
viii. Floor Drains:	VIII			
ix. Emergency shut-offs:				
1. Gas	I			
2. Water				2. —————→
x. Other:				
j. Electrical Requirements:				
i. Power (120/208):	I			} MORE CAPACITY →
ii. Duplex Outlets:	II			
iii. Plug strips:	III			
iv. Tel/Data Outlets:	IV			
v. Computer Equipment:	OH PROJ. (ORIGINAL)			
vi. TV: Cable or Satellite				
vii. General Lighting Type:	FLUORESCENT			
viii. Grow lights:			VIII	
ix. Dedicated outlets for special equipment:				
x. Other:				
k. Mechanical Requirements:				
i. Heat:	I	I	I	
ii. Ventilation:	II	II	II	
iii. Special ventilation or exhaust:				
iv. Other:				
l. General Equipment:				
i. Fume Hood(s):	II		I	
ii. Refrigerator:				
iii. Range:				
iv. Dishwasher:				
v. Specialty equipment:				
vi. Counter-type equipment:				
vii. Other:				V (AUTOCLAVE)

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1. Current Design Information			
a. Name & Current Position:	T. KUTCH	B. VAN M.	D. MARILL; Sci. TEACHERS
b. Current Room Name/Number:	231	229	227
c. Number of Students per Class:	12-24	14-18	7-18
d. Science Program Taught:	CHEM. ENV. SCI.	CHEM	PHYSICS, GEO. SCI.
e. Current Room:			
i. Classroom only:			
ii. Laboratory only:			
iii. Combination:	iii →		
f. Other			

2. Science Lab Design		Existing	Would Like to Have
a. Current Lab Configuration:			
i. Perimeter stations:	i → ii		
ii. Island stations:			
iii. Lab tables:			
b. Number of lab workstations:	12	→	
c. Demonstration Table:			
i. Fixed:	i → ii		
ii. Mobile:	ii		
iii. Utilities:	GAS, ELECT., WATER		
iv. Equipment			
d. Number of Handicap Stations:	1	1	1
e. Other:			

3. Support Spaces		Existing	Would Like to Have
a. Office:			
i. Number of People:	2	2	2
ii. Furnishings:	SAME AS OTHERS →		
b. Prep Room:			
i. Storage Requirements:	CHEM. + EQUIP.	EQUIP.	MUCH MORE FOR EQUIP.
ii. Counters:	MINIMAL		MORE NEEDED
iii. Special Equipment:			
iv. Special Storage Needs:	KITS (LAB & DEMO)		MORE NEEDED
v. Furnishings:			
vi. Sinks:	VI →		
vii. Utilities:	ELECT. & AIR		GAS

4. General Lab Requirements	T.H.	BVM	D.M.	Existing	Would Like to Have
a. Furnishings:					
i. Markerboards:	CHALK			→	
ii. Tackboards:	ii			→	
iii. A/V Equipment:	SCRIBER, OR DIGITAL PROJ.				
iv. Computer Equipment:					
v. Storage:	MINIMAL			→	MORE NEED
vi. Other:					
b. Window Treatment:					
i. Light dimming shades:	ii			→	
ii. Blackout shades:	ii			→	
c. Base Cabinets:					
i. Drawers:	i			→	
ii. Doors:	ii			→	
iii. Open Shelving:					
iv. Special Storage:					
v. Knee Space:					
vi. Locks:	vi			→	
vii. Other:					
d. Wall Cabinets:					
i. Solid Doors:	i	NONB			NEED
ii. Glass Doors:					
iii. Open Shelving:		iii	iii		
iv. Locks:	iv			→	
v. Other:					
e. Tall Cabinets:					
i. Teacher's Wardrobe:	ii			→	
ii. Storage:	iii			→	
iii. Locks:					
iv. Other:					
f. Countertops:					
i. Plastic Laminate:	ii			→	
ii. Resin:					
iii. Stone:					
iv. Other:					
g. Open Shelving:					
h. Display Cabinets:					
i. Plumbing Requirements:					
i. Sinks:					
1. Stainless Steel:					
2. Resin:	2			→	
3. Other:					
				Existing	Would Like to Have
ii. Water:					
1. Cold	1			→	
2. Hot	2			→	
iii. Both Air:	iii			→	
iv. Gas:	iv			→	
v. Vacuum:					
vi. Emergency Shower/Eyewash:	vi			→	

	TH	BVM	DM	TH	BVM	DM
vii. Drain Racks:	VII					
viii. Floor Drains:	VIII					
ix. Emergency shut-offs:						
1. Gas	I					
2. Water				2		
x. Other:						
j. Electrical Requirements:						
i. Power (120/208):	I					
ii. Duplex Outlets:	II					
iii. Plug strips:	III					
iv. Tel/Data Outlets:	IV					
v. Computer Equipment:						
vi. TV: Cable or Satellite						
vii. General Lighting Type:						
viii. Grow lights:						
ix. Dedicated outlets for special equipment:						
x. Other:						
k. Mechanical Requirements:						
i. Heat:						
ii. Ventilation:						
iii. Special ventilation or exhaust:						
iv. Other:						
l. General Equipment:						
i. Fume Hood(s):	I					
ii. Refrigerator:						
iii. Range:						
iv. Dishwasher:						
v. Specialty equipment:						
vi. Counter-type equipment:						
vii. Other:						

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E-mail: [jlalimer@harriman.com](mailto:jlalimer@harriman.com)

**SCIENCE LAB REQUIREMENTS**

Harriman has been retained by the Brunswick School Department to prepare a facilities master plan of the existing Brunswick schools. The goal of the study is to determine what may be needed programmatically as well as physically to update and enhance the current educational environment. This questionnaire is to be completed by both teaching and non-teaching staff members. If you are a non-teaching staff member, please complete as many questions as may apply to you. The first five questions ask for general information about you and your current spaces and programs. The remaining questions are about what you would like to see changed or improved to better serve the needs of the faculty, staff, students and community members of your school. In addition to thinking about your own specific needs, try to think about the needs of everyone. Remember, your input is important.

1. Current Design Information	
a. Name & Current Position:	A. McCULLOUGH S. PHILLIPS; ACADEMY <del>SCIENCE</del> <del>TEACHERS</del>
b. Current Room Name/Number:	221 (NONE)
c. Number of Students per Class:	8-9 8-18
d. Science Program Taught:	ACAD. GEOPHYS. ACADEMY GEOPHYS. BIOLOGY
e. Current Room:	
i. Classroom only:	
ii. Laboratory only:	
iii. Combination:	iii NONE
f. Other	(OFFICE)

2. Science Lab Design		Existing	Would Like to Have
a. Current Lab Configuration:			
i. Perimeter stations:	i	—	
ii. Island stations:			
iii. Lab tables:			
b. Number of lab workstations:	12	—	
c. Demonstration Table:			
i. Fixed:	i		
ii. Mobile:		ii	
iii. Utilities:	GAS, WATER, ELEC.	—	
iv. Equipment		—	
d. Number of Handicap Stations:	1	—	
e. Other:			

3. Support Spaces		Existing	Would Like to Have
a. Office:			
i. Number of People:	2	1	
ii. Furnishings:	SAME AS OFFICE	SAME + PHOTO COPIER	
b. Prep Room:			
i. Storage Requirements:	CHEM. SUPPLIES		MORE SPACE NEEDED
ii. Counters:	ii		MORE NEEDED
iii. Special Equipment:			
iv. Special Storage Needs:			
v. Furnishings:			
vi. Sinks:	YES		
vii. Utilities:	ELEC., WATER		

4. General Lab Requirements	AMC	SP.	
		Existing	Would Like to Have
a. Furnishings:			
i. Markerboards:	WH108		
ii. Tackboards:	BD.		
iii. A/V Equipment:	YOS		
iv. Computer Equipment:	041 PROJ		
v. Storage:	W.B.		
vi. Other:	SOMB		MORE STORAGE MAYBE
b. Window Treatment:			
i. Light dimming shades:			
ii. Blackout shades:	ii	NO WINDOWS	
c. Base Cabinets:			
i. Drawers:	i		
ii. Doors:	ii		
iii. Open Shelving:			
iv. Special Storage:			
v. Knee Space:	v.		
vi. Locks:			
vii. Other:			
d. Wall Cabinets:			
i. Solid Doors:	ii.		
ii. Glass Doors:			
iii. Open Shelving:	iv.		
iv. Locks:			
v. Other:			
e. Tall Cabinets:			
i. Teacher's Wardrobe:	ii.		
ii. Storage:	iii.		
iii. Locks:			
iv. Other:			
f. Countertops:			
i. Plastic Laminate:	ii		
ii. Resin:			
iii. Stone:			
iv. Other:			
g. Open Shelving:		IN OFFICE	
h. Display Cabinets:			
i. Plumbing Requirements:			
i. Sinks:			
1. Stainless Steel:	2		
2. Resin:			
3. Other:			
		Existing	Would Like to Have
ii. Water:			
1. Cold	1		
2. Hot	2		
iii. Both Air:	iv		
iv. Gas:			
v. Vacuum:			
vi. Emergency Shower/Eyewash:	vi		

## 5. General Comments

Contact information:

Phone: 207-784-5100 x311  
Fax: 207-782-3017  
Cell: 207-754-8789  
E-mail: [jarlimer@harriman.com](mailto:jarlimer@harriman.com)

## STAFF QUESTIONNAIRE

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1. Your Name & Current Position: *Jennie Driscoll / Art + Music*
2. Current Room Name and/or Number:
3. Average Number of Students per Class:
4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.)  
*A fine arts program exploring processes + techniques such as drawing, painting, printing, photography, digital, ceramics, sculpture.*
5. Type of work performed: (Describe the work you do for your particular educational program.)  
*Ceramics, sculpture*
6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)
7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)  
*Door from 133 into 135 classroom or 131 Clay room*
8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)  
*Music - more rehearsal space  
? - can be schedule issue*
9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)
10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.)  
*IMAC LAB  
Black out shades on windows  
3 - Ceiling mount projectors  
Resurface tables clay studio*



11. Special Storage Requirements: (Please describe your needs for shelving, casework, closets, etc.?)  
*current storage is sufficient*
12. Finishes: (What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)  
*add carpet*
13. Acoustic Requirements: (Do you require any special acoustic isolation or sound treatment for your room?)  
*Add ceiling to Room 129*
14. Mechanical Requirements: (In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)  
*check venting on  
kitchens  
+ darkroom + Room 129*
15. Plumbing Requirements: (Do you have any special requirements for sinks, water fountains, floor drains, etc.?)  
*Add a double sink to room 114  
Fix Drains - Room 131*
16. Electrical and Technology Requirements: (In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)  
*A/C Room 135  
Data ports Room 135*
17. Lighting Requirements: (In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)  
*Increased lighting in room 129  
blackout shades room 135*
18. Security Requirements: (What suggestions do you have to improve the security of the building and the site?)
19. Accessibility: (What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)
20. Site Development and Outdoor Activity Spaces: (What could be improved in the overall site and outdoor activity spaces?)
21. Other Spaces: (Are there any other program spaces that should be added?)  
*Side area for learning*

**STAFF QUESTIONNAIRE**

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1. Your Name & Current Position: *Jo Hipsher Librarian*
2. Current Room Name and/or Number: *Library*
3. Average Number of Students per Class: *We serve all students 9-12.*
4. Describe your particular program: *(Describe your educational goals, teaching methods, or special educational programs.) We offer a comprehensive program of library media services to all students, teachers and staff.*
5. Type of work performed: *(Describe the work you do for your particular educational program.) The library staff performs a wide variety of tasks related to providing library services - reference, reading guidance, selection/ordering of materials, scheduling/delivering/maintaining audiovisual programs + equipment, web site maintenance, publicity, budget development + maintenance, and so forth.*
6. Organizational Principles: *(How could the school be better organized to better reflect the school's educational mission and programs?)*
7. Required Adjacencies/Separations: *(To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)*
8. Additional Spaces Required to Support Your Space: *(What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)*
9. Ideas for Flexibility or Future Growth: *(Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)*
10. Special Equipment or Furnishings Required to Support Your Work: *(Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?) Although these furnishings are very satisfactory now, some furniture (tables + chairs) and carpeting will need to be replaced in the future.*

11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.?)*

12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*

14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)* The AV workroom (which houses computer servers, the media retrieval system, the video streaming server and data unit, the PA system, phone wiring for the building) should be air conditioned. Ideally, the entire library facility should have air conditioning.

15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)* No requirements in library. However, the drain system in the boys' + girls' bathrooms on the 2nd floor above the library classroom + the AV equipment storage room should be examined. Overflows in the bathrooms have leaked and stained the ceiling tiles in these library spaces because of insufficient drainage.

16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)* The building PA system is housed (head end) in the AV workroom. This system should be reviewed for potential updating or replacement.

17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*

18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*

19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*

20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*

★ 21. Other Spaces: *(Are there any other program spaces that should be added?)* One or more conference rooms are needed somewhere in the building. Original rooms designated for this purpose have been reassigned to other uses. As a result, administrative and guidance staff often want to use the library classroom as a conference room. The library classroom (from the very beginning) was designed as a space for the librarian to teach library instructional skills classes. This space was counted as part of the

(21. continued)

"student usable" space required by the Me. Dept. of Education  
for high school libraries serving the size of the  
Brunswick High School population.

## 22. Additional Comments:

Temperature and fresh air recycling in the library areas is inconsistent. A review of the air handling system should be done. This is especially important in the library as it is an entirely internal area, with no outside windows available for use. In warm months it seems that the air handling system does not work properly (or is turned off overnight) when

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cool air  
could be  
brought  
in to  
lower  
warm  
temperature

## Contact information:

Jeffrey P. Larimer, AIA  
Associate Principal  
Harriman - Architects & Engineers  
46 Harriman Drive  
Auburn, ME 04210

Phone: 207-784-5100 x311  
Fax: 207-782-3017  
Cell: 207-754-8789  
E-mail: jlarimer@harriman.com

**STAFF QUESTIONNAIRE**

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1. Your Name & Current Position: *Carla Selberg*
2. Current Room Name and/or Number: *Consumer Life Department Rm 123 & 125*
3. Average Number of Students per Class: *20*
4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.)  
*I teach Food Science + International Cuisine and use 5 Kitchens as cooking labs. I use a room w/ sewing equipment for Fiber Art.*
5. Type of work performed: (Describe the work you do for your particular educational program.)  
*Teaching, Demonstrating, watching Videos, ~~video editing~~ Computer research + projects, Sewing, cooking, laundry.*
6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)
7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)  
*123, 125 + 119 need to all be connected in the same area as we rotate through these spaces*
8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.)
9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)  
~~*to have access to a classroom.*~~  
*Computers (20) in Classroom. Computer Cart?*
10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)  
*> 20 + Computers -*
11. Special Storage Requirements: (Please describe your needs for shelving, casework, closets, etc.?)  
*Storage for computers -*
12. Finishes: (What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*
14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*
15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)*
16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)*
17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*
18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*  
A Black out curtain over door + window in Rm. 123
19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*
20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*  
Atrium is under used
21. Other Spaces: *(Are there any other program spaces that should be added?)*
22. Additional Comments:

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## STAFF QUESTIONNAIRE

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1. Your Name & Current Position: *Kathy Tuttle / physical Education*
2. Current Room Name and/or Number: *Gymnasium*
3. Average Number of Students per Class: *30*
4. Describe your particular program: (Describe your educational goals, teaching methods, or special educational programs.) *physical Education classes are taught every period each day.*
5. Type of work performed: (Describe the work you do for your particular educational program.)
6. Organizational Principles: (How could the school be better organized to better reflect the school's educational mission and programs?)
7. Required Adjacencies/Separations: (To improve the delivery of your programs, what rooms or spaces should be near your room and what rooms or spaces should be far away from your room?)  
*Weight Room / small gym*
8. Additional Spaces Required to Support Your Space: (What are you lacking now? For example: Storage rooms, conference rooms, toilet rooms, etc.) *Bigger storage room, larger auxiliary gym*
9. Ideas for Flexibility or Future Growth: (Movable walls, multiple functions in the same rooms, capacity for expansion, etc.?)
10. Special Equipment or Furnishings Required to Support Your Work: (Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.?)



11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.?)*

*Equipment on floor, shelving would move things up.*

12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*

*New floor in small gym. Matting on concrete is getting old*

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*

14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*

15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.?)*

*Water fountain in wt room and outside small gym*

16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.?)*

17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.?)*

18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*

19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*

20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)*

21. Other Spaces: *(Are there any other program spaces that should be added?)*

**Donna Borowick**

---

**From:** Eugene Keene

**Sent:** Tuesday, March 13, 2012 1:21 PM

**To:** Donna Borowick

**Subject:** Survey

Can't find the survey.

Our track will need work soon.

Eugene R. Keene, Jr. CAA  
Brunswick High School  
116 Maquoit Road  
Brunswick, Maine 04011  
Office - 319-1920  
Cell - 751-5325  
Fax - 798-5517

10. Special Equipment or Furnishings Required to Support Your Work: *(Please describe your needs for furniture, file cabinets, educational equipment, technology, appliances, tools, etc.)* The wood lab could use desks to separate the classroom from lab. I believe a student sitting at work benches is not ideal for teaching.

11. Special Storage Requirements: *(Please describe your needs for shelving, casework, closets, etc.)*

Saw dust collector could be enlarged. It is undersized and seems to be always full

12. Finishes: *(What could be improved in terms of floor, wall and ceiling finishes and do you have any specific requirements?)*

The ceiling in the wood lab (002) and also tech 3 would benefit from having a drop ceiling.

The floor in the wood lab looks awful. During construction the sealer was not applied correctly.

The floor would be much better as a wood floor.

13. Acoustic Requirements: *(Do you require any special acoustic isolation or sound treatment for your room?)*

No

14. Mechanical Requirements: *(In addition to general improvements to the heating and ventilation systems, do you have any special ventilation or exhaust requirements for your room or for specialized equipment?)*

Saw dust collector and air filter

15. Plumbing Requirements: *(Do you have any special requirements for sinks, water fountains, floor drains, etc.)*

16. Electrical and Technology Requirements: *(In addition to general improvements to the electrical and technology systems, do you have any special requirements for power, lighting, telephone, data, etc.)*

The cad lab room 127 is set up well

17. Lighting Requirements: *(In addition to general improvements to the lighting systems, do you have any special requirements for task lighting, natural daylighting, dimming, blackout shades, etc.)*

none

18. Security Requirements: *(What suggestions do you have to improve the security of the building and the site?)*

none

19. Accessibility: *(What suggestions do you have to improve accessibility of the building and the educational programs for those people with disabilities?)*

none

20. Site Development and Outdoor Activity Spaces: *(What could be improved in the overall site and outdoor activity spaces?)* none

21. Other Spaces: *(Are there any other program spaces that should be added?)*

22. Additional Comments:

We should be looking at a preventative maintenance program now that the high school is over 15 years old. Ie...carpets, furniture, windows, door handles, floor tile, science and tech equipment,

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E-mail: jlarimer@harriman.com

Facilities Study:  
Special Education services  
Brunswick High School:

Special education services Current population is 160 students,

Special education teachers deliver direct instruction in their classrooms for 3-4 of 4 periods a day and the class size can range from 4 to 20. Some rooms can only hold up to 10 students.

### **Special equipment or furnishings:**

Chairs and tables that are suited for regular class work that fit the high school student and seating that address sensory needs of students who need to participate for 85 minutes at a time or are in the classroom the entire day.

Desks and chairs that are the right height for laptop use.

Tables of different configurations to accommodate different sized groups.

Noise sensitivity and distractibility for some students would mean that the classrooms should not be near noisy environments. (i.e.: band/music, gym/ cafeteria). On the flip side the students in special education can also be the source of the noise and we need to be sensitive to classroom placement.

### **Special Storage Requirements:** Regular Classrooms

Shelving for laptop and adaptive devices storage

A locking closet for student equipment

### **Functional life skills: FLS**

Shelves for laundry

Cabinets for the kitchen that can be locked

Modify the existing storage area to better store large awkward materials.

More small grouping spaces available

### **Acoustic requirements:**

Is the school designed to have an auditory trainer loop for each wing of the school (for hearing impaired students)?

Soundproof walls (environmentally/allergy free)

Carpeting on floors (environmentally/allergy free)

### **Electrical and Technology Requirements:**

Many grounded outlets for the adaptive equipment and computer use.

Multiple phone jacks in classrooms

Interactive boards for the special education classrooms (currently there are 8 classrooms)

A designated video projector in classrooms if smart boards are not in the budget

### **Lighting requirements:**

Lighting that is appropriate for students with seasonal affect disorder and seizures

Natural daylight for classrooms as much as the design allows.

Allow for softer lighting to create calming effect for students.

**Security requirements:**

Wheel chair accessible sites in each wing in case of emergency lock down.

Wheel chair accessibility to upstairs rooms. Currently there is no way to get non ambulatory students down the stairs if elevator is shut off.

**Accessibility:**

Wheel chair access to at least one bathroom per floor, with a stall that allows adult support for lifting assist.

Currently there is only one access road in to the high school.

**Site Development and outdoor Activity Space:**

Shaded areas for students in wheel chairs or those that have low tolerance to extended time in sunlight to participate in activities.

Basketball hoop for activities during summer program as gym and fields are often being used or redone during that time.

**Other Spaces:**

Another conference room for special education meetings

2 spaces for testing for evaluations where the student and staff will feel comfortable for 3-4 hours at time.

An area where students can go to take test or quizzes or get small group or individual instruction.

An Office for the school psychological examiner

An office for the Social Worker

An Office for the special education department chair

**\*The Emotional Disability Program (Connections)**

A classroom space that is open but has individual workspaces for up to 15 students supported by three staff.

There needs to be an area where student can go to decompress and or address emotional needs. More availability of spaces as teaching at four different levels is taking place in one classroom.

**Additional**

Room Temperature

\*Summer school services are held here each July/August. The main Functional life skills classroom gets to be over 90 degrees. Opening the windows is not always the answer.

The other classrooms are in the 80-degree range.

\*OT/PT area

With the significant physical needs of the upcoming students part of the FLS room will need to be dedicated to OT/PT needs. We currently use a classroom with not natral lighting or ventilation.

## Reference Documents

### Capital Asset Management & Hazardous Materials Reports

The Capital Asset Management Report and the Hazardous Materials Report that follow were prepared by the Brunswick School Department and an outside consultant, Midcoast Environmental, respectively to assess the current conditions at the various school department's facilities.

Harriman includes the information in this report for reference purposes only and takes no responsibility for the accuracy of the data or any estimated costs contained therein.



SAU: Brunswick School Department  
Facility: Boiler House

Asset Name: BH - Building  
Asset Number: 1

## STATISTICS

FCI Cost:	45,649	FCI:	0.09
Total Requirements Cost :	45,649	RI:	0.09

Current Replacement Value	516,291	Address 1	Columbia Avenue
Size	1,176 SF	Address 2	-
Year Constructed	1966	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	School District Owned	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Heating
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	0
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	No	Security Cameras Used	Yes
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.





Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	No	Fire Alarms	Yes

All costs in USD.



Emergency Generator No

## Access Control Description

Unmanned space. Doors kept locked.

## Emergency Pwr Other Systems

-

## PHOTO



Boiler House

Front elevation of Boiler House.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports replacign the main heating HW pumps with 4 new 3 HP Taco FI3007 pumps with VFDs in Nov. 2009 for a total of \$46,791.

FY09 ----->

\*Staff reports replacing the wooden egress doors with steel double doors & panic hardware in Sept. 2008 for \$3,360.

FY08 ----->

\*Staff reports that the boiler stack cover was replaced during June 2008 for a cost of \$3,329.

FY07 ----->

\*Staff reports replacing the foundation penetration sections of the HW heating supply/return piping to/from Coffin during Aug. 2006 for a cost of \$24,832.

\*Staff reports removing the old boilers, expanding the tanks, adding a fuel oil transfer pump and installing 3 Buderus boilers, model G615 (1x9 section, 2x12 section) and Riello dual-fuel burners (1xRLS-70, 2xRLS-100). One Webster SPM-65-1-DA duplex fuel transfer pump set, 1 Taco AC6 air separator, and 3 Taco CBX-600 expansion tanks. Project was complete during Nov. 2006 for a cost of \$242,710.

The Boiler House is a 1,260 square-foot, 1-story building.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction type is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed bearing on CMU walls and covered with membrane roofing.

*All costs in USD.*



The facility has an entrance at the side of the building. The exterior doors are hollow metal doors and frames with knob style locksets.

The exterior walls are brick veneer and CMU bearing walls with curtain wall type windows.

Common area finishes are mostly unfinished concrete floors. Ceiling finishes are exposed steel framing and Tectum decking. Wall finishes are unfinished CMU walls. Interior doors are hollow metal doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and a combination of ceramic wall tile and painted gypsum board. Ceilings are acoustical tile.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any heating or ventilation.

#### Boilers:

There are three boilers; one is the original 44 H. B. smith that is out of service, the other two boilers and H. B. smith 4500 installed in 1983 with preferred burners designed to burn multi-grade fuel oil. They are currently burning No. 2 oil stored in a 10,000 underground oil tank. There are pneumatic controls located in the boiler room.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, and other points of use. The hot water is provided from the hot water boiler with two base-mounted pumps serving the Coffin School and two pumps serving the Junior High School. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

The building does not have a sprinkler system. The building has an ABC type fire extinguisher.

#### Electrical Service and Distribution:

Power is supplied to the building by a pole mounted transformer. The service is run underground ground and terminates into a panelboard of unknown size.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

#### Lighting:

The basic building lighting fixtures consist of single-bulb incandescent fixtures. Exterior lighting consists of building mounted HID fixtures.

## REQUIREMENTS

*All costs in USD.*



## Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Aluminum Window Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	18,944
Boiler Room Piping: Fittings leaking.	D3022-Boiler Room Piping and Specialties	Functionality	1- Currently Critical	04/17/2005	5,954
Controls Part 1: Controls Require Minor Repair	D3020-Heat Generating Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	339
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	95
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	100
Emergency Lighting Part 1 - Egress Path Improperly Identified	-	Life Safety	1- Currently Critical	03/20/2011	2,339
Emergency Lighting Part 4 - Aged or Broken Single Head Battery Units	-	Life Safety	1- Currently Critical	03/20/2011	1,839
Lighting and Branch Wiring. Past useful life.	D5020-Lighting and Branch Wiring	Functionality	2- Potentially Critical	02/10/2005	5,761
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet Critical	03/20/2011	7,181
Wall Finishes: Past useful life in Toilet.	C3010-Wall Finishes	Appearance	1- Currently Critical	05/01/2005	240
<b>Total</b>					<b>45,648</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Boiler House

Asset Name: BH - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	2,040,305	Address 1	Columbia Avenue
Size	1,247,000 Each	Address 2	-
Year Constructed	1968	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	School District Owned	Historical Category	-
Floors	-	Construction Type	-
Type	Site Structures/Furnishings/Appurtenances	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	-
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-

All costs in USD.



Emergency Generator -

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports installing natural gas supply line for no cost in Aug. 2009. 360' of buried 2" from Columbia Av to the meter at BJHS & 200' from existing on campus meter at Coffin.

FY08 ----->

\*Staff reports installing 865' of buried 2" natural gas supply line from the boiler house to the rear of the bus garage and satellite office during Aug. 2007 for no cost.

FY07 ----->

\*Staff reports installing 12' of 7' chain-link fence with a gate around the new gas meter during Oct. 2006 for a cost of \$1,150.

\*Staff reports digging & repaving 35,000 SF on the access road entrance, a segment of the access road from the boiler house to Coffin, and the entire food service delivery area at the Coffin rear. Project was complete during June 2007 for a cost of \$31,805.

\*Staff reports installing 450' of buried 2" natural gas supply line during Aug. 2006 for no cost.

\*Staff reports adding safety/security lighting during Sept. 2006 for a cost of \$6,864.

FY06 ----->

\*Staff reports installing water service with a meter & enclosure for irrigating the BJHS athletic fields during June 2006 for a cost of \$5,766.

\*Staff reports digging up and repaving 23,125 SF of the access road around COF/BJHS traffic island & pave a new ADA parking slot with an approach (225 SF) in front of Coffin. Project was complete in April 2006 for a cost of \$20,395.

\*Staff reports installing a new paved walking path through the woods from Columbia Av to COF/BJHS during Nov. 2005. Total of 200'x6' was done at a cost of \$5,950.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick Bus Garage

Asset Name: BG - Garage, Offices, & Storage  
Asset Number: 1

## STATISTICS

FCI Cost:	14,020	FCI:	0.02
Total Requirements Cost :	14,020	RI:	0.02

Current Replacement Value	736,869	Address 1	Barrows Street
Size	8,292 SF	Address 2	-
Year Constructed	1955	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Transportation
Year of Last Addition	1,979	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	0
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	Yes	Security Cameras Used	No
Annual Maintenance Costs	23,260	Electricity Quantity 2009	28,000
Electricity Cost 2009	4,400	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	0
LP Cost 2009	0	Natural Gas Quantity 2009	457,000
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	7,800	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	15,300
Water Cost 2009	432	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.





Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	06-10 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	No

All costs in USD.



Emergency Generator No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO



BBG B Wing

Front view of B Wing.

## ASSET DESCRIPTION

### FY10 ----->

\*Staff reports adding weather strip to 3 exterior doors and 3 overhead doors in Dec. 2009 for \$6,343.

\*Staff reports replacing 19 florescent light fixtures & installing 4 occupancy sensors in Nov. 2009 for \$4,240.

\*Staff reports replacing the motor on the wash bay overhead door in Feb. 2010 for \$700.

\*Staff reports that the front & side doors in the driver's area were replaced with insulated fiberglass doors in Sept. 2009 for @1,217.

### FY09 ----->

\*Staff reports installing 3 electric eye/trip safety devices on 3 of the garage bay doors during Feb. 2009 for \$684.

\*Staff reports installing a snow divertor on the roof above the garage bay exterior door in Sept. 2008 for \$2,263.

\*Staff reports that the driver's area was replaced & 2 bathroom windows were replaced with operable thermal pane windows during Sept. 2008 for \$1,440.

### FY08 ----->

\*Staff reports that an exterior wall was removed (60 SF) in the Facility Director's office and replaced with 2 operable thermal-pane windows and 4 outlet plug molds during Aug 2007 for a total cost of \$4,657.

\*Staff reports installing amber strip door on the entry door to the garage bays during Aug. 2007 for a cost of \$970.

\*Staff reports installing gable vent louvers above the garage bays during Sept. 2007 for a cost of \$2,448.

*All costs in USD.*



\*Staff reports replacing the shingled roof with adhered EPDM over the garage bays (2,300 SF) during Aug. 2007 for a cost of \$15,475.

\*Staff reports converting the boiler to natural gas with a new gas train, burner, and outside cutout valve. Removed a 275 gallon oil tank and installed DDC controls all in Aug. 2007 for a total cost of \$18,885.

FY07 ----->

\*Staff reports removing, filling and insulating the old single pane windows in the rear of the building during Sept. 2006 for a cost of \$4,855.

### GARAGE BAYS

B Wing is a 2,000 square-foot, 1-story building, located on the West side of A Wing.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is framed with wood trusses and covered with an asphalt shingle roofing system.

The wing has the main entrance at the front or North side of the building with a direct connection to A wing. The front entrance has barrier free access. The exterior doors are hollow metal doors and frames with knob type lockset hardware.

The exterior walls are 12 inch painted CMU with no windows.

Common area finishes are exposed concrete floor. Ceiling finishes are painted gypsum board. Wall finishes are painted CMU.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements except for some lever locksets.

### Heating and Ventilation:

The wing does have air conditioning or ventilation. Heating for the building is provided by unit heaters. Controls are electric.

Boilers: There is a Weil-McLain Series 78 cast iron steam boiler installed approximately 1996. There are two 275 gallon oil tanks located in the boiler room. There is a Bell & Gossett heat exchanger to provide hot water to A Wing. Steam is provided to unit heaters in B Wing.

### Plumbing:

Domestic water is provided by the town. The only plumbing in this wing is for some floor drains.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

### Fire Suppression:

This wing does have an automatic sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

### Electrical Service and Distribution:

Power is supplied to the building by a pole-mounted transformer. The service is run above ground and terminates into a 200A, 120/208V, 1-Phase panelboard.

### Emergency Power:

The building does not have emergency power.

*All costs in USD.*



### Lighting:

The lighting fixtures consist of ceiling mounted 1x 4 fixtures. Exterior lighting consists of building and pole mounted HID fixtures.

### Fire Alarm:

The building is not equipped with a fire alarm.

### Telephone System:

There is no phone in this wing.

### STORAGE GARAGE

The Storage Garage is a 464 square-foot, 1-story building, located on the East side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood framed and covered with asphalt roof shingles.

The facility has an entrance at the front or North side of the building. The exterior door is a wood door and frame with knob type lockset.

The exterior walls are wood stud walls with vinyl siding and a wood doubl-hung window.

The building is unfinished on the inside

Compliance for accessibility using ADA guidelines reveals the building meets current requirements except for the lever lockset.

### Heating and Ventilation:

There is no heating or ventilation in the building.

### Plumbing:

There is no plumbing in the building.

### Fire Suppression:

This building does have an automatic sprinkler system.

### Electrical Service and Distribution:

The service is run above ground and terminates into a 20A, subpanelboard.

### Emergency Power:

The building does not have emergency power or emergency lights.

### Lighting:

The lights consist of ceiling mounted incandescent fixtures. Exterior lighting consists of a building mounted HID fixture.

### Fire Alarm:

*All costs in USD.*



The building does not have a fire alarm.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Branch Circuit and Power Systems Part 3 - Loose Cable above Ceiling	D5021-Branch Wiring Devices	Functionality	3- Necessary - Not Yet Critical	03/20/2011	7,885
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	673
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	703
Exterior Door Repair	B2030-Exterior Doors	Integrity	3- Necessary - Not Yet Critical	03/20/2011	532
Exterior Doors: Hardware non-ADA compliant. Storage Garage	B2030-Exterior Doors	Accessibility	1- Currently Critical	08/27/2004	308
Plumbing Fixture Part 1: Damaged or Nonfunctioning Utility Sink	-	Functionality	3- Necessary - Not Yet Critical	03/20/2011	1,063
				<b>Total</b>	<b>14,020</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick Bus Garage

Asset Name: BG - Satellite Office  
Asset Number: 2

## STATISTICS

FCI Cost:	1,807	FCI:	0.10
Total Requirements Cost :	1,807	RI:	0.10

Current Replacement Value	18,244	Address 1	Barrows Street
Size	252 SF	Address 2	-
Year Constructed	1989	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Maintenance
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	No	Fire Alarms	No

All costs in USD.



Emergency Generator No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO



BBG Satellite Office

Side view of Satellite Office.

## ASSET DESCRIPTION

FY08 ----->

\*Staff reports replacing the shingled roof with adhered EPDM (342 SF) during Aug. 2007 for a cost of \$2,301..

\*Staff reports installing a natural gas space heater during June 2008 for a cost of \$4,906.

The Satellite Office is a 252 square-foot, 1-story wing, located on the East side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood framed and covered with asphalt roof shingles.

The facility has an entrance at the front or North side of the building. The exterior doors are hollow metal doors and wood frames with knob type lockset.

The exterior walls are wood stud walls with vinyl siding and Andersen double hung windows.

Finishes are carpet with vinyl cove base. Ceiling and wall finishes painted gypsum board.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements except for the lever lockset.

### Heating and Ventilation:

This building does not have cooling or ventilation. Heat is provided by electric baseboard heat.

### Plumbing:

*All costs in USD.*





There is no plumbing in the building.

Fire Suppression:

This wing does have an automatic sprinkler system.

Electrical Service and Distribution:

The service is run above ground and terminates into a 20A, subpanelboard.

Emergency Power:

The building does not have emergency power or emergency lights.

Lighting:

The lights consist of ceiling mounted 1 x 4 fluorescent fixtures. Exterior lighting consists of a building mounted HID fixture.

Fire Alarm:

The building does not have a fire alarm.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Branch Circuit and Power Systems Part 3 - Loose Cable above Ceiling	D5021-Branch Wiring Devices	Functionality	3- Necessary - Not Yet Critical	03/20/2011	240
Exterior Door Repair	B2030-Exterior Doors	Integrity	3- Necessary - Not Yet Critical	03/20/2011	532
Exterior Doors: Hardware non-ADA compliant.	C1020-Interior Doors	Accessibility	1- Currently Critical	08/27/2004	308
Exterior Walls Clean	B2011-Exterior Wall Construction	Integrity	3- Necessary - Not Yet Critical	03/20/2011	687
Ventilation Systems Part 1: Inoperative Exhaust Fans	-	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	41
Total					1,808

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick Bus Garage

Asset Name: BG - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	343,612	Address 1	Barrows Street
Size	42,128 SF	Address 2	-
Year Constructed	1969	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	School District Owned	Historical Category	-
Floors	-	Construction Type	-
Type	Roads and Drives	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-
Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-

All costs in USD.



Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	-
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-
Emergency Generator	-		

All costs in USD.



## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO

## ASSET DESCRIPTION

FY09 ----->

\*Staff reports that 85' of recycled gaurdrail was installed along the fenceline with the playground during Aug. 2008 for \$1,276.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0



SAU: Brunswick School Department  
Facility: Brunswick High School

Asset Name: BHS - Field House  
Asset Number: 2

## STATISTICS

FCI Cost:	11,617	FCI:	0.03
Total Requirements Cost :	11,617	RI:	0.03

Current Replacement Value	361,966	Address 1	116 Maquoit Road
Size	4,500 SF	Address 2	-
Year Constructed	1998	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Multi-use
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	0
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	No	Security Cameras Used	No
Annual Maintenance Costs	0	Electricity Quantity 2009	40,000
Electricity Cost 2009	5,987	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	0
LP Cost 2009	0	Natural Gas Quantity 2009	101,683
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	1,734	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	0
Water Cost 2009	0	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	11-15 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	Yes

All costs in USD.



Emergency Generator

No

## Access Control Description

Locked when not in use.

## Emergency Pwr Other Systems

-

## PHOTO



BHS Field House 1

View of Field house from High School.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports installation of sensor controls on the natural gas unit in Dec. 2009 for \$824.

\*Staff reports replacing 7 florescent fixtures & 2 exposed incadescent pigtails in Nov. 2009 for \$842.

FY09 ----->

\*Staff reports installing advanced electric metering in Oct. 2008 for \$658.

FY08 ----->

\*Staff reports that the heater was converted to a natural gas heater. They also added an exterior cutout valve and removed a 500 gal LP tank during Aug. 2007 for a cost of \$1,025.

\*Staff reports extending the fiber optic network cable down to the field house during June 2008 for a cost of \$2,065.

The Field House is a 5,400 square-foot, 1-story building, located on the Southwest side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood trusses and covered with asphalt roofing shingles.

The facility has various entrances around the building. The exterior doors are a combination of hollow metal doors and frames with exit device hardware and overhead coiling doors.

*All costs in USD.*



The exterior walls are brick veneer with wood framed backup walls and no windows.

Work area finishes are exposed concrete floors. Ceiling finishes are painted gypsum board. Wall finishes are painted gypsum board. Interior doors are wood doors with lever type access hardware.

Concession and toilet area finishes are VCT with vinyl cove base. Ceiling and wall finishes are painted gypsum board. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. The building does not have any ventilation. Heating for the building is provided by gas fired space heaters in the Work area and electric baseboard located on the outside walls in the toilets and concession areas.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, sinks, and other points of use. The hot water is provided from a 40 gallon Reliance electric water heater. Restroom fixtures are vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

There is a water entrance and an irrigation system located in the building.

#### Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

The electrical service is run underground and terminates into a 400A, 277/480V, 3-Phase panelboard.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of 1 x 4 surface-mounted fixtures. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a fire alarm system.

#### Telephone System:

The building has 1 line into the building.

#### Other Systems:

The building has a security system.

*All costs in USD.*





## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Branch Circuit and Power Systems Part 3 - Loose Cable above Ceiling	D5021-Branch Wiring Devices	Functionality	3- Necessary - Not Yet Critical	03/20/2011	4,279
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	365
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/20/2011	381
Sanitary Waste Part 5: Public Sewer Back-Up	D2030-Sanitary Waste	Functionality	3- Necessary - Not Yet Critical	03/20/2011	2,998
Ventilation Systems Part 1: Inoperative Exhaust Fans	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	737
				<b>Total</b>	<b>11,616</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick High School

Asset Name: BHS - Main Building  
Asset Number: 1

## STATISTICS

FCI Cost:	223,579	FCI:	0.01
Total Requirements Cost :	223,579	RI:	0.01

Current Replacement Value	22,521,203	Address 1	116 Maquoit Road
Size	172,500 SF	Address 2	-
Year Constructed	1995	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	Harriman Associates
Ownership	-	Historical Category	None
Floors	2	Construction Type	-
Type	Building	Use	High School
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	0
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	1,062,900	Electricity Quantity 2009	1,339,500
Electricity Cost 2009	188,590	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	988
LP Cost 2009	1,663	Natural Gas Quantity 2009	6,835,800
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	119,185	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	124,000
Water Cost 2009	3,240	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-
Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-

All costs in USD.



Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	0
Emergency Pwr Life Safety Only	No	Sun Shades	No
Roofing Installed	11-15 Years	Door Transoms	0
Lead Survey	Yes	Lead SF	0
Solar Powered Hot Water	Yes	Waste Water Treatment Plant	No
Chiller Count	2	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	Yes
Emergency Generator	Yes		

All costs in USD.



## Access Control Description

-

## Emergency Pwr Other Systems

Phone system, campus radio (walkie-talkie) repeater, master clock/bell system, sewer pump station

## PHOTO



BHS A Wing

Side view of A Wing, 2- story classroom wing.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports adding weather strip to 34 exterior doors & 2 overhead doors. Also sealed the perimeters/lubed the dampers for 14 RTUs/fans in Dec. 2009 for \$22,727.

\*Staff reports installing Co2 demand controls on the the AHUs. (2) 5,000CFM in the fitness room, (3) 24,000 CFM in the gym, (11) 11,240CFM in the library, & (16) 8,825CFM in the cafeteria. Finished in Dec. 2009 for \$11,514. Also installed occupancy sensor controls on the AHUs in Dec. 2009 for another \$11,514. (5) 2,800CFM in the band room, (6) 2,000CFM in Tech 1, (7) 3,600CFM in the metal shop, & (8) 6,000CFM in the wood shop.

\*Staff reports that 150 florescent light fixtures were replaced. Also 102 metal halide light were replaced (12 in the stairwells, 6 in the fitness room, 44 in the gym, 14 in the cafeteria, 18 in the library, & 8 in the atrium. Also installed 160 occupancy sensors in Oct. 2009 for \$73,785.

\*Staff reports that a handheld eye wash unit was installed, along with the plumbing, for the Metal and Wood shops during Dec. 2009 for \$1,559.

\*Staff reports replacing the air compressor for the dry sprinkler system in the attic for \$2,670 in Jan. 2010.

\*Staff reports that new door closers were installed on both doors to the Tech 1 room in Dec. 2009 for \$450.

\*Staff reports replacing (2) 3'x3' FWG panels with interior fire door with fireglass in Feb. 2010 for \$870.

FY09 ----->

\*Staff reports replacing the failed shunt breaker in the wood shop during March 2009 for \$2,070.

\*Staff reports that emergency power was provided to the attic dry sprinkler system air compressor from the emergency panel in the boiler room during Oct 2008 for \$4,939.

\*Staff reports installing 750' of poplar chair rail in 10 classrooms during Aug. 2008 for a cost of \$5,276.

All costs in USD.



\*Staff reports installing advanced electric metering during Oct 2008 for \$251.

\*Staff reports installing 2 set of overpressure dampers in the gym ceiling to correct a design flaw during Aug. 2008 for a cost o \$46,776.

\*Staff reports installing a new DHW recirc system with 450' CU piping, 1/2 HP pump, and expansion tank during Aug. 2008 for a cost of \$15,559.

FY08 ----->

\*Staff reports that the emergency generator was converted from LP to natural gas during Aug. 2007 for a cost of \$4,939.

\*Staff reports that the 3 boilers were converted to natural gas. New gas trains, burners, outside cutout valve, and new & modified LP gas piping were also installed. The 1,000 gallon LP gas tank was removed. Project was complete during Aug. 2007 for a cost of \$30,304.

\*Staff reported that during Aug. 2007 864 SF of brick masonry was sealed in the courtyards over the doorway eaves for a cost of \$4,900.

\*Staff reports replacing the obsolete lighting control panels in the building during Apr. 2008 for a cost of \$28,660.

\*Staff reports that the display cases in the main lobby with replaced with niches for vending machines (per the fire marshal) during Apr 2008 for a cost of \$3,174.

\*Staff reports replacing the auto door opener on the front doors during June 2008 for a cost of \$1,733.

\*Staff reports replacing the gym water cooler during Feb. 2008 for a cost of \$1,411.

\*Staff reports replacing the lighting control board in teh Theater during Nov. 2007 for a cost of \$3,580.

\*Staff reports installing a dock leveler on the loading dock during Mar. 2008 for a cost of \$2,200.

\*Staff reports replacing 40 SF of wood gym floor next to the ext door, also sanded and refinished/repaint the rest of the floor during Aug. 2007 for \$24,990.

\*Staff reports replacing the carpet in the reception area with VCT & vinyl cove base (269 SF). The VCT was also renewed ing the custodial hall, home ec, classrooms, and library AV rooms (3,191 SF). Project was complete in Aug. 2007 for a cost of \$13,634.

FY07 ----->

\*Staff reports replacing 6 lower sashes on the classroom windows during Aug. 2006 for a total cost of \$1,847.

\*Staff reports replacing all suspensions and 1 curtain floor block in the theatre during Aug. 2006 for a cost of \$1,675.

\*Staff reports replacing the steel exterior door to the athletic storage area in Aug. 2006 for a cost of \$2,250.

FY06 ----->

\*Staff reports replacing the theater curtain and actuating mechanism during Sept. 2005 for a cost of \$8,635.

FY05 ----->

\*Staff reports replacing the bird netting system in the court yards during Apr 2005 for \$21,136.

\*Staff reports replacing the air compressor for the dry sprinkler system in the attic in Feb. 2005 for \$4,563.

\*Staff reports that all the stage curtains were replaced in Aug. 2004 for a cost of \$18,597.

\*STaff reports replacing the old phone system with a new VoIP digital phone system & ext in every room during Aug. 2004 for \$27,073.

*All costs in USD.*



## SOUTH WING

A Wing is a 70,507 square-foot, 2-story building, located on the Southeast side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The superstructure of the facility is steel framed with steel floor joists and concrete elevated slab. The roof is a combination of steel framed and covered with EPDM membrane roofing system and steel framed with wood roof trusses and asphalt roof shingles.

The facility has the main High School entrance at the front or East side of the building with corridors connecting to B and C wings. The front entrance has barrier free access. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with metal stud backup walls with aluminum-clad wood windows.

Common area finishes are carpet and linoleum flooring with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU, gypsum board, and ceramic wall tile. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

### Heating and Ventilation:

The wing does have air conditioning in the Administration and Computer Labs. Heating and ventilation for the building is provided by air handling units and fin tube heating located on the outside walls. Controls are pneumatic for base board radiation and Honeywell digital for the AHUs.

### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from a Smith series 19-7, Power Flame cast iron hot water boiler located in the Boiler room of D wing. Restroom fixtures are vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to a waste water lift station and then pumped to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

### Fire Suppression:

This wing does have an automatic sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

### Electrical Service and Distribution:

Power is supplied to the building by a transformer located on an exterior pad. The service is run underground and terminates into a 1200A, 277/480V, 3-Phase panelboard located in D Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

### Emergency Power:

The building has an Onan 75 KW LP fired emergency generator with a Genset automatic transfer switch. All emergency lighting is accomplished with emergency battery units located throughout the facility.

### Lighting:

The basic building lighting fixtures consist of a combination of 2 x 4 or 2 x 2 lay-in fixtures and pendant hung florescent fixtures in most classrooms. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

*All costs in USD.*



## Fire Alarm:

The building is equipped with a Zans 400 Gamewell-Simplex Grinnell Identifire Network System 2 with outside connection.

## Intercom System:

The building has a Rualand Telcenter, telephone-communications system with digital clock system.

## Other Systems:

The building has an internet and cable TV systems throughout.

The building has a security system by Fire Burglary Instruments, Inc. XL-4 with outside connection.

## NORTH WING

B Wing is a 38,278 square-foot, 2-story building, located on the Northeast side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The superstructure of the facility is steel framed with steel floor joists and concrete elevated slab. The roof is a combination of steel framed and covered with EPDM membrane roofing system and steel framed with wood roof trusses and asphalt roof shingles.

The facility has the corridor connections to A and D wings. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with metal stud backup walls with aluminum-clad wood windows.

Common area finishes are carpet and linoleum flooring with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU, gypsum board, and ceramic wall tile. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

## Heating and Ventilation:

The wing does not have air conditioning. Heating and ventilation for the building is provided by air handling units and fin tube heating located on the outside walls. Controls are pneumatic for base board radiation and Honeywell digital for the AHUs.

## Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from a Smith series 19-7, Power Flame cast iron hot water boiler located in the Boiler room of D wing. Restroom fixtures are vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to a waste water lift station and then pumped to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

## Fire Suppression:

This wing does have an automatic sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

## Electrical Service and Distribution:

*All costs in USD.*



Power is supplied to the building by a transformer located on an exterior pad. The service is run underground and terminates into a 1200A, 277/480V, 3-Phase panelboard located in D Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building has an Onan 75 KW LP fired emergency generator with a Genset automatic transfer switch. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of a combination of 2 x 4 or 2 x 2 lay-in fixtures and pendant hung florescent fixtures in most classrooms. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Zans 400 Gamewell-Simplex Grinnell Identifire Network System 2 with outside connection.

#### Intercom System:

The building has a Rualand Telcenter, telephone-communications system with digital clock system.

#### Other Systems:

The building has an internet and cable TV systems throughout.

The building has a security system by Fire Burglary Instruments, Inc. XL-4 with outside connection.

#### CAF/CROOKER/GYM

C Wing is a 48,435 square-foot, 1-story wing, located on the Southwest side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The superstructure of the mechanical mezanine is steel framed with steel floor joists and concrete elevated slab. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has the rear entrance at the back or West side of the building with corridors connecting to A and D wings. The rear entrance has barrier free access. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU and metal stud backup walls with Kalwall panels, and aluminum storefront windows.

Common area finishes are VCT flooring with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU, gypsum board, and ceramic wall tile. Interior doors are wood doors with lever type access hardware.

Gymnasium area finishes are wood gym flooring with wood base. Ceiling finishes are painted exposed ceiling structure. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with lever type access hardware.

Locker Room area finishes are ceramic tile flooring with ceramic cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU and ceramic wall tile. Interior doors are wood doors with lever type access hardware.

Auditorium area finishes are carpet flooring with vinyl cove base. Ceiling finishes are painted gypsum board. Wall finishes are painted gypsum board. Interior doors are wood doors with lever type access hardware.

*All costs in USD.*





Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

### Heating and Ventilation:

The wing does have air conditioning in the Auditorium. Heating and ventilation for the building is provided by air handling units and fin tube heating located on the outside walls. Controls are pneumatic for base board radiation and Honeywell digital for the AHUs.

### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from a Smith series 19-7, Power Flame cast iron hot water boiler located in the Boiler room of D wing. Restroom fixtures are vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to a waste water lift station and then pumped to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

### Fire Suppression:

This wing does have an automatic sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

### Electrical Service and Distribution:

Power is supplied to the building by a transformer located on an exterior pad. The service is run underground and terminates into a 1200A, 277/480V, 3-Phase panelboard located in D Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

### Emergency Power:

The building has an Onan 75 KW LP fired emergency generator with a Genset automatic transfer switch. All emergency lighting is accomplished with emergency battery units located throughout the facility.

### Lighting:

The basic building lighting fixtures consist of a combination of 2 x 4 or 2 x 2 lay-in fixtures and pendant hung HID fixtures in the Gym. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

### Fire Alarm:

The building is equipped with a Zans 400 Gamewell-Simplex Grinnell Indentifire Network System 2 with outside connection.

### Intercom System:

The building has a Rualand Telcenter, telephone-communications system with digital clock system.

### Other Systems:

The building has an internet and cable TV systems throughout.

The building has a security system by Fire Burglary Instruments, Inc. XL-4 with outside connection.

### BOILER//KITCHEN/TECH ED

D Wing is a 15,280 square-foot, 2-story building, located on the Southeast side of the complex.

*All costs in USD.*



Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has an entrance at the back or Northwest side of the building with corridors connecting to B and C wings. The front entrance has barrier free access. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with metal CMU backup walls with aluminum-clad wood windows.

Common area finishes are VCT flooring with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU, gypsum board, and ceramic wall tile. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The wing does not have air conditioning. Heating and ventilation for the building is provided by air handling units for the Cafeteria and fin tube heating located on the outside walls. Ceiling mounted Unit heaters provide heat for the Industrial Arts areas. Controls are pneumatic for base board radiation and Honeywell digital for the AHUs.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from a Smith series 19-7, Power Flame cast iron hot water boiler located in the Boiler room of D wing. Restroom fixtures are vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to a waste water lift station and then pumped to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The heating piping is insulated.

#### Fire Suppression:

This wing does have an automatic sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located on an exterior pad. The service is run underground and terminates into a 1200A, 277/480V, 3-Phase panelboard located in D Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building has an Onan 75 KW LP fired emergency generator with a Genset automatic transfer switch. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of a combination of 2 x 4 or 2 x 2 lay-in fixtures and pendant hung florescent fixtures in the Arts areas. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Zanss 400 Gamewell-Simplex Grinnell Identifire Network System 2 with outside connection.

*All costs in USD.*



## Intercom System:

The building has a Rualand Telcenter, telephone-communications system with digital clock system.

## Other Systems:

The building has an internet and cable TV systems throughout.

The building has a security system by Fire Burglary Instruments, Inc. XL-4 with outside connection.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Boilers/Furnaces: Repair Natural Gas Boiler	D3020-Heat Generating Systems	Functionality	1- Currently Critical	03/21/2011	9,091
			3- Necessary - Not Yet		
Carpet Replace	C3020-Floor Finishes	Integrity	Critical	03/21/2011	146,697
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet		
			Critical	03/21/2011	2,856
Ductwork and Terminal (End) Devices Part 3: Dirty Ductwork	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet		
			Critical	03/21/2011	15,710
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet		
			Critical	03/21/2011	14,002
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet		
			Critical	03/21/2011	14,616
Exterior Walls Clean	B2011-Exterior Wall Construction	Integrity	3- Necessary - Not Yet		
			Critical	03/21/2011	429
Exterior Walls Paint	B2011-Exterior Wall Construction	Integrity	3- Necessary - Not Yet		
			Critical	03/21/2011	549
Interior Door Repair	C1020-Interior Doors	Integrity	1- Currently Critical	03/21/2011	5,863
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet		
			Critical	03/21/2011	7,792
Sanitary Waste Part 5: Public Sewer Back-Up	D2030-Sanitary Waste	Functionality	3- Necessary - Not Yet		
			Critical	03/21/2011	2,998
Vinyl Molded Treads & Risers Replace	-	Integrity	2- Potentially Critical	03/21/2011	2,976
<b>Total</b>					<b>223,579</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick High School

Asset Name: BHS - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	9,178,207	Address 1	116 Maquoit Road
Size	1,028,455 Each	Address 2	-
Year Constructed	1995	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	Harriman Associates
Ownership	-	Historical Category	-
Floors	-	Construction Type	-
Type	Site Structures/Furnishings/Appurtenances	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	-
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-

All costs in USD.



Emergency Generator -

## Access Control Description

-

Emergency Pwr Other Systems

-

## PHOTO



BHS Baseball Field

View of the backstop and dugouts at the Baseball Field.

## ASSET DESCRIPTION

FY07 ----->

\*Staff reports that 3,000' of buried 2" natural gas line was installed during Aug. 2006.

\*Staff reports renewing the ravine side with anchored mesh-wrapped rip-rap (200'+ length x 31" height). Also extended SD ppg by 30' externally over rip-rap, down ravine side after multiple silt percolations/washouts. Project was complete during Aug. 2006 for a cost of \$102,964.

\*Staff reports lowering the pavement & SD basin at the loading dock in order to fix a design flaw. Project was complete in June of 2007 for a cost of \$10,810.

FY06 ----->

\*Staff reports replacing 2 ground mount illumination lamps to the school sign during April 2006 for a cost of \$2,485.

\*Staff reports installing a chain link backstop fence & gates for the baseball (80') & softball field (40') during Sept. 2005 for a cost of \$3,370.

FY05 ----->

\*Staff reports adding 41,150 SF of paving & 110 additional parking spots to the parking lot during Apr 2005 for \$39,100.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick Jr High School

Asset Name: BJHS - 100/200 Wings  
Asset Number: 1

## STATISTICS

FCI Cost:	428,868	FCI:	0.09
Total Requirements Cost :	428,868	RI:	0.09

Current Replacement Value	4,967,032	Address 1	65 Columbia Avenue
Size	27,910 SF	Address 2	-
Year Constructed	1983	City	Brunswick
Year Renovated	1983	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	Harriman Associates
Ownership	-	Historical Category	None
Floors	2	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Middle School
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	4
Owned/Leased Portable Classrooms	0	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	591,600	Electricity Quantity 2009	428,400
Electricity Cost 2009	58,842	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	3,434
LP Cost 2009	6,032	Natural Gas Quantity 2009	4,722,500
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	80,600	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	85,000
Water Cost 2009	2,362	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	3	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	Yes

All costs in USD.





Emergency Generator No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO



B Wing

Front Elevation of B Wing.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports renovation of Rm 101 suite. Demo'd 7'x20.5' folding wall/door, 13' fixed partition, and 33.5' NLB wall, tub & shower. Finished in Nov. 2009 for a total of \$58,487. Installed new:

118' NLB wall, steel studs & 5/8" drywall,

(6) 36" solid core doors with type 2 lever locksets,

(12) duplex 110 outlets,

(2) 3'x5' one way mirror windows,

280 SF of carpet tile,

63 SF quarry tile bathroom flooring,

3'x3' ADA compliant shower stall.

\*Staff reports adding weather strip & brushes to 5 of the exterior doors and sealed perimeters/lube the dampers for 13 RTUs/fans in Nov 2009 for \$4,479.

\*Staff reports replacing 12 floor light fixtures & installing 27 occ sensors in Nov. 2009 for \$5,537.

\*Staff reports replacing the carpet in Rm 107 with VCT (800 SF) & vinyl cove base in Feb. 2010 for \$2,483.

FY08 ----->

\*Staff reports another IAQ upgrade project during Aug. 2007. Total project cost was \$115,679 and included:

Demo 4 HW heating circ pumps and installing 2 Taco KV2508 (7.5 HP) HW heating circ pumps with VFDs and 1 Taco 1635 (.75 HP) inline DHW circ pump. Also added 1 Gould's sump pump.

*All costs in USD.*



3 new FCU cab heaters were installed in the main lobby with 16' of ducting. 3 McQuay FTS series FCU heaters were installed (1) 985 CFM (2) 240 CFM in the main lobby. 1 is ceiling mount by the front door, 1 is wall mount next to the elevator, and the other is ceiling mount near the door to 300-wing.

Networked all equipment with new DDC controls.

\*Staff reports renovating 210 SF of adhered EPDM roof and 59 ft of edge flashing for rear stairwell vestibule. Project has a 15 year life extension and was completed during Aug. 2007 for a cost of \$3,335.

\*Staff reports replacing 2 of the water coolers with new ones in Aug. 2007 for a cost of \$3,540.

FY07 ----->

\* Staff reports a major IAQ upgrade project during Aug. 2006 for a total cost of \$466,000. Project included:

Demo 16-TAB units & 12- unit ventilators.

Added 4-RenewAire 450RT (380 CFM), 1- RenewAire HE3XRT (1,690 CFM), & 3-RenewAire HE1XRT (750 CFM) roof top heat recovery units.

Installed 4-Herman Nelson AVS6 series floor (avg 150 CFM) & 11-Herman Nelson AHFS series ceiling (1250 CFM / 2000 CFM) unit ventilators and 3-McQuay TSF series (650 CFM) floor FCUs.

Added 3-Fujitsu ASU series ductless split AC units.

Networked all equipment with new DDC controls.

\*Staff reports replacing 33 ft of single-pane window wall with double pane, low E window wall with alum. framing on the 2nd floor stairwell during Aug. 2006 for a cost of \$18,695.

\*Staff reports renovating 6,012 SF of adhered EPDM roof and 342 ft of edge flashing for all but the Library extension. Project has a 15 year life extension and was completed during Aug. 2006 for a cost of \$12,940.

FY06 ----->

\*Staff reports replacing all door hardware with Type 1 ADA lever locksets during Sept. 2005 for a cost of \$11,195.

\*Staff reports retiling 2 of the student restroom floors with quarry tile during Sept. 2005 for a total cost of \$4,341. Total of 298 SF was done.

\*Staff reports replacing the partitions in 4 of the student restrooms on the 1st and 2nd floor during a Jan. 2006 project for a cost of \$10,133.

\*Staff reports renovating 9,604 SF of adhered EPDM roof and 508' of edge flashing for all but the Library extension. Project has a 15 year life extension and was completed during Sept. 2005 for a cost of \$30,849.

FY05 ----->

\*Staff reports replacing the oven in the Func Skills room 101 in Aug. 2004 for \$875.

\*Staff reports replacing the old phone system with a Voip digital phone system with extensions in every room during Aug. 2004 for \$17,177.

100/200 WING

B Wing is a 27,910 square-foot, 2-story building, located on the South side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The superstructure of the facility is CMU bearing walls at the exterior walls, steel framed with steel floor joists and concrete elevated slab. The roof is steel framed and covered with EPDM membrane roofing system.

*All costs in USD.*



The facility has an exit at the South end of the building with corridors connecting to A, C, and I wings. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with metal stud backup walls with aluminum casement windows.

Common area finishes are a combination of vinyl asbestos floor tile and carpet with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are painted gypsum board. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and a combination of painted CMU and gypsum board. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building has air conditioning in the computer rooms. Heating and ventilation for the building is provided by unit ventilators located on the outside walls. There is fin tube radiant heat in some locations. Controls are the original pneumatic. Wall mounted air conditioning units are provided in the Computer room.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does have a wet pipe fire suppression system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of 2 x 4 or 2 x 2 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

*All costs in USD.*



The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

#### 100/200 A WING SE/LIB

A Wing is an 11,570 square-foot, 2-story building, located on the Southeast side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade at first floor. The superstructure of the facility is CMU bearing walls at the exterior walls, steel framed with steel floor joists and concrete elevated slab. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has an entrance at the front of the building with corridors connecting to B and I wings. The front entrance has barrier free access. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with most of the original custom wood curtain walls and wood casement windows.

Common area finishes are mostly vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building has air conditioning in the computer rooms. Heating and ventilation for the building is provided by unit ventilators located on the outside walls. There is fin tube radiant heat in some locations. An air handling unit is installed for the Library. Controls are the original pneumatic.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

*All costs in USD.*



## Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

## Lighting:

The basic building lighting fixtures consist of 2 x 4 or 2 x 2 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

## Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

## Intercom System:

The building has a 2-way Dukane system.

## Other Systems:

The building has wireless internet throughout.

The building has a security system.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Branch Circuit and Power Systems Part 3 - Loose Cable above Ceiling	D5021-Branch Wiring Devices	Functionality	3- Necessary - Not Yet Critical	03/21/2011	26,539
Carpet Replace	C3020-Floor Finishes	Integrity	2- Potentially Critical	03/21/2011	55,034
Controls: Pneumatic controls past useful life. 100/200 A Wing SE/LIB	D3060-Controls and Instrumentation	Energy	1- Currently Critical	04/07/2005	18,476
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/21/2011	2,856
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/21/2011	2,266
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/21/2011	2,365
Emergency Lights: Do not meet code. 100/200 A Wing SE/LIB	-	Life Safety	1- Currently Critical	02/02/2005	1,539
Exterior Walls Clean	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	172
Fire Alarm: Upgrade existing system.	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	33,682

All costs in USD.



## Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Fire Alarm: Upgrade existing system. 100/200 A Wing SE/LIB	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	13,936
Hazardous Materials: Asbestos floor tile.	F2020-Hazardous Components Abatement	Asbestos	1- Currently Critical	01/07/2005	26,926
Interior Construction: No ADA toilets.	C10-Interior Construction	Accessibility	1- Currently Critical	03/06/2005	22,047
Metal Ceiling Replace	-	Integrity	2- Potentially Critical	03/21/2011	75,398
Plumbing Fixtures: Fountains non-ADA compliant.	D2010-Plumbing Fixtures	Accessibility	1- Currently Critical	08/27/2004	2,436
Sprinklers: Do not exist. 100/200 A Wing SE/LIB	-	Building Code	1- Currently Critical	01/04/2005	73,734
Stairs: Handrails do not meet code.	C20-Stairs	Building Code	1- Currently Critical	08/27/2004	15,815
Steel Passage Replace	B2030-Exterior Doors	Integrity	1- Currently Critical	03/21/2011	3,697
Vinyl Molded Treads & Risers Replace	-	Integrity	2- Potentially Critical	03/21/2011	9,920
Wood Exterior Trim Require Paint	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	519
Wood Window Replace	B2020-Exterior Windows	Integrity	1- Currently Critical	03/21/2011	41,511
<b>Total</b>					<b>428,868</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Brunswick Jr High School

Asset Name: BJHS - 300/400 Wings  
Asset Number: 2

## STATISTICS

FCI Cost:	1,778,597	FCI:	0.23
Total Requirements Cost :	1,778,597	RI:	0.23

Current Replacement Value	7,710,966	Address 1	65 Columbia Avenue
Size	59,127 SF	Address 2	-
Year Constructed	1966	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Middle School
Year of Last Addition	-	State Eligible	-
National Eligible	-	State Register	-
National Register	-	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	-	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	24
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	1	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	Yes

All costs in USD.





Emergency Generator No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO



C Wing

South elevation of C Wing.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports replacing the evaporator fan motors in the walk in cooler with brushless DC and installed CoolTrol control system in Aug. 2009 for \$7,778.

\*Staff reports adding new weather strip/brushes to 30 exterior doors and sealing/lube perimeters and dampers to 14 RTUs in Nov. 2009 for \$10,950.

\*Staff reports converting the LP kitchen equipment to natural gas and replacing the LP domestic HWH with Munchkin 399VWHPS (natural gas) in Nov. 2009 for \$31,305.

\*Staff reports replacing 84 floor lighting fixtures & 20 metal halide lights in the gym with floor lights. Also demo'd 5 additional metal halides in the gym and installed 28 occ sensors all during Nov. 2009 for \$14,462.

\*Staff reports an IAQ upgrade project completed in Aug. 2009 for a total of \$386,250. Project demo'd 5 unit ventilators, 4 FCS, various diam ducting, and the old shop dust collectio system. Installed new:

1 rooftop RenewAire EV450RT (450 CFM) HRU in the Rm 408 suite,

1 rooftop RenewAire HE2XRT (750 CFM) HRU for band room/music office,

1 rooftop RenewAire HE4XRT (1,500 CFM) HRU for art/home ex room,

3 sterling HS series ceiling FCUs,

7 sterling FS series floor cabinet heaters,

1 sterling RC series ceiling cabinet heaters,

3 sterling C series ceiling cabinet heaters,

1 Trane 5-ton rooftop AC unit w/ assoc heating coil,

1 Mitsubishi MS/MU-A09WA 9,500 BTU/hr split AC unit,

*All costs in USD.*



various diam ducting,

all new equipment was networked to DDC controls.

\*Staff reports replacing 4 gym lobby doors & the window wall with new alum frame doors & 24' window wall window wall. All are low-E thermal pane glass. Project complete in Aug. 2009 for \$19,039.

FY09 ----->

\*Staff reports that a dedicated circuit for the additional copie in the teacher's workroom was installed during Feb. 2009 for a cost of \$1,102.

\*Staff reports installing a framed 25' seperator wall 7' high in the old shop for ESL niche during Aug. 2008 for a cost of \$2,631.

\*Staff reports installing an advanced electric meter during Oct. 2008 for \$658.

\*Staff reports relocating & replacing the door on the custodian workroom & remodeling the electrical during Aug. 2008 for \$5,135.

\*Staff reports replacing the panic hardware on 3 of the exterior doors with key-lockable hardware during Nov. 2008 for a cost of \$1,782.

\*Staff reports replacing the HWH in room 408 in Nov. 2008 fo \$702.

\*Staff reports removing the paint booth and replacing 2 incadescent light fixtures with newer florescent lights in Aug. 2008 for \$1,154.

\*Staff reports replacing the DHW circ pump during Sept. 2008 for a cost of \$1,426.

FY08 ----->

\*Staff report an IAQ upgrade during Aug 2007 for a total cost of \$295,230. Project included:

Demo of 7 unit ventilators, 1 make-up AHU, and 161' of various diam. ducting.

Installed new:

1 RenewAire HE4X900V (2,850 CFM) HRU in 300-wing Mech room

1 RenewAire 2X900RT (850 CFM) rooftop HRU

6 Herman Nelson AVS series floor unit ventilators (1,500 CFM)

1 McQuay CHF series (725 CFM) floor FCU

1 Sanyo 18KLS72 inverter split AC unit

339' various diameter ducting

All new equipment was networked through DDC controls.

\*Staff reports that the gym ceiling fan was replaced during Nov. 2007 for a cost of \$1,335.

\*Staff reports that the carpet in the Admin hallway was replaced with J&J carpet tile (880SF) and vinyl cove base. The cafeteria lobby and gym hallway had new VCT & vinyl cove base installed as well. Project was complete in Aug. 2007 for a cost of \$7,314.

\*Staff reports creating an 86 SF storage room from a section of the boys locker room showers. A new 8 ft sealed masonry wall was added & a door to the gym. Project was complete during Aug. 2007 for a cost of \$6,630.

\*Staff reports during Oct 2007 the outlets & wiring for the stage lighting was all renewed for a cost of \$866.

\*Staff reports replacing all stage curtains during Aug. 2007 for a cost of \$13,005.

*All costs in USD.*



\*Staff reports renovating 211 SF of adhered EPDM roof and 78' of edge flashing for all classrooms and the gym side wings. Project has a 15 year life extension and was completed during Aug. 2007 for a cost of \$3,335.

\*Staff reports replacing the water cooler in the gym and in the 300 wing with new ones in Aug. 2007 for a cost of \$3,540.

FY07 ----->

\*Staff reports replacing the DHW recirc pump/motor in Mar. 2007 for a cost of \$1,509.

\*Staff reports replacing 2 of the wash fountains in the faculty restroom with 3 ft diameter, semi-circle Bradley wash fountains during Sept. 2006 for a cost of \$10,485.

\*Staff reports creating an 87 SF storage room from a section of the girls locker room showers. A 27 ft framed wall was added & a door to the gym. Project was complete during Aug. 2006 for a cost of \$6,461.

\*Staff reports repainting all exterior wood fascia trim for the courtyard and bus canopy - 551 ft total - during Aug. 2006 for a total cost of \$5,410.

\*Staff reports repainting the stage floor, ceiling & walls during Aug. 2006 for a cost of \$2,580.

\*Staff reports installing 6-32' 6x9 steel I beams in the stage ceiling with new battens & suspensions for the curtains and lights during Aug. 2006 for a cost of \$18,696.

FY06 ----->

\*Staff reports installing a 24'x7' wall & door in room 308 during Sept. 2005 for a cost of \$2,408.

\*Staff reports replacing the old shop exterior door with an aluminum door with low E glass & sidelights during April 2006 for a cost of \$3,395.

\*Staff reports replacing all door hardware with Type 1 ADA lever hardware during Sept. 2005 for a total cost of \$22,390.

\*Staff reports retiling 2 faculty restroom floors during Sept. 2005 for a total cost of \$5,492. Total of 377 SF.

\*Staff reports replacing all the partitions in 2 of the faculty restrooms during Jan. 2006 for a cost of \$2,027.

\*Staff reports replacing the fire alarm system dialer during a Sept. 2005 for a total cost of \$998.

\*Staff reports renovating 1,915 SF of adhered EPDM roof and 180' of edge flashing for the Kitchen and Cafeteria sections. Project has a 15 year life extension and was completed during Sept. 2005 for a cost of \$6,151.

\*Staff reports replacing 192' of single pane window wall with double-pane, low E window wall with aluminum framed windows in the offices, room 401 and 408A for a total project cost of \$44,185. Project complete in Sept. 2005

FY05 ----->

\*Staff reports replacing the overhead fan/heater unit in the gym in March 2005 for \$1,222.

\*Staff reports installing new fire-rated doors & framing for rooms 303, 305, & 307. Also replaced the curtains during Aug. 2004 for \$3,578.

\*Staff reports renovating 37,032 SF of EPDM roof and 1,603' of edge flashing for the Cafe & gym, which extended the roof life 15 years. Project done in Aug. 2004 for \$53,604.

\*Staff reports replacing/rewiring 5 duplex outlets in the new window framing for Rm 403 during Aug 2004 for \$1,355.

\*Staff reports replacing 64' plus 40' of single pane window wall for Rm 403 & Cafe. with 2pane low-E window wall & alum. framing, plus 1 alum. ext door with low-E also. Project done in Aug. 2004 for \$29,600.

*All costs in USD.*



\*Staff reports replacing the old phone system with a new VoIP digital phones system with extensions to each room in Aug. 2004 for \$17,177.

### 300 WING

C Wing is an 11,508 square-foot, 1-story building, located on the Southwest side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has exits at the South side of the building with corridors connecting to B, I, and E wings. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with aluminum curtain wall windows.

Common area finishes are a combination of vinyl asbestos floor tile and carpet with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and a combination of painted CMU and gypsum board. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by unit ventilators located on the outside walls. There is fin tube radiant heat in the Bathrooms. Air handling unit are installed in 3 Classrooms. Controls are the original pneumatic.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

*All costs in USD.*



The basic building lighting fixtures consist of 2 x 4 or 2 x 2 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

#### 300A WING (OPEN)

D Wing is a 4,280 square-foot, 1-story building, located on the North side of C Wing.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood framed and covered with EPDM membrane roofing system.

The facility has an exit at the North of the building with corridors connecting to C wing. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with most of the original custom wood curtain walls and wood casement windows.

Common area finishes are carpet with vinyl cove base. Ceiling finishes exposed wood framing and Tectum decking. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with knob type access hardware.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by an air handling unit. Controls are the original pneumatic.

#### Plumbing:

There is no plumbing in this wing.

#### Fire Suppression:

*All costs in USD.*



This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground vault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of 1 x 4 pendant fixtures. Exterior lighting consists of building mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

#### 300B Wing (TE/CFS/ART)

E Wing is a 9,290 square-foot, 1-story building, located on the West side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has exits at the side and rear of the building with corridors connecting to C wing. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with aluminum storefront with hopper style windows.

Common area finishes are mostly vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with knob type access hardware.

*All costs in USD.*



Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by unit heaters and ventilators located on the outside walls. There is fin tube radiant heat in some locations. Controls are the original pneumatic.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of 2 x 4 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

*All costs in USD.*



## 400 WING

I Wing is an 11,876 square-foot, 1-story building, located in the center of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has an entrance at the front and rear of the building with corridors connecting to most other wings. The front entrance has barrier free access. The exterior doors are a combination of aluminum hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with most of the original custom wood curtain walls and wood casement windows.

Common area finishes are a combination of vinyl asbestos floor tile and carpet with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are a combination of painted CMU and gypsum board. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

### Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by unit ventilators located on the outside walls. There is fin tube radiant heat in some locations. Controls are the original pneumatic.

### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

### Fire Suppression:

This wing does not have a fire sprinkler system except in the corridors. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in this wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

### Lighting:

The basic building lighting fixtures consist of 2 x 4 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

### Fire Alarm:

*All costs in USD.*





The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in this wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

#### 400A WING (CAF)

F Wing is a 4,532 square-foot, 1-story building, located on the North side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The wing is surrounded by wings G and I with no exterior doors.

Common area finishes are vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are painted CMU walls. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by fin tube radiation. Controls are the original pneumatic.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all Kitchen equipment. The hot water is provided from the Boiler House.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

2/3 of this wing does have a wet pipe fire suppression system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

*All costs in USD.*



Power is supplied to the building by a transformer located in an underground vault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of 2 x 4 or 2 x 2 lay-in fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

The building has an Executone system.

#### Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

#### 400B WING (PE/CAF EXT)

H Wing is a 6,467 square-foot, 1-story building, located on the North side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The facility has exits at the North of the building with corridors connecting to G and I wings. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with most of the original custom wood curtain walls and wood casement windows.

Common area finishes are mostly exposed concrete with vinyl cove base. Ceiling finishes are painted exposed structure. Wall finishes are painted CMU walls. Interior doors are wood doors with lever type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by unit ventilators located in the Dining Room and Small Gym. There is fin tube radiant heat in the Locker rooms. Controls are the original pneumatic.

*All costs in USD.*



## Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. A hot water boiler provides water for the Locker rooms. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

## Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

## Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground vault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

## Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

## Lighting:

The basic building lighting fixtures consist of a combination of 1 x 4 pendant and 2 x 4 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

## Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

## Intercom System:

The building has a 2-way Dukane system.

## Telephone System:

The building has an Executone system.

## Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

## 400C Wing (GYM)

G Wing is an 11,174 square-foot, 1-story building, located on the North side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

*All costs in USD.*



The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel framed and covered with EPDM membrane roofing system.

The wing is surrounded by wings F, H, and I with no exterior doors.

The exterior walls are brick veneer with CMU backup walls with aluminum Kalwall windows.

Common area finishes are wood gym floor with base. Ceiling finishes are painted exposed structure. Wall finishes are painted CMU walls. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by 4 unit heaters located at the ceiling. Controls are the original pneumatic.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does have a wet pipe fire suppression system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground vault. The service is run underground and terminates into a 208V, 600A, 3-Phase panelboard located in I Wing. This panel distributes power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility.

#### Lighting:

The basic building lighting fixtures consist of pendant-mounted HID fixtures. Florescent fixture are located in the toilets.

#### Fire Alarm:

The building is equipped with a Simplex 4005, 8-zone fire alarm system, with digital read-out, located in I Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Telephone System:

*All costs in USD.*



The building has an Executone system.

Other Systems:

The building has wireless internet throughout.

The building has CATV throughout.

The building has a security system.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Brick or Brick Veneer Repoint	-	Integrity	2- Potentially Critical	03/21/2011	3,295
			3- Necessary - Not Yet Critical		
Carpet Replace	C3020-Floor Finishes	Integrity	Critical	03/21/2011	66,826
Controls Part 1: Controls Require Minor Repair	D3040-Distribution Systems	Functionality	2- Potentially Critical	03/21/2011	17,064
Controls: Pneumatic controls past useful life. 400A Wing (Caf)	D3060-Controls and Instrumentation	Energy	1- Currently Critical	04/07/2005	7,187
Controls: Pneumatic controls past useful life. 400B Wing (PE/Caf Ext)	D3060-Controls and Instrumentation	Energy	1- Currently Critical	04/07/2005	10,267
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/21/2011	2,856
Ductwork and Terminal (End) Devices Part 3: Dirty Ductwork	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet Critical	03/21/2011	5,385
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	3- Necessary - Not Yet Critical	03/21/2011	4,799
Emergency Lighting Part 4 - Aged or Broken Dual Head Battery Units	-	Life Safety	3- Necessary - Not Yet Critical	03/21/2011	1,839
Exterior Walls Clean	-	Integrity	2- Potentially Critical	03/21/2011	1,030
Exterior Windows: Past Useful Life 400 Wing	B2020-Exterior Windows	Integrity	1- Currently Critical	09/08/2004	44,936
Exterior Windows: Past Useful Life. 400A Wing (Caf)	B2020-Exterior Windows	Integrity	1- Currently Critical	09/08/2004	27,472
Fire Alarm: Upgrade existing system. 300 Wing	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	13,876
Fire Alarm: Upgrade existing system. 300A Wing (Open)	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	5,159

All costs in USD.



Requirement Name	Prime System	Category	Priority	Action Date	Cost
Fire Alarm: Upgrade existing system. 300B Wing (TE/CFS/ART)	E10-Equipment	Building Code	1- Currently Critical	01/04/2005	11,208
Fire Alarm: Upgrade existing system. 400 Wing	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	14,351
Fire Alarm: Upgrade existing system. 400A Wing (Caf)	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	5,456
Fire Alarm: Upgrade existing system. 400B Wing (PE/Caf Ext)	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	7,828
Fire Alarm: Upgrade existing system. 400C Wing (Gym)	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	13,520
Footings And Foundations Repair	-	Integrity	2- Potentially Critical	03/21/2011	306,146
Hazardous Materials: Asbestos floor tile. 300 Wing	F2020-Hazardous Components Abatement	Asbestos	1- Currently Critical	01/07/2005	25,085
Hazardous Materials: Asbestos floor tile. 300B Wing (TE/CFS/ART)	C3020-Floor Finishes	Asbestos	1- Currently Critical	01/07/2005	33,204
Hazardous Materials: Asbestos floor tile. 400 Wing	C3020-Floor Finishes	Asbestos	1- Currently Critical	01/07/2005	23,138
Hazardous Materials: Asbestos floor tile. 400A Wing (Caf)	C3020-Floor Finishes	Asbestos	1- Currently Critical	01/07/2005	21,637
HVAC Distribution System: Existing is inadequate. 300B Wing (TE/CFS/ART)	D3040-Distribution Systems	Energy	4- Recommended	01/04/2005	53,595
HVAC Distribution System: Existing is inadequate. 400C Wing (Gym)	D3040-Distribution Systems	Energy	4- Recommended	01/04/2005	445,280
Interior Construction: No ADA bathrooms. 300 Wing	C10-Interior Construction	Accessibility	1- Currently Critical	04/08/2005	4,249
Interior Doors: Drs at egress corridor not rated. 400 Wing	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	8,139

All costs in USD.



Requirement Name	Prime System	Category	Priority	Action Date	Cost
Plumbing Fixtures: Fountain non-ADA compliant. 300B Wing (TE/CFS/ART)	D2018-Drinking Fountains and Coolers	Accessibility	1- Currently Critical	08/27/2004	1,218
Plumbing Fixtures:Fountain non-ADA compliant. 400 Wing	D2018-Drinking Fountains and Coolers	Accessibility	1- Currently Critical	08/27/2004	1,218
Plumbing Fixtures:Fountain non-ADA compliant. 400A Wing (Caf)	D2018-Drinking Fountains and Coolers	Accessibility	1- Currently Critical	08/27/2004	1,218
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet Critical	03/21/2011	1,169
Sprinklers and Standpipes Part 1: Lack of Sprinkler System	D40-Fire Protection	Functionality	2- Potentially Critical	03/21/2011	313,720
Sprinklers: Do not exist. 300 Wing	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	67,246
Sprinklers: Do not exist. 300A Wing (Open)	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	11,984
Sprinklers: Do not exist. 300B Wing (TE/CFS/ART)	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	52,504
Sprinklers: Do not exist. 400 Wing	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	52,881
Sprinklers: Do not exist. 400A Wing (Caf)	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	9,664
Sprinklers: Do not exist. 400B Wing (PE/Caf Ext)	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	18,108
Stairs: No stairs to Stage Storage areas. 400C Wing (Gym)	-	Life Safety	2- Potentially Critical	08/02/2005	4,410
Vinyl Composition Tile Replace	C3020-Floor Finishes	Integrity	3- Necessary - Not Yet Critical	03/21/2011	43,713
Wood Exterior Trim Require Paint	-	Integrity	2- Potentially Critical	03/21/2011	1,299
Wood Window Replace	B2020-Exterior Windows	Integrity	2- Potentially Critical	03/21/2011	13,418
<b>Total</b>					<b>1,778,597</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Coffin School

Asset Name: COF - Main Building  
Asset Number: 1

## STATISTICS

FCI Cost:	799,706	FCI:	0.12
Total Requirements Cost :	799,706	RI:	0.12

Current Replacement Value	6,550,060	Address 1	20 Barrows Street
Size	48,887 SF	Address 2	-
Year Constructed	1954	City	Brunswick
Year Renovated	1990	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Elementary
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	4
Owned/Leased Portable Classrooms	0	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	400,000	Electricity Quantity 2009	268,000
Electricity Cost 2009	36,074	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	1,492
LP Cost 2009	2,616	Natural Gas Quantity 2009	3,148,323
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	53,706	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	75,000
Water Cost 2009	2,138	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.





Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	No	Fire Alarms	Yes

All costs in USD.



Emergency Generator No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports weatherstripping on 46 exterior doors and sealing the perimeters & lubing the dampers for the 5 roof top units in Dec. 2009 for \$21,342.

\*Staff reports converting the LP equipment to natural gas, also replaced the elec HW booster in the dishwasher with a Hatco Powermite PMG-60 (nat gas) and the HWH with a Bradford White D38T1553N (nat gas) during Dec. 2009 for \$40,371.

\*Staff reports replacing 88 florescent light fixtures and 12 metal halide fixtures in the gym with 12 4L4T5 during Dec. 2009 for \$10,859.

\*Staff reportis that 3 cutout valves in the SE boys bathroom were replaced in Nov. 2009 for \$1,479.

\*Staff reports that the commode in the NE boys bathroom was replaced in Oct. 2009 for \$707.

\*Staff reports replacing the main fair alarm panel in Sept. 2009 for a cost of \$2,450.

FY09 ----->

\*Staff reports installing advanced electric metering during Oct. 2008 for a cost of \$658.

\*Staff reports replacing the special education (Gym) bathroom commode/flange during Jan 2009 for a cost of \$1,177.

\*Staff reports replacing tge water service inlet to the building during Jan 2009 for a cost of \$1,635.

\*Staff reports replacing 8 HW heating pumps and installing 42 digital-actuated valves in FTR baseboards throughout & networked DDC controls, demo the air compressor for pneumatic control system. Project was complete during Aug. 2008 for a cost of \$87,296.

\*Staff reports that the panic hardware was replaced on 7 of the gym doors and exterior door from the SE to K playground with key-lockable hardware. Project complete in Dec. 2008 for a cost of \$5,325.

\*Staff reports replacing the 2 exterior doors in the cafe. hallway with alum. framed doors with low-E thermal pane glass during Aug. 2008 for a cost of \$5,050.

FY08 ----->

\*Staff reports that the remaining bathroom wash fountains were replaced with 3' diameter semi-circle Bradley washfountains in Aug. 2007 for a total cost of \$3,070.

\*Staff reports replacing the grease trap in the kitchen during Apr 2008 for a cost of \$1,680.

\*Staff reports replacing the wooden roof access ladder in the NW custodian closet with a wall mounted steel ladder during Sept. 2007 for a cost of \$686.

\*Staff reports replacing the gym hallway exterior egress double doors with aluminum framed doors with low-E thermal pane glass during Mar. 2008 for a cost of \$4,288.

*All costs in USD.*



\*Staff reports demo-ing the old boiler stack down to the gym roof level and sealing it off. Project was complete in Aug. 2007 for cost of \$2,670.

\*Staff reports replacing the ext door in the guidance office an an 8' aluminum window wall, with low-E thermal pane glass. Project was complete during Aug. 2007 for a cost of \$2,800.

\*Staff reports renovating 24,496SF of adhered EPDM roof and 2,134' of edge flashing for all classrooms and gym side of wings. Project expanded the life 15 more years. Completed during Aug. 2007 for a cost of \$61,995.

FY07 ----->

\*Staff reports replacing the heating hot water circ pump in the NW wing pump room during Feb. 2007 for a cost of \$1,420.

\*Staff reports replacing the foundation penetration sections for the hot water heating supply & return piping during Oct. 2006 for a cost of \$14,254.

\*Staff reports installing 6-20ft 6x9 steel I-beams in the stage ceiling with new battens & suspensions for the curtain and lights during Aug. 2006 for a cost of \$6,960.

\*Staff reports replacing 49' of baseboard fin tub covers in all the boys restrooms durinnng Feb. 2007 for a cost of \$3,745.

\*Staff reports replacing the electric hot water heater in the art room during April 2007 for a cost of \$847.

\*Staff reports replacing 694' of gutters & installing 14 downspouts with french drains during Aug. 2006 for a cost of \$18,273.

\*Staff reports replacing 6 restroom wash fountains with 3' diameter semi-circle Bradley wash fountains. Project was complete in Nov. 2006 for a cost of \$32,325.

\*Staff reports installing 10,235 SF of VCT flooring with vinyl cove base in rooms 10-15, te art room, computer lab, rooms 19, 20, 22, 26, and teacher's workroom during Aug. 2006 for a cost of \$23,725.

\*Staff reports renovating 17,150 SF of adhered EPDM roof and 1,721' of egde flashing for the North and South wing hallways & support rooms. Project has a 15 year life extension and was completed in Aug. 2006 for a cost of \$48,300.

FY06 ----->

\*Staff report replacing 4,853 SF of adhered EPDM and 486' of edge flashing on the food service, store room, and bus canopy. Has a 15 year life extension. Cost of project was \$25,000and was completed in Sept. 2005.

\*Staff reports replacing the theatre lighting during a 2005 project for a cost of \$3,000

\*Staff reports replacement of the fire alarm system dialer during 2005 for a cost of \$998.

\*Staff reports replacing 137' of single pane window wall with double-pan, low E window wall with aluminum framed windows in rooms 16-20 and the art room for a total project cost of \$26,480. Project complete in Sept. 2005

FY05 ----->

\*Staff reports repainting te exterior wood fascia trim including the front canopy during a 2004 project for a total cost of \$16,849.

\*Staff reports replacing the old phone system with a new VOIP digital phone system & extensions in every room during a 2004 project. Cost was \$26,728.

\*Staff report replacing 11,640 SF of adhered EPDM and 600' of edge flashing on the cafeteria and gym. Has a 15 year life extension. Cost of project was \$26,778 and was completed in Aug. 2004.

\*Staff reports replacing 180' of single pane window wall with double-pan, low E window wall with aluminum framed windows in rooms 10-15 and the art room for a total project cost of \$29,695. Project complete in Aug. 2004.

*All costs in USD.*



\*Staff reports installing 11,292 sf of VCT flooring with vinyl cove base in rooms 1-9, Guidance, Speech and Clinic. Some abatement was done as well. Total project cost was \$20,339 plus \$3,140 for abatement.

### FOOD SERVICE WING

D Wing is a 7,597 square-foot, 1-story building, located on the South side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel and wood framed and covered with an EPDM membrane roofing system.

The facility has a main corridor connection to C Wing with several exit doors. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with aluminum curtain wall and awning style windows.

Common area finishes are vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are painted CMU walls. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical tile.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by fin tube radiation along the exterior walls. Controls are electric for the fin tube radiation.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

This wing does not have a fire sprinkler system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into 4 panels located in C Wing. Panel #1 is a 208V, 400A, 3-phase for the building and Boiler House. Panel #2 is a 208V, 400A, 3-phase for the Kitchen. Panels #3 and #4 are a 208V, 200A, 1-phase for the Portables. These panels distribute power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

*All costs in USD.*



## Lighting:

The basic building lighting fixtures consist of 1 x 4 pendant fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

## Fire Alarm:

The building is equipped with a Simplex 4002, 9-zone fire alarm system, located in C Wing.

## Intercom System:

The building has a 2-way Dukane system.

## Other Systems:

The building has an internet throughout.

The building has CATV throughout.

The building has security camera system.

## GYM, CONNECTOR

B Wing is a 6,279 square-foot, 1-story building, located in the middle of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel and wood framed and covered with an EPDM membrane roofing system.

This wing is surrounded by corridors so there are no exterior doors.

The exterior walls are brick veneer with CMU backup walls with aluminum Kalwall windows.

Common area finishes are gym floor with wood base. Ceiling finishes are painted exposed structure. Wall finishes are painted CMU walls. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical tile.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

## Heating and Ventilation:

The building does not have any mechanical cooling. Heating and ventilation for the building is provided by rooftop air handling unit. Controls are electric.

## Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

## Fire Suppression:

*All costs in USD.*



This wing does not have a fire sprinkler system except in the corridors. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground vault. The service is run underground and terminates into 4 panels located in C Wing. Panel #1 is a 208V, 400A, 3-phase for the building and Boiler House. Panel #2 is a 208V, 400A, 3-phase for the Kitchen. Panels #3 and #4 are a 208V, 200A, 1-phase for the Portables. These panels distribute power through the complex via panels located in various locations in each of the wings.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-graded to self-powered LED units.

#### Lighting:

The basic building lighting fixtures consist of HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex 4002, 9-zone fire alarm system, located in C Wing.

#### Intercom System:

The building has a 2-way Dukane system.

#### Other Systems:

The building has an internet throughout.

The building has CATV throughout.

The building has security camera system.

#### NORTH WING

A Wing is a 17,392 square-foot, 1-story building, located on the North side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood framed and covered with an EPDM membrane roofing system.

The facility has entrances at the front of the building with corridor connections to B Wing. The front entrance has a ramp for barrier free access. The exterior doors are a combination of aluminum and hollow metal doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with aluminum curtain wall and awning style windows.

Common area finishes are vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are painted CMU walls. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical tile.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

*All costs in USD.*



## Heating and Ventilation:

The building has air conditioning in the office area. Heating and ventilation for the building is provided by rooftop heat recovery and ventilation units. There is fin tube radiation in some areas. Controls are a combination of electric for the fin tube radiation and digital for the ventilation system.

## Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided from the Boiler House. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

## Fire Suppression:

This wing does not have a fire sprinkler system except in the corridors. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

## Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into 4 panels located in C Wing. Panel #1 is a 208V, 400A, 3-phase for the building and Boiler House. Panel #2 is a 208V, 400A, 3-phase for the Kitchen. Panels #3 and #4 are a 208V, 200A, 1-phase for the Portables. These panels distribute power through the complex via panels located in various locations in each of the wings.

## Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

## Lighting:

The basic building lighting fixtures consist of 2 x 4 lay-in fixtures in corridors with 1 x 4 pendant fixtures in classrooms. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

## Fire Alarm:

The building is equipped with a Simplex 4002, 9-zone fire alarm system, located in C Wing.

## Telephone:

A telephone system is provided in the Office area only.

## Intercom System:

The building has a 2-way Dukane system.

## Other Systems:

The building has an internet throughout.

The building has CATV throughout.

The building has security camera system.

*All costs in USD.*



## SOUTH WING

C Wing is a 17,619 square-foot, 1-story building, located on the South side of the complex.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is wood framed and covered with an EPDM membrane roofing system.

The facility has exits at the ends of the wings with corridor connections to B and D Wings. The exterior doors are a combination of aluminum and wood doors and frames with exit device hardware.

The exterior walls are brick veneer with CMU backup walls with aluminum curtain wall and awning style windows.

Common area finishes are vinyl asbestos floor tile with vinyl cove base. Ceiling finishes are acoustical ceiling tile. Wall finishes are painted CMU walls. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are ceramic tile floors and painted CMU walls. Ceilings are acoustical tile.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

### Heating and Ventilation:

The building has a window air conditioning unit in the computer room. Heating and ventilation for the building is provided by rooftop heat recovery and ventilation units. There is fin tube radiation in some areas. Controls are a combination of electric for the fin tube radiation and digital for the ventilation system.

### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water is provided by a 30 gallon Banguard electric water heater serving the bathrooms and janitor closets. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

### Fire Suppression:

This wing does not have a fire sprinkler system except in the corridors. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

### Electrical Service and Distribution:

Power is supplied to the building by a transformer located in an underground fault. The service is run underground and terminates into 4 panels located in C Wing. Panel #1 is a 208V, 400A, 3-phase for the building and Boiler House. Panel #2 is a 208V, 400A, 3-phase for the Kitchen. Panels #3 and #4 are a 208V, 200A, 1-phase for the Portables. These panels distribute power through the complex via panels located in various locations in each of the wings.

### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

### Lighting:

*All costs in USD.*





The basic building lighting fixtures consist of 2 x 4 lay-in fixtures in corridors with 1 x 4 pendant fixtures in classrooms. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building and pole mounted HID fixtures.

## Fire Alarm:

The building is equipped with a Simplex 4002, 9-zone fire alarm system, located in C Wing.

## Telephone:

A telephone system is provided in the Office area only.

## Intercom System:

The building has a 2-way Dukane system.

## Other Systems:

The building has an internet throughout.

The building has CATV throughout.

The building has security camera system.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Aluminum Window Replace	B2020-Exterior Windows	Integrity	3- Necessary - Not Yet Critical	03/21/2011	11,840
Brick or Brick Veneer Repoint	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	8,238
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/21/2011	2,856
Ductwork and Terminal (End) Devices Part 3: Dirty Ductwork	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet Critical	03/21/2011	4,452
Electrical Distribution Part 2 - Switchboard Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	1- Currently Critical	03/21/2011	3,968
Electrical Distribution Part 4 - Motor Control Center Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	1- Currently Critical	03/21/2011	4,142
Electrical Distribution Part 6 - Panelboards Yearly Maintenance Required	D5012-Low Tension Service and Dist.	Functionality	1- Currently Critical	03/21/2011	1,498
Exterior Wall Repair	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	3,346
Exterior Walls Clean	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	1,717

All costs in USD.



Requirement Name	Prime System	Category	Priority	Action Date	Cost
Exterior Walls Paint	-	Integrity	3- Necessary - Not Yet Critical	03/21/2011	2,197
Fire Alarm: Upgrade existing system. Food Srv	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	12,512
Fire Alarm: Upgrade existing system. Gym/Conn	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	10,318
Fire Alarm: Upgrade existing system. N. wing	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	28,642
Fire Alarm: Upgrade existing system. S. wing	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	20,755
Fixed Furnishings: Stage curtains not fire rated. Gym/Conn	E10-Equipment	Life Safety	1- Currently Critical	04/27/2005	20,402
Hazardous Materials: Asbestos floor tile. Food Srv	C3020-Floor Finishes	Asbestos	4- Recommended	01/07/2005	36,211
HVAC Distribution System: Past useful life. Gym/Conn	D3040-Distribution Systems	Energy	4- Recommended	01/04/2005	232,600
Install Isolation Valve	D2020-Domestic Water Distribution	Functionality	3- Necessary - Not Yet Critical	03/21/2011	12,392
Interior Construction: No ADA toilets. N. wing	D2010-Plumbing Fixtures	Accessibility	4- Recommended	03/06/2005	22,047
Interior Doors - Glazing does not meet code. N. wing	C1020-Interior Doors	Life Safety	1- Currently Critical	12/05/2004	209
Interior Doors: Doors at Cafe not fire rated. Food Srv	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	6,442
Interior Doors: Drs at egress corridor not rated. N. wing	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	4,048
Interior Doors: Hardware non-ADA compliant. Food Srv	C1020-Interior Doors	Accessibility	1- Currently Critical	01/11/2005	2,758
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet Critical	03/21/2011	390
Room 22 Exterior Windows: Past Useful Life S. wing	B2020-Exterior Windows	Integrity	1- Currently Critical	09/08/2004	10,744
Sprinklers and Standpipes Part 1: Lack of Sprinkler System	D40-Fire Protection	Functionality	2- Potentially Critical	03/21/2011	207,840

All costs in USD.



## Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Sprinklers: Do not exist in classrooms. S. wing	D40-Fire Protection	Building Code	1- Currently Critical	01/04/2005	54,193
Sprinklers: Only in hallway. N. wing	D40-Fire Protection	Building Code	1- Currently Critical	01/04/2005	45,959
Sprinklers: System needs upgrade. Gym/Conn	D40-Fire Protection	Building Code	4- Recommended	01/04/2005	11,200
Stairs: Handrails do not meet code. Gym/Conn	-	Building Code	1- Currently Critical	08/27/2004	4,064
Vinyl Composition Tile Replace	C3020-Floor Finishes	Integrity	3- Necessary - Not Yet Critical	03/21/2011	11,725
Total					799,705

All costs in USD.



SAU: Brunswick School Department  
Facility: Coffin School

Asset Name: COF - Portables  
Asset Number: 2

## STATISTICS

FCI Cost:	186,017	FCI:	1.27
Total Requirements Cost :	186,017	RI:	1.27

Current Replacement Value	146,109	Address 1	20 Barrows Street
Size	3,200 SF	Address 2	-
Year Constructed	1968	City	Bunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Elementary
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	4
Owned/Leased Portable Classrooms	4	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	No	Security Cameras Used	No
Annual Maintenance Costs	15,000	Electricity Quantity 2009	15,960
Electricity Cost 2009	2,406	Fuel Oil Quantity 2009	0
Fuel Oil Cost 2009	0	Kerosene Quantity 2009	2,358
Kerosene Cost 2009	8,556	LP Quantity 2009	0
LP Cost 2009	0	Natural Gas Quantity 2009	0
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	0	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	8,900
Water Cost 2009	271	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	No
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	More than 30 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	No	Fire Alarms	Yes

All costs in USD.



Emergency Generator

No

**Access Control Description**

No administrative suite specifically for portables. Located on opposite side of access road from Main Building and partially visible from administrative office suite in Main Building.

**Emergency Pwr Other Systems**

-

**PHOTO****ASSET DESCRIPTION**

Portables consist of 4 units of 800 square feet each.

\*Staff reports replacing both 275 gallon K-1 tanks during Sept. 2004 for a cost of \$1,700.

\*Staff reports replacing the fuel lift pump for M7/M8 in Jan. 2009 for a cost of \$530.

**REQUIREMENTS**

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Aluminum Window Replace	B2020-Exterior Windows	Integrity	3- Necessary - Not Yet Critical	03/20/2011	31,573
Asphalt Shingle Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	16,671
Branch Circuit and Power Systems Part 3 - Loose Cable above Ceiling	D5021-Branch Wiring Devices	Functionality	3- Necessary - Not Yet Critical	03/20/2011	3,043
Carpet Replace	C3020-Floor Finishes	Integrity	2- Potentially Critical	03/20/2011	9,389
Controls Part 1: Controls Require Minor Repair	D3040-Distribution Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	924
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Domestic Water Distribution Part 6: Defective Electric Water Heaters	D2020-Domestic Water Distribution	Functionality	3- Necessary - Not Yet Critical	03/20/2011	769
Exterior Door Repair	B2030-Exterior Doors	Integrity	3- Necessary - Not Yet Critical	03/20/2011	4,253
Flashing Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	1,149
Interior Door Repair	C1020-Interior Doors	Integrity	3- Necessary - Not Yet Critical	03/20/2011	2,932
Isolation Valve Replace	D2020-Domestic Water Distribution	Functionality	3- Necessary - Not Yet Critical	03/20/2011	6,196

All costs in USD.



## Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Lighting, Controls, and Switches Part 1 - Aged Lenses/Reflectors	D5022-Lighting Equipment	Functionality	3- Necessary - Not Yet Critical	03/20/2011	3,941
Plumbing Fixture Part 1: Nonfunctional Restroom Sink	D2010-Plumbing Fixtures	Functionality	2- Potentially Critical	03/20/2011	1,133
Plumbing Fixture Part 1: Nonfunctional Toilet	D2010-Plumbing Fixtures	Functionality	2- Potentially Critical	03/20/2011	2,093
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet Critical	03/20/2011	467
Sprinklers and Standpipes Part 1: Lack of Sprinkler System	-	Functionality	2- Potentially Critical	03/20/2011	22,816
Suspended Acoustical Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	2,453
Vinyl Composition Tile Replace	C3020-Floor Finishes	Integrity	2- Potentially Critical	03/20/2011	4,960
Vinyl or Aluminum Siding Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	3,214
Water Leak Repair	D2020-Domestic Water Distribution	Functionality	3- Necessary - Not Yet Critical	03/20/2011	2,011
Wood Floor or Roof Deck Replace	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	41,623
Wood Siding Repair	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	21,551
<b>Total</b>					<b>186,017</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Harriet Beecher Stowe School

Asset Name: HBS - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	0	Address 1	McKeen Street
Size	566,280 SF	Address 2	-
Year Constructed	2009	City	Brunswick
Year Renovated	-	State/Province/Region	Maine
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	Portland Design Team (P.D.T.)
Ownership	-	Historical Category	-
Floors	-	Construction Type	-
Type	Site General	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	-
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-
Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-

All costs in USD.





Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	No	Sun Shades	Yes
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-
Emergency Generator	No		

All costs in USD.



## Access Control Description

Dual security function access keypads with proximity sensors and pin entry requirement.

## Emergency Pwr Other Systems

Point of connection available for prolonged outage connection

## PHOTO

## ASSET DESCRIPTION

Lawns and Fields = 7.84 acres

Pavement = 3.56 acres

Rooftop = 1.60 acres

TOTAL = 13.00 acres

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0



SAU: Brunswick School Department  
Facility: Harriet Beecher Stowe School

Asset Name: HBS-Main Building  
Asset Number: 1

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	0	Address 1	-
Size	99,886 SF	Address 2	-
Year Constructed	2011	City	-
Year Renovated	-	State/Province/Region	-
Commission Date	-	Zip/Postal Code	-
Decommission Date	-	Architect	Portland Design Team (P.D.T.)
Ownership	-	Historical Category	-
Floors	1	Construction Type	-
Type	Building	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	-
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-
Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-

All costs in USD.



Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	Yes	Sun Shades	Yes
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-
Emergency Generator	No		

All costs in USD.



## Access Control Description

-

## Emergency Pwr Other Systems

There is a generator point of connection available for prolonger outages.

## PHOTO

## ASSET DESCRIPTION

-

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0



SAU: Brunswick School Department  
Facility: Hawthorne Building

Asset Name: HAW - Building  
Asset Number: 1

## STATISTICS

FCI Cost:	1,873,388	FCI:	0.60
Total Requirements Cost :	1,873,388	RI:	0.60

Current Replacement Value	3,127,531	Address 1	46 Federal Street
Size	23,490 SF	Address 2	-
Year Constructed	1893	City	Brunswick
Year Renovated	1915	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	On Register
Floors	3	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Elementary
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	1	Portable Classrooms	0
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	No	Security Cameras Used	Yes
Annual Maintenance Costs	125,000	Electricity Quantity 2009	55,781
Electricity Cost 2009	4,400	Fuel Oil Quantity 2009	4,763
Fuel Oil Cost 2009	16,332	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	0
LP Cost 2009	0	Natural Gas Quantity 2009	0
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	0	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	13,000
Water Cost 2009	559	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	11-15 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	No	Fire Alarms	Yes

All costs in USD.



Emergency Generator

No

## Access Control Description

Front office has view of one of two entrance stairwells.

## Emergency Pwr Other Systems

-

## PHOTO



Hawthorne

Front elevation of Hawthorne school from Federal Street.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports replacing the weather strip to 3 of the exterior doors in Dec. 2009 for \$2,316.

\*Staff reports disconnect & decommission the 1924 13-section HBSmith boiler. Cap all fuel oil lines. Rebreech a Weil-McLain boiler & installed Riello RS50-M natural gas burner with new gas train & 20' of natural gas supply piping from the meter. Also installed 12" of stainless steel liner for the chimney & installed new intake air dampers for the boiler room. Completed in Nov. 2009 for a total cost of \$37,693.

\*Staff report installed networked intrusion alarm system with 2 zones & 10 sensors in Feb 2010 for \$4,958.

\*Staff reports installing an ADA auto door opener on the front door, fire rated panic hardware for all stairwell doors, and type 2 ADA lever locksets with mastered cylinder sets in Oct. 2009 for \$13,214.

\*Staff reports installing stair lifts in each stairwell linking the ground floor, front door, landing & first floor. Also moved the sprinkler piping out of the headway, provided maintenance access, and emergency phone lines for each lift. Completed in Dec. 2009 for \$86,318.

\*Staff reports expanding the data network cabling drops throughout the building. Also added 2 analog phone lines (4 total) in July 2009 for \$16,983.

\*Staff reports increasing the fiber optic service to the building in July 2009 for \$750.

\*Staff reports replacing 3 obsolete child-size commodes in the women's bathroom with pressure-flush rear drain commodes, replaced the washfountain in the men's bathroom with 3' diameter semi-circle Bradley washfountain, and provided hot water to the washfountains in both ground floor bathrooms. Project cost a total of \$14,822 and was finished in July 2009.

\*Staff reports a project in July 2009 in which 19 pull down closet doors were reconditioned & made operable. 260 SF of stone foundation was sealed on the ground floor storeroom for a total cost of \$5,342.

All costs in USD.





\*Staff report creating a 189 SF office within a 992 SF room, split a 418 SF room into 2 office (163 SF & 255 SF), also created a 60 SF server space within a 418 SF room. Installed 83' of 12.5' high drywalled NLB interior walls & installed 3 fire rated doors, demo'd 40' of steam radiator with 40' of steam fin tub radiator with baseboard enclosures. Also installed new simplex condensate tank (.25 HP) pump & re-route 22' of steam condensate piping over the stair landing on the ground floor. Lastly, a ductless split AC unit was installed in the server room. Project complete in July 2009 for a total of \$80,254.

\*Staff reports repairing cracks in the plaster & paint all 1st & 2nd floor rooms/halls & stairwells in Feb. 2010 for \$5,610.

\*Staff reports installing 60 duplex/quad outlets, 18 ceiling fans, new conduit wiring for all, and code-compliant floor penetrations from the server room to the 1st floor hallway for networking. An old oven and dishwasher were also demo'd. Complete in Aug. 2009 for a total of \$35,368.

\*Staff reports replacing the main drain valve and the external warning bell on the dry sprinkler system in Dec. 2009 for \$735.

\*Staff reports replacing window sash in Rm 14 & 5 in July/Aug. 2009 for \$642.

\*Staff reports adding advanced electric metering in Nov. 2009 for \$806.

FY09 ----->

\*Staff reports replacing the lower window sash in room 12 during Nov. 2008 for \$377.

FY08 ----->

\*Staff reports replacing & sheathing 15' of fuel piping to the burner fronts during Sept. 2007 for a cost of \$551.

FY07 ----->

\*Staff reports replacing a commode in the girls bathroom during 2007 for a cost of \$850.

\*Staff reports replacing the women's restroom wash fountain with a 3' diameter semi-circle Bradley wash fountain during Jan. 2007 for a cost of \$3,070.

FY06 ----->

\*Staff reports replacing the phone system with a new VOIP digital system with extensions to every room during Sept. 2005 for a cost of \$9,772.

\*Staff reports that a new fire alarm dialer system was installed during Sept. 2005 at a cost of \$998.

\*Staff reports replacing 7 of the 37 ground level windows with low E, thermal pane, historically accurate windows as required by town zoning. Project completed in April 2006 for a cost of \$11,772.

FY05 ----->

\*Staff reports that 400 SF of failing plaster ceiling in the boiler room was replaced during Oct. 2004 for \$4,164.

\*Staff reports replacing 1,543 SF of broadloom carpet in Room 5 during Aug. 2004 for \$3,255.

\*Staff reports replacing 3 obsolete commodes in the boys bathroom during Nov. 2004 for \$5,079.

Hawthorne Elementary School is a 23,490 square-foot, 3-story building, located in the center of the property.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction type is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete and stone foundation walls and concrete footings and slab on grade sub-floor in the Ground Floor. The superstructure of the facility is brick bearing walls with wood floor joists. The roof is wood framed and covered with EPDM

*All costs in USD.*



membrane roofing.

The facility has entrances at the front of the building. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are brick bearing walls with new aluminum replacement windows installed in 1999 at the first and second floor levels. Old original wood windows are in the Ground Floor level.

Common area finishes are mostly carpet with vinyl cove base. Ceiling finishes are painted plaster ceilings. Wall finishes are a combination of painted brick and plaster. Interior doors are wood doors with lever type access hardware.

Bathroom finishes are concrete floors and a combination of painted brick and Plaster. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building needs some improvements to meet current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by cast iron radiators. Controls are the pneumatic.

#### Boilers:

The boiler room is located in the basement. There are two boilers; one is a McLain 88 Series steam boiler with Carlin burner installed in approximately 1999. The second boiler is an older converted coal-fired steam boiler, Smith 44 converted in approximately 1960. There is an 8,000 gallon underground oil tank with a monitoring system installed approximately 1992.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water for the Kitchen is provided from an 80 gallon Bradford electric water heater. Small electric water heaters provides hot water to the first and second floors. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

The building has an automatic, fully charged, dry pipe fire sprinkler distribution system throughout. In all areas of the building there are automatic sprinkler heads. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a pole mounted transformer. The service is run above ground and terminates into a 120/240V, 600A panelboard located in the basement. This panelboard was installed in approximately 1999. This panel distributes power through the building via panels located in the various locations.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

#### Lighting:

The basic building lighting fixtures consist of 2 x 4 lay-in fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building mounted HID fixtures.

*All costs in USD.*



## Fire Alarm:

The building is equipped with a Notifier SPF 400B, 8 zone fire alarm system, installed in approximately 1999.

## Other Systems:

The building has cable television throughout and a security system.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Branch Circuit and Power Systems Part 2 - Inadequate for 0 pct - 25 pct of Building	D5021-Branch Wiring Devices	Functionality	2- Potentially Critical	03/20/2011	14,553
Carpet Replace	C3020-Floor Finishes	Integrity	2- Potentially Critical	03/20/2011	11,663
Controls Part 1: Controls Require Minor Repair	D3040-Distribution Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	6,779
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Ductwork and Terminal (End) Devices Part 1: Defective Radiators or Perimeter Fin Tube Radiation (Steam or Heating Hot Water)	D3020-Heat Generating Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	182,776
Ductwork and Terminal (End) Devices Part 3: Dirty Ductwork	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,139
Electrical Distribution: Past useful life.	D5010-Electrical Service and Distribution	Modernization	3- Necessary - Not Yet Critical	04/28/2005	18,749
Elevators: No ADA access to all floor levels.	D1010-Elevators and Lifts	Accessibility	5- Does Not Meet Current Codes / Standards	04/10/2005	190,680
Exterior Door Repair	B2030-Exterior Doors	Integrity	3- Necessary - Not Yet Critical	03/20/2011	2,127
Exterior Wall Repair	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	3,346
Exterior Walls Clean	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	429
Exterior Windows: Past Useful Life	B2020-Exterior Windows	Integrity	2- Potentially Critical	01/04/2005	60,479
Fire Alarm: Upgrade existing system.	D5037-Fire Alarm Systems	Building Code	1- Currently Critical	01/04/2005	25,203

All costs in USD.



# Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
HVAC Distribution System: Past useful life.	D3040-Distribution Systems	Energy	4- Recommended	01/04/2005	1,193,679
Interior Construction: Stairs do not meet code.	C10-Interior Construction	Life Safety	1- Currently Critical	04/28/2005	19,404
Interior Doors: Doors at stairs not fire rated.	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	36,705
Other Elec Systems: Clock system past useful life.	D5090-Other Electrical Systems	Functionality	3- Necessary - Not Yet Critical	08/02/2005	14,050
Plaster Replace	-	Integrity	2- Potentially Critical	03/20/2011	1,164
Plumbing Fixture Part 1: Damaged or Nonfunctioning Utility Sink	-	Functionality	2- Potentially Critical	03/20/2011	1,063
Plumbing Fixture Part 2: Defective Self Contained Refrigerated Drinking Fountain	-	Functionality	2- Potentially Critical	03/20/2011	2,093
Plumbing Fixtures: Fountains non-ADA compliant.	D2010-Plumbing Fixtures	Accessibility	5- Does Not Meet Current Codes / Standards	08/27/2004	3,654
Stairs: Handrails do not meet code.	C20-Stairs	Building Code	1- Currently Critical	08/27/2004	31,751
Stone Walls Repair	-	Integrity	3- Necessary - Not Yet Critical	03/20/2011	1,506
Vinyl Composition Tile Replace	C3020-Floor Finishes	Integrity	2- Potentially Critical	03/20/2011	2,871
Vinyl Molded Treads & Risers Replace	-	Integrity	2- Potentially Critical	03/20/2011	24,801
Wood Window Replace	B2020-Exterior Windows	Integrity	3- Necessary - Not Yet Critical	03/20/2011	18,868
				<b>Total</b>	<b>1,873,388</b>

All costs in USD.



SAU: Brunswick School Department  
Facility: Hawthorne Building

Asset Name: HAW - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	229,731	Address 1	46 Federal Street
Size	1,016 Each	Address 2	-
Year Constructed	1970	City	Brunswick
Year Renovated	2000	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	-
Floors	-	Construction Type	-
Type	Site Structures/Furnishings/Appurtenances	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.



Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	-
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-

All costs in USD.



Emergency Generator -

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports installing 119' of buried 2" natural gas supply line from the street in Aug. 2009 for no cost.

\*Staff reports installing a new sign in Sept. 2009 for \$1,150.

\*Staff reports installing 20' alum ADA access ramps with 7'x7' platforms at each front entrance in Aug. 2009 for \$31,134.

\*Staff reports demo of 30' chain link fence in front of the building, also repaved/striped 7,550 SF also in the front (9 pk slots wth 1 ADA van accessible) in Aug. 2009 for \$14,305.

FY09 ----->

\*Staff reports repaving/stripping 12,000 SF behind the building (28 parking spots), removing 65' of chainlink fence & 2 gates behind the building, and revmong 2 basketball hoops and the playground equipment behind the building. Completed in June 2009 for a caost of \$25,160.

FY05 ----->

\*Staff reprots replacing the failing DW service to the building in Sept. 2004 for \$3,570.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0



SAU: Brunswick School Department  
Facility: Jordan Acres School

Asset Name: JAS - Building  
Asset Number: 1

## STATISTICS

FCI Cost:	2,045,489	FCI:	0.40
Total Requirements Cost :	2,045,489	RI:	0.40

Current Replacement Value	5,096,096	Address 1	75 Jordan Avenue
Size	39,960 SF	Address 2	-
Year Constructed	1972	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	Drummey Rosane Anderson
Ownership	-	Historical Category	None
Floors	1	Construction Type	BOCA - Type 5B Unprotected Wood
Type	Building	Use	Elementary
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	8
Owned/Leased Portable Classrooms	8	Green Cleaning Products Used	Yes
Green Cleaning Procedures Used	Yes	Carbon Footprint	0
Admin Suite At Entrance	Yes	Security Cameras Used	Yes
Annual Maintenance Costs	411,000	Electricity Quantity 2009	310,060
Electricity Cost 2009	45,603	Fuel Oil Quantity 2009	10,000
Fuel Oil Cost 2009	34,900	Kerosene Quantity 2009	0
Kerosene Cost 2009	0	LP Quantity 2009	20
LP Cost 2009	38	Natural Gas Quantity 2009	0
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	0	Wood Chips Quantity 2009	0
Wood Chips Cost 2009	0	Wood Pellets Quantity 2009	0
Wood Pellets Cost 2009	0	Water Quantity 2009	71,000
Water Cost 2009	2,000	Other Quantity 2009	0
Other Unit 2009	-	Other Cost 2009	0
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-

All costs in USD.





Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-
Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	Yes
Thermal Scan	No	Geothermal	No
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	No
Roofing Installed	00-05 Years	Door Transoms	0
Lead Survey	No	Lead SF	-
Solar Powered Hot Water	No	Waste Water Treatment Plant	No
Chiller Count	-	Evidence of Mold	No
CO2 Detectors	No	Automatic Dimmers	No
Occupancy Sensors	Yes	Fire Alarms	Yes

All costs in USD.



Emergency Generator

No

## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO



A Wing

This is one of the side elevations of A Wing.

## ASSET DESCRIPTION

FY10 ----->

\*Staff reports in Nov. 2009 for \$124,166 demo of 2 Modine rooftop AHUs and associated ethylene glycol heat transfer systems. Installed new:

1 RenewAire HE4X900RT (3,500 CFM) for the gym,

1 RenewAire HE2X900RT (1,500 CFM) for the office core,

4 associated HW coils

Networked all equipment to DDC controls.

\*Staff reports that the evaporator fan motors in the walk-in cooler were replaced with brushless DC & also installed a CoolTrol control system during Aug. 2009 for \$7,827.

\*Staff reports that weather strip was added to 21 exterior doors. Also sealed the perimeters & lubed the dampers for the 5 roof top units in Dec. 2009 for \$11,136.

\*Staff reports that the hot water heating pumps in the boiler room were replaced with 2 7.5 HP Taco FI2108 pumps with VFDs in Aug. 2009 for \$35,000.

\*Staff reports replacing 29 florescent light fixtures, and replacing 6 inca lihghts on the stage with florescents, and demo 11 florescent and 14 metal halide fixtures in the gym in Aug. 2009 for \$10,000.

\*Staff reports replacing Pod 1 ampitheater window in Dec. 2009 for \$637.

\*Staff reports that the backflow preventer on the boiler makeup feed was replaced in Nov. 2009 for \$725.

\*Staff reports replacing 1 of 3 main breakers in Aug. 2009 for \$1,092.

\*Staff reports replacing 4 obsolete breaker panels: 2 in the copier room and 2 in the receiving room. Project done in Aug. 2009 for \$14,870.

*All costs in USD.*



## FY09 ----->

\*Staff reports replacing 2 of the vandalized clerestory windows above the library during Aug. 2008 for a cost of \$404.

\*Staff reports removing 2 external wallpacks at the front entry during Oct. 2008 for a cost of \$619.

\*Staff reports installing an advanced electric meter during Oct. 2008 for a cost of \$658.

\*Staff reports building/installing a new class area separator for pod 5 during Aug. 2008 for a cost of \$11,092.

\*Staff reports installing new cabinetry, countertops, and stainless steel sinks in pods 2 & 3. Cabinets are: (1) 20'x7'x18", (1) 8'x7'x3', (2) 8'x3'x3', (1) 16.5'x3'x2.5' and (1) 16.5'x3'x1'. Countertops are (1) 16.5'x2.5' and (2) 8'x3'.

\*Staff reports installing 5,147 SF of Shaw Parallels II carpet tile & vinyl cove base in pods 4/5. Also renewed the epoxy flooring with Dur-A-Flex, Dur-A-Quartz in pod 4/5 bathrooms & wet area, and in Pod 1 boys room (607 SF). Project was complete in Aug. 2008 for a cost of \$33,105.

\*Staff reports replacing 6 obsolete breaker panels: 2 each in Pod 4/5, Pod 2/3, and Office storage room during April 2009 for a cost of \$15,195.

## FY08 ----->

\*Staff reports replacing the gym bubbler and installing a new water cooler during Nov. 2007 for a cost of \$1,440.

\*Staff reports installing 16 hardwired pull-down outlets in the computer lab, Pad 1-4, and primary section during Aug. 2007 for a cost of \$7,378.

\*Staff reports installing a 3-ton Mitsubishi ductless split AC unit in the computer lab during Aug. 2007 for a cost of \$14,300.

\*Staff reports that in Aug. 2007 they demo'd and installed new cabinetry and a dividing wall in the Teacher's Prep area between Pods 4 & 5. Cabinets: (2) 3'x7'x2' and (12) 8'x2'x2'. Dividing wall: 7'x11'. Project cost was \$8,157.

\*Staff reports installing Shaw Parallels II carpet tile (3,200 SF) & vinyl cove base in the front entry & primary pod. They also renewed the epoxy flooring with Dur-A-Flex Dur-A-Quartz in the clinic, 2 of the staff bathrooms, the 2 visitors bathrooms, 4 of the primary pod bathrooms, and the primary pod entryway (627 SF). Total cost was \$26,891.

## FY07 ----->

\*Staff reports replacing 7 emergency light battery packs during Sept 2006 for a cost of \$2,512.

\*Staff reports replacing the receiving room doors with steel double doors with panic hardware during Aug. 2006 for a cost of \$4,470.

\*Staff reports replacing the wooden front doors with alum. double-pane doors with sidelights & panic hardware during Aug. 2006 for a cost of \$6,200.

\*Staff reports replacing 1,365 SF of the carpet in the central offices during Aug. 2006 for an appx cost of \$5,000.

\*Staff reports installing 1,446 SF of VCT and vinyl cove base in the computer room, copier room, and receiving room during Aug. 2006 for an appx cost of \$5,938.

\*Staff reports renovating 32,223 SF of adhered EPDM roof & 1,072' of edge flashing for the perimeter of the building except for the gym & computer lab. Project had a 15 year life extension and was completed in Aug. 2006 at a cost of \$39,800.

## FY06 ----->

\*Staff reports replacing the fuel oil transfer pump with a duplex pump system during Nov 2005 for a cost of \$4,000.

\*Staff reports that the HWH for the central office was replaced during Aug 2005 for a cost of \$750.

*All costs in USD.*



\*Staff reports replacing the fire alarm system dialer during Sept 2005 for a cost of \$998.

\*Staff reports renovating 7,737 SF of adhered EPDM roof and 478' edge flashing for computer room and gym. Project has a 15 year life extension. Completed in Sept. 2005 for a cost of \$22,000.

\*Staff reports replacing the old phone system with a VOIP digital system and extensions to each room during Sept 2005 project for a cost of \$23,861.

FY05 ----->

\*Staff reports installing 6 hardwired pull-down outlets in Pod 4 & 5 in Aug. 2004 for a cost of \$758.

\*Staff reports an IAQ upgrade during Aug. 2004 for a total cost of \$375,000. Included:

Demo of 19 unit ventilators,

Installed 3 RenewAire HE4X900RT heat recovery vents on the roof (8 roof penetrations: (3) 22"x24", (1) 20"x20", (2) 18"x18", (2) 12"x12") and 3 ceiling mount HWC's with 660' of interior and exterior ducting.

Installed 19 MagicAire vertical fan coiled units (12) 1,200 CFM, (7) 800 CFM, and

Installed 3 Mitsubishi MSM18NW ductless split AC system for the office rooms, (3 roof comp/cond units, 6 room units).

\*Staff reports replacing the cabinets and countertops during Aug. 2004. A new steel sink was also installed between pods 4 & 5. Total project cost was \$28,546

## MAIN BUILDING

A - Wing is a 34,641 square-foot, 1-story building housing classroom, admin, kitchen, and Library areas.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction type A Wing is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel and wood framed and covered with EPDM membrane roofing.

The facility has entrances at the front of the building. The exterior doors are hollow metal doors and frames with exit device hardware.

The exterior walls are split-face CMU veneer with CMU backup walls with aluminum windows.

Common area finishes are mostly carpet with vinyl cove base. Ceiling finishes are exposed wood beams and Tectum deck. Wall finishes are mostly painted CMU with a little gypsum board. Interior doors are wood doors with knob type access hardware.

Bathroom finishes are epoxy resin floors and a combination of painted CMU and gypsum board. Ceilings are acoustical panel ceilings.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by unit ventilators located on the outside walls. Controls are the original pneumatic.

### Boilers:

The boiler room is located in this wing. There is one boiler; a McLain burning No. 2 oil with a Webster modulated burner. There is a 10,000 gallon underground oil tank with monitoring system.

### Plumbing:

*All costs in USD.*



Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water for the building is provided by several small electric hot water heaters. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

The building has an automatic, fully charged, wet pipe fire sprinkler distribution system in the kitchen area only with automatic sprinkler heads. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations. The Owner has indicated that the Kitchen Hood does not require a suppression system.

#### Electrical Service and Distribution:

Power is supplied to the building by a pad mounted transformer. The service is run under ground and terminates into a 208V, 1600A, 3 phase panelboard. This panel distributes power through the building via panels located in the various locations.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

#### Lighting:

The basic building lighting fixtures consist of 1 x 4 surface mounted fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex, 2 zone fire alarm system.

#### Telephone:

The building has a Contel telephone system.

#### Other Systems:

The building has cable television throughout.

The building has a Levington fiberoptic internet system.

The building has a Bellchime clock system.

#### MULTI-PURPOSE

B - Wing is a 5,319 square-foot, 1-story building housing the Multi-Purpose room.

Per the 1999 BOCA National Building Code, this facility is classified as an Educational Facility. Per the 1999 BOCA National Building Code, the construction type B Wing is Type 5B.

The building substructure is comprised of reinforced cast-in-place concrete foundation walls and footings and slab on grade. The roof is steel and wood framed and covered with EPDM membrane roofing.

The exterior walls are split-face CMU veneer with CMU backup walls with aluminum windows.

*All costs in USD.*



Common area finishes are vinyl composition floor tile with vinyl cove base. Ceiling finishes are exposed wood beams and Tectum deck. Wall finishes are painted CMU. Interior doors are wood doors with knob type access hardware.

Compliance for accessibility using ADA guidelines reveals the building meets current requirements.

#### Heating and Ventilation:

The building does not have any mechanical cooling. Heating for the building is provided by unit ventilators located on the outside walls. Controls are the original pneumatic.

#### Boilers:

The boiler room is located in this wing. There is one boiler; a McLain burning No. 2 oil with a Webster modulated burner. There is a 10,000 gallon underground oil tank with monitoring system.

#### Plumbing:

Domestic water is provided by the town. The water is distributed throughout the building, via copper tubing, to all restrooms, drinking fountain, sinks, janitor's closets and other points of use. The hot water for the building is provided by several small electric hot water heaters. Restroom fixtures are predominately vitreous china water closets and urinals with porcelain sinks and chrome over brass fixtures.

The storm and sanitary system is gravity return to the town sewer. Visible piping within the building appears to be in good condition and is a mixture of cast iron and copper piping. The majority of the heating piping is insulated.

#### Fire Suppression:

The building has no fire sprinkler distribution system. The building has multiple ABC type fire extinguishers. All the handheld fire extinguishers appear to be adequate in number and locations.

#### Electrical Service and Distribution:

Power is supplied to the building by a pad mounted transformer. The service is run under ground and terminates into a 208V, 1600A, 3 phase panelboard. This panel distributes power through the building via panels located in the various locations.

#### Emergency Power:

The building does not have an emergency generator. All emergency lighting is accomplished with emergency battery units located throughout the facility. Exit lights need to be up-grade to self-powered LED units.

#### Lighting:

The basic building lighting fixtures consist of 1 x 4 surface mounted fixtures. The building service spaces, including janitor closets and mechanical spaces, use industrial type fixtures with T8 lamps and electronic ballasts. Exterior lighting consists of building mounted HID fixtures.

#### Fire Alarm:

The building is equipped with a Simplex, 2 zone fire alarm system.

#### Telephone:

The building has a Contel telephone system.

#### Other Systems:

The building has cable television throughout.

*All costs in USD.*



The building has a Levington fiberoptic internet system.

The building has a Bellchime clock system.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Carpet Replace	C3020-Floor Finishes	Integrity	3- Necessary - Not Yet Critical	03/20/2011	44,678
Controls Part 1: Controls Require Minor Repair	D3040-Distribution Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	11,532
Decontaminate Domestic Water Distribution System	D2020-Domestic Water Distribution	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	2,856
Domestic Water Distribution Part 6: Defective Steam to Domestic Water Converter	D2020-Domestic Water Distribution	Functionality	3- Necessary - Not Yet Critical	03/20/2011	920
Ductwork and Terminal (End) Devices Part 1: Defective CV Box	D3040-Distribution Systems	Functionality	3- Necessary - Not Yet Critical	03/20/2011	59,976
Ductwork and Terminal (End) Devices Part 3: Dirty Ductwork	D3040-Distribution Systems	Air and Water Quality	3- Necessary - Not Yet Critical	03/20/2011	3,639
Equipment: Kitchen shutter does not meet code. Main	E1090-Other Equipment	Life Safety	1- Currently Critical	04/28/2005	19,418
Exterior Walls Clean	B2011-Exterior Wall Construction	Integrity	3- Necessary - Not Yet Critical	03/20/2011	687
Hazardous Materials: Asbestos floor tile. Multi-purpose	-	Asbestos	1- Currently Critical	01/07/2005	22,673
HVAC Distribution System: Existing is inadequate. Main	D3040-Distribution Systems	Energy	4- Recommended	01/04/2005	1,434,202
Interior Doors: Door to Office needs hold-open. Main	C1020-Interior Doors	Life Safety	1- Currently Critical	01/04/2005	1,057
Interior Doors: Doors at Kitchen not fire rated. Main	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	5,896
Interior Doors: Drs at egress corridor not rated. Main	C1020-Interior Doors	Life Safety	1- Currently Critical	04/27/2005	9,235
Interior Doors: Hardware non-ADA compliant. Main	C1020-Interior Doors	Accessibility	1- Currently Critical	08/27/2004	6,747

All costs in USD.



## Asset Detail Report

by Asset Name

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Isolation Valve Requires Repair	-	Functionality	1- Currently Critical	03/20/2011	1,028
Partitions: Wall in Office not fire rated. Main	C1010-Partitions	Life Safety	1- Currently Critical	04/28/2005	4,639
Plumbing Fixture Part 1: Nonfunctional Restroom Sink	D2010-Plumbing Fixtures	Functionality	3- Necessary - Not Yet Critical	03/20/2011	566
Plumbing Fixture Part 1: Damaged or Nonfunctioning Utility Sink	-	Functionality	3- Necessary - Not Yet Critical	03/20/2011	1,063
Plumbing Fixtures: Fountains non-ADA compliant. Main	D2010-Plumbing Fixtures	Accessibility	1- Currently Critical	08/27/2004	2,436
Repaint Wall Finishes (Oil Or Latex)	C3010-Wall Finishes	Integrity	3- Necessary - Not Yet Critical	03/20/2011	78
Sprinklers and Standpipes Part 1: Lack of Sprinkler System	D40-Fire Protection	Functionality	2- Potentially Critical	03/20/2011	270,940
Sprinklers: Do not exist. Main	D4010-Sprinklers	Building Code	1- Currently Critical	01/04/2005	128,027
Terrazzo Replace	C3020-Floor Finishes	Integrity	3- Necessary - Not Yet Critical	03/20/2011	13,194
				<b>Total</b>	<b>2,045,487</b>

All costs in USD.





SAU: Brunswick School Department  
Facility: Jordan Acres School

Asset Name: JAS - Site  
Asset Number: 10

## STATISTICS

FCI Cost:	0	FCI:	0.00
Total Requirements Cost :	0	RI:	0.00

Current Replacement Value	440,904	Address 1	75 Jordan Avenue
Size	6,300 SF	Address 2	-
Year Constructed	1972	City	Brunswick
Year Renovated	-	State/Province/Region	ME
Commission Date	-	Zip/Postal Code	04011
Decommission Date	-	Architect	-
Ownership	-	Historical Category	-
Floors	-	Construction Type	-
Type	Sidewalks, plazas and malls	Use	-
Year of Last Addition	-	State Eligible	0
National Eligible	0	State Register	0
National Register	0	Portable Classrooms	-
Owned/Leased Portable Classrooms	-	Green Cleaning Products Used	-
Green Cleaning Procedures Used	-	Carbon Footprint	-
Admin Suite At Entrance	-	Security Cameras Used	-
Annual Maintenance Costs	0	Electricity Quantity 2009	-
Electricity Cost 2009	-	Fuel Oil Quantity 2009	-
Fuel Oil Cost 2009	-	Kerosene Quantity 2009	-
Kerosene Cost 2009	-	LP Quantity 2009	-
LP Cost 2009	-	Natural Gas Quantity 2009	-
Kerosene Cost 2011	-	Electricity Cost 2012	-
Fuel Oil Quantity 2012	-	Fuel Oil Cost 2012	-
Kerosene Quantity 2012	-	Kerosene Cost 2012	-
Natural Gas Cost 2009	-	Wood Chips Quantity 2009	-
Wood Chips Cost 2009	-	Wood Pellets Quantity 2009	-
Wood Pellets Cost 2009	-	Water Quantity 2009	-
Water Cost 2009	-	Other Quantity 2009	-
Other Unit 2009	-	Other Cost 2009	-
Electricity Quantity 2010	-	Electricity Cost 2010	-
Fuel Oil Quantity 2010	-	Fuel Oil Cost 2010	-
Kerosene Quantity 2010	-	Kerosene Cost 2010	-
LP Quantity 2010	-	LP Cost 2010	-
Natural Gas Quantity 2010	-	Natural Gas Cost 2010	-

All costs in USD.



Wood Chips Quantity 2010	-	Wood Chips Cost 2010	-
Wood Pellets Quantity 2010	-	Wood Pellets Cost 2010	-
Water Quantity 2010	-	Water Cost 2010	-
Other Quantity 2010	-	Other Unit 2010	-
Other Cost 2010	-	Electricity Quantity 2011	-
Electricity Cost 2011	-	Fuel Oil Quantity 2011	-
Fuel Oil Cost 2011	-	Kerosene Quantity 2011	-
LP Quantity 2011	-	LP Cost 2011	-
Natural Gas Quantity 2011	-	Natural Gas Cost 2011	-
Wood Chips Quantity 2011	-	Wood Chips Cost 2011	-
Wood Pellets Quantity 2011	-	Wood Pellets Cost 2011	-
Water Quantity 2011	-	Water Cost 2011	-
Other Quantity 2011	-	Other Unit 2011	-
Other Cost 2011	-	Electricity Quantity 2012	-
Electricity Cost 2013	-	Fuel Oil Quantity 2013	-
LP Quantity 2012	-	LP Cost 2012	-
Natural Gas Quantity 2012	-	Natural Gas Cost 2012	-
Wood Chips Quantity 2012	-	Wood Chips Cost 2012	-
Wood Pellets Quantity 2012	-	Wood Pellets Cost 2012	-
Water Quantity 2012	-	Water Cost 2012	-
Other Quantity 2012	-	Other Unit 2012	-
Other Cost 2012	-	Electricity Quantity 2013	-
LP Quantity 2013	-	Other Unit 2013	-
Other Cost 2013	-	Energy Audit	-
Thermal Scan	-	Geothermal	-
Fuel Oil Cost 2013	-	Kerosene Quantity 2013	-
Kerosene Cost 2013	-	LP Cost 2013	-
Natural Gas Quantity 2013	-	Natural Gas Cost 2013	-
Wood Chips Quantity 2013	-	Wood Chips Cost 2013	-
Wood Pellets Quantity 2013	-	Wood Pellets Cost 2013	-
Water Quantity 2013	-	Water Cost 2013	-
Other Quantity 2013	-	Lead LF	-
Emergency Pwr Life Safety Only	-	Sun Shades	-
Roofing Installed	-	Door Transoms	-
Lead Survey	-	Lead SF	-
Solar Powered Hot Water	-	Waste Water Treatment Plant	-
Chiller Count	-	Evidence of Mold	-
CO2 Detectors	-	Automatic Dimmers	-
Occupancy Sensors	-	Fire Alarms	-
Emergency Generator	-		

All costs in USD.



## Access Control Description

-

## Emergency Pwr Other Systems

-

## PHOTO

## ASSET DESCRIPTION

\*Staff reports replacing 128' of wooden fencing with 6' of chain link & vinyl privacy slats during a 2005 project for a total cost of \$3,350.

## REQUIREMENTS

Requirement Name	Prime System	Category	Priority	Action Date	Cost
Total					0



**MIDCOAST ENVIRONMENTAL, INC.**

(207) 837 - 0564 E-MAIL: claycollins1@yahoo.com  
P.O. BOX 382, STANDISH ME 04084

**BUILDING INSPECTION OR RE-INSPECTION**  
**INFORMATION SHEET**

<b>Building Number:</b>	1057
<b>LEA:</b>	BRUNSWICK SCHOOL DEPARTMENT
<b>Building Name:</b>	COFFIN ELEMENTARY SCHOOL
<b>Building Address:</b>	20 BARROWS STREET - BRUNSWICK, MAINE

<b>Is ACM Present in Building:</b>	YES
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<b>CHANGES IN MATERIALS (append sampling and inspection data as required.)</b>
FLOOR TILES IN PORTABLE CLASSROOM #3 ABATED IN JULY, 2010

<b>Date of Inspection:</b>	AUGUST 11, 2011
<b>Signature of Inspector:</b>	<i>Clayton C Collins</i>
<b>Typed Name of Inspector:</b>	CLAYTON C. COLLINS
<b>Company Address of Inspector:</b>	MIDCOAST ENVIRONMENTAL, INC.
	P.O. BOX 382
	STANDISH, MAINE 04084
<b>Inspector Certification #:</b>	ME # AI - 0013
<b>Inspector Certification Expiration Date:</b>	JANUARY 31, 2012

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

LEA: BRUNSWICK SCHOOL DEPARTMENT

**SCHOOL:** COFFIN ELEMENTARY SCHOOL  
20 BURROWS STREET  
BRUNSWICK, MAINE 04011

**Building:** #1057

**MidCoast Environmental, Inc. [(207) 837-0564]**  
**P. O. Box 382**  
**Standish, Maine 04084**

ROOM # / LOCATION	Type	INITIAL AHRA ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
ROOM # 1 - PORTABLE	FT	5	5	-	-	NONE	O & M	
ROOM # 2 - PORTABLE	FT	5	5	-	-	NONE	O & M	
ROOM # 3 - PORTABLE	FT	5	5	-	-	ABATED	O & M	JULY, 2010
ROOM # 4 - PORTABLE	FT	5	5	-	-	NONE	O & M	
<b>"A" WING</b>								
DISCOVERY ROOM "A"	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
FACULTY ROOM - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
FACULTY ROOM - REST ROOM	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
FACULTY ROOM STORAGE	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
MECHANICAL ROOM - "A" WING	FI	6	6	-	-	NONE	O & M	
CLINIC - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
SPEECH - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
ROOM # 1 - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
ROOM # 2 - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
ROOM # 3 - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
ROOM # 4 - "A" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006
<b>CORRIDOR</b>	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2006

\* 9" FLOOR TILES COVERED BY 12" FLOOR TILES

Custodian: PHIL MENARD

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

Inspector: Clayton C. Collins Management Planner: Clayton C. Collins Date September 1, 2011  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012)) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012))

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

LEA: BRUNSWICK SCHOOL DEPARTMENT

SCHOOL: COFFIN ELEMENTARY SCHOOL  
20 BURROWS STREET  
BRUNSWICK, MAINE 04011

Building: #1057

MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084

ROOM # / LOCATION	Type	INITIAL AHRA ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
<b>"B" WING</b>								
<b>MAIN OFFICE</b>	<b>FT</b>	<b>5</b>	<b>5</b>	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
PRINCIPAL'S - STORAGE ROOM	FT	5	5	-	-	NONE	O & M	
PRINCIPAL'S - REST ROOM	FT	5	5	-	-	NONE	O & M	
MECHANICAL ROOM - "B" WING	<b>FI</b>	5	5	-	-	NONE	O & M	
ROOM # 9 - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
ROOM # 8 - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
ROOM # 7 - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
ROOM # 6 - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
ROOM # 5 - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
LOBBY BY GYMNASIUM	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
GYMNASIUM - STAGE	<b>FI</b>	5	5	-	-	NONE	O & M	
GYMNASIUM - STAGE	<b>PC</b>	5	5	-	-	NONE	O & M	
CORRIDOR - "B" WING	FT	5	5	-	-	ENCAPSULATED *	O & M	<b>JULY, 2006</b>
CORRIDOR - GYMNASIUM	<b>FI</b>	5	5	-	-	NONE	O & M	

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

\* 9" FLOOR TILES COVERED BY 12" FLOOR TILES

Custodian: PHIL MENARD

Inspector: Clayton C Collins Management Planner: Clayton C Collins Date September 1, 2011  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012)) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012))

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

LEA: BRUNSWICK SCHOOL DEPARTMENT

SCHOOL: COFFIN ELEMENTARY SCHOOL  
20 BURROWS STREET  
BRUNSWICK, MAINE 04011

Building: #1057

MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084

ROOM # / LOCATION	Type	INITIAL AHERA ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
CORRIDOR - AROUND GYMNASIUM	FT	5	5	-	-	NONE	O & M	
MECHANICAL ROOM UNDER STAGE	FI	5	5	-	-	NONE	O & M	
MECHANICAL ROOM UNDER STAGE	PC	5	5	-	-	NONE	O & M	
"C" WING								
TEACHERS' ROOM	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
TEACHERS' ROOM - REST RM.	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
TEACHERS' ROOM - STORAGE	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
MECHANICAL ROOM - "C" WING	PC	5	5	-	-	NONE	O & M	
MECHANICAL ROOM "C" WING	FI	5	5	-	-	NONE	O & M	
BEHAVIOR RESOURCES RM #22	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 10 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 11 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 12 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 13 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 14 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 15 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 16 - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

\* 9" FLOOR TILES COVERED BY 12" FLOOR TILES

Custodian: PHIL MENARD

Inspector: Clayton C Collins Management Planner: Clayton C Collins Date September 1, 2011  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012)

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

LEA: BRUNSWICK SCHOOL DEPARTMENT

Building: #1057

SCHOOL: COFFIN ELEMENTARY SCHOOL  
20 BURROWS STREET  
BRUNSWICK, MAINE 04011

MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084

ROOM # / LOCATION	Type	INITIAL AHERA ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
CORRIDOR - "C" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
"D" WING								
LIBRARY - "D" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 18 - "D" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 19 - "D" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
ROOM # 20 - "D" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
CUSTODIAN'S CLOSET - "D" WING	PC	5	5	-	5	NONE	O & M	
MECHANICAL ROOM - "D" WING	FI	6	6	-	-	NONE	O & M	
ROOM ADJACENT TO KITCHEN	FI	5	5	-	-	NONE	O & M	
RESOURCE ROOM - "D" WING	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
CORRIDOR	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
KITCHEN OFFICE	FT	5	5	-	5	NONE	O & M	
KITCHEN - STORAGE ROOM	FT	5	5	-	5	NONE	O & M	
KITCHEN - SUPPLY ROOM	FT	5	5	-	5	NONE	O & M	
KITCHEN	FT	5	5	-	-	ENCAPSULATED*	O & M	JULY, 2007
KITCHEN	PC	5	5	-	-	NONE	O & M	
ROOM ADJACENT TO KITCHEN	FI	5	5	-	-	NONE	O & M	
CORRIDOR - BETWEEN "C" WING & CAFETERIA	PC	5	5	-	-	NONE	O & M	

\* 9" FLOOR TILES COVERED BY 12" FLOOR TILES

Custodian: PHIL MENARD

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

Inspector: Clayton C Collins Management Planner: Clayton C Collins Date September 1, 2011  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012)) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012))



## **SUMMARY**

### **BRUNSWICK SCHOOL DEPARTMENT**

#### **JORDAN ACRES SCHOOL**

Brunswick School Department retained the services of **MIDCOAST ENVIRONMENTAL INC.**, to provide the required subsequent eighteenth year re-inspection to the initial A.H.E.R.A Survey and Management Plan, for asbestos containing materials at the **JORDAN ACRES SCHOOL**. A re-inspection of the facility under the Management Plan is to take place every three years following the implementation of the Operations and Maintenance program per CFR 40 Part 763 Asbestos Containing Material in Schools: Final Rule and Notice. Every three years an accredited A.H.E.R.A inspector re-inspects the L.E.A's facilities and associated management plans for changes in material status as well as up to date O & M documentation. This provides the whole A.H.E.R.A program a quality control.

The re-inspection of the **JORDAN ACRES SCHOOL** was conducted in August 2011 by an A.H.E.R.A accredited inspector using the current facility Management Plan as a road map by which to locate regulated materials. All areas indicated in the Management Plan were visited. Notes were taken as to the present condition of the materials located. The Management Plan itself was inspected for content and proper documentation of O & M response actions.

The inspector found the asbestos materials located at the **JORDAN ACRES SCHOOL** as indicated by the Management Plan to be in good condition and well maintained. These findings correlate with the assessment codes assigned most of the material in the initial survey. The facility is not without areas that need attention as indicated in the following pages; they are areas, which will require appropriate response actions.

**MIDCOAST ENVIRONMENTAL, INC.**

(207) 837 - 0564 E-MAIL: claycollins1@yahoo.com  
P.O. BOX 382, STANDISH ME 04084

**BUILDING INSPECTION OR RE-INSPECTION**  
**INFORMATION SHEET**

<b>Building Number:</b>	1059
<b>LEA:</b>	BRUNSWICK SCHOOL DEPARTMENT
<b>Building Name:</b>	JORDAN ACRES ELEMENTARY SCHOOL
<b>Building Address:</b>	75 JORDAN AVENUE - BRUNSWICK, MAINE

<b>Is ACM Present in Building:</b>	YES
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<b>CHANGES IN MATERIALS (append sampling and inspection data as required.)</b>
NO CHANGES IN ACM MATERIAL SINCE LAST INSPECTION

<b>Date of Inspection:</b>	AUGUST 11, 2011
<b>Signature of Inspector:</b>	<i>Clayton C Collins</i>
<b>Typed Name of Inspector:</b>	CLAYTON C. COLLINS
<b>Company Address of Inspector:</b>	MIDCOAST ENVIRONMENTAL, INC.
	P.O. BOX 382
	STANDISH, MAINE 04084
<b>Inspector Certification #:</b>	ME # AI - 0013
<b>Inspector Certification Expiration Date:</b>	JANUARY 31, 2012



## **SUMMARY**

### **BRUNSWICK SCHOOL DEPARTMENT**

#### **BRUNSWICK JR. HIGH SCHOOL**

Brunswick School Department retained the services of **MIDCOAST ENVIRONMENTAL INC.**, to provide the required subsequent eighteenth year re-inspection to the initial A.H.E.R.A Survey and Management Plan, for asbestos containing materials at the **BRUNSWICK JR. HIGH SCHOOL**. A re-inspection of the facility under the Management Plan is to take place every three years following the implementation of the Operations and Maintenance program per CFR 40 Part 763 Asbestos Containing Material in Schools: Final Rule and Notice. Every three years an accredited A.H.E.R.A inspector re-inspects the L.E.A's facilities and associated management plans for changes in material status as well as up to date O & M documentation. This provides the whole A.H.E.R.A program a quality control.

The re-inspection of the **BRUNSWICK JR. HIGH SCHOOL** was conducted in August 2011 by an A.H.E.R.A accredited inspector using the current facility Management Plan as a road map by which to locate regulated materials. All areas indicated in the Management Plan were visited. Notes were taken as to the present condition of the materials located. The Management Plan itself was inspected for content and proper documentation of O & M response actions.

The inspector found the asbestos materials located at the **BRUNSWICK JR. HIGH SCHOOL** as indicated by the Management Plan to be in good condition and well maintained. These findings correlate with the assessment codes assigned most of the material in the initial survey. The facility is not without areas that need attention as indicated in the following pages; they are areas, which will require appropriate response actions.

**MIDCOAST ENVIRONMENTAL, INC.**

(207) 837 - 0564 E-MAIL: claycollins1@yahoo.com  
P.O. BOX 382, STANDISH ME 04084

**BUILDING INSPECTION OR RE-INSPECTION**  
**INFORMATION SHEET**

<b>Building Number:</b>	1055
<b>LEA:</b>	BRUNSWICK SCHOOL DEPARTMENT
<b>Building Name:</b>	BRUNSWICK JUNIOR HIGH SCHOOL
<b>Building Address:</b>	65 COLUMBIA AVENUE - BRUNSWICK, MAINE

<b>Is ACM Present in Building:</b>	YES
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<b>CHANGES IN MATERIALS (append sampling and inspection data as required.)</b>
NO CHANGES IN ACM MATERIAL SINCE LAST INSPECTION

<b>Date of Inspection:</b>	AUGUST 11, 2011
<b>Signature of Inspector:</b>	<i>Clayton C Collins</i>
<b>Typed Name of Inspector:</b>	CLAYTON C. COLLINS
<b>Company Address of Inspector:</b>	MIDCOAST ENVIRONMENTAL, INC.
	P.O. BOX 382
	STANDISH, MAINE 04084
<b>Inspector Certification #:</b>	ME # AI - 0013
<b>Inspector Certification Expiration Date:</b>	JANUARY 31, 2012

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

**SCHOOL BRUNSWICK SCHOOL DEPARTMENT** Building: 1055  
BRUNSWICK JUNIOR HIGH SCHOOL  
BARROWS STREET  
BRUNSWICK, MAINE

**MidCoast Environmental, Inc. [(207) 837-0564]**  
**P. O. Box 382**  
**Standish, Maine 04084**

ROOM # / LOCATION	Type	1987 INITIAL ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
<b>PRINCIPAL'S OFFICE</b>	<b>FT</b>	<b>5</b>	<b>5</b>	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
PRINCIPAL'S OFFICE - REST ROOM	<b>FT</b>	5	5	-	-	NONE	O & M	
LOBBY REST ROOMS [PIPE CHASE]	<b>PC</b>	5	5	-	-	NONE	O & M	
BOYS' REST RM [OPPOSITE MAIN]	<b>PC</b>	5	5	-	-	NONE	O & M	
GIRLS' REST RM [OPPOSITE MAIN]	<b>PC</b>	5	5	-	-	NONE	O & M	
GIRLS' REST RM [OPPOSITE MAIN]	<b>FI</b>	5	5	-	-	NONE	O & M	
CUSTODIAN'S CLOSET - 1 <sup>ST</sup> FLOOR	<b>PC</b>	5	5	-	-	NONE	O & M	
CUSTODIAN'S CLOSET - 1 <sup>ST</sup> FLOOR	<b>FI</b>	5	5	-	-	NONE	O & M	
200 WING - CUSTODIAN'S CLOSET	<b>FT</b>	5	5	-	-	NONE	O & M	
ROOM #301A	<b>PC</b>	5	5	-	-	NONE	O & M	
<b>ROOM #301</b>	<b>FT</b>	<b>5</b>	<b>5</b>	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
ROOM #305	<b>PC</b>	5	5	-	-	NONE	O & M	
ROOM #305	<b>FI</b>	5	5	-	-	NONE	O & M	
ROOM #307	<b>FI</b>	5	5	-	-	NONE	O & M	
ROOM #307A	<b>FI</b>	5	5	-	-	NONE	O & M	
ROOM #309	<b>FI</b>	5	5	-	-	NONE	O & M	

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
2. Damaged friable surfacing ACM.
3. Significantly damaged friable surfacing ACM.
4. Damaged or significantly damaged friable miscellaneous ACM.
5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

CUSTODIAN: PAT FEEHAN

Inspector: Clayton C Collins Management Planner: Clayton C Collins Date September 1, 2011 1  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012)

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

SCHOOL BRUNSWICK SCHOOL DEPARTMENT Building: 1055

BRUNSWICK JUNIOR HIGH SCHOOL  
BARROWS STREET  
BRUNSWICK, MAINE

MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084

ROOM # / LOCATION	Type	1987 INITIAL ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
ROOM # 311	FI	5	5	-	-	NONE	O & M	
ROOM # 313	FI	5	5	-	-	NONE	O & M	
ROOM # 314	FI	5	5	-	-	NONE	O & M	
<b>ROOM # 314</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
ROOM # 317	FI	5	5	-	-	NONE	O & M	
300 WING - FACULTY MEN'S ROOM	FI	5	5	-	-	NONE	O & M	
300 WING - FACULTY LADIES RM	FI	5	5	-	-	NONE	O & M	
ROOM # 401	FT			-	-	NONE	O & M	
<b>ROOM # 402</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 402 A</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 402 B</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
ROOM # 402 C ASSIST. PRINCIPAL	FI	5	5	-	-	NONE	O & M	
ROOM # 402 D MUSIC OFFICE	FT	5	5	-	-	NONE	O & M	
ROOM # 402 E	FT	5	5	-	-	NONE	O & M	
ROOM # 403	FT	5	5	-	-	NONE	O & M	
ROOM # 403	PC	5	5	-	-	NONE	O & M	
ROOM # 403	FI	5	5	-	-	NONE	O & M	

## Assessment Codes:

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7. Any remaining friable ACBM or friable suspected ACBM.

Inspector: Clayton C Collins

Management Planner: Clayton C Collins

CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012))

Date: September 1, 2011

CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012))

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

**SCHOOL BRUNSWICK SCHOOL DEPARTMENT** Building: 1055  
BRUNSWICK JUNIOR HIGH SCHOOL  
BARROWS STREET  
BRUNSWICK, MAINE

**MidCoast Environmental, Inc. [(207) 837-0564]**  
**P. O. Box 382**  
**Standish, Maine 04084**

ROOM # / LOCATION	Type	1987 INITIAL ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
ROOM # 404	FT	5	5	-	-	NONE	O & M	
ROOM # 404 [STORAGE ROOM]	FT	5	5	-	-	NONE	O & M	
ROOM # 404	PC	5	5	-	-	NONE	O & M	
ROOM # 404	FI	5	5	-	-	NONE	O & M	
ROOM # 407 [SPRINKLER ROOM]	FI	5	5	-	-	NONE	O & M	
<b>ROOM # 408</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 408A</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 408 B</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 408 C</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
<b>ROOM # 408 D</b>	FT	5	5	-	-	<b>CARPETED</b>	<b>O &amp; M</b>	
ROOM #408 E	FT	5	5	-	-	NONE	O & M	
CONFERENCE ROOM [REST ROOM]	FT	5	5	-	-	NONE	O & M	
GYMNASIUM CORRIDOR	PC	5	5	-	-	NONE	O & M	
GYMNASIUM CORRIDOR	OT	5	5	-	-	NONE	O & M	
GYMNASIUM	PC	5	5	-	-	NONE	O & M	
GYMNASIUM	FI	5	5	-	-	NONE	O & M	
GYMNASIUM [STAGE]	TC	5	5	-	-	NONE	O & M	
GYMNASIUM [STAGE]	FI	5	5	-	-	NONE	O & M	

## Assessment Codes:

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5. ACBM with potential for damage.
6. ACBM with potential for significant damage.
7. Any remaining friable ACBM or friable suspected ACBM.

Inspector: Clayton C. Collins Management Planner: Clayton C. Collins Date September 1, 2011 3  
CLAYTON C. COLLINS (#AI-0013 EXP. 01/31/2012)) CLAYTON C. COLLINS (#MP-0168 EXP. 03/31/2012))



# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

**SCHOOL BRUNSWICK SCHOOL DEPARTMENT**  
BRUNSWICK JUNIOR HIGH SCHOOL  
BARROWS STREET  
BRUNSWICK, MAINE

Building: 1055

**MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084**

ROOM # / LOCATION	Type	1987 INITIAL ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
GIRLS' LOCKER ROOM	FI	5	5	-	-	NONE	O & M	
GIRLS' LOCKER RM [HEATER RM]	FT	5	5	-	-	NONE	O & M	
KITCHEN [STORAGE ROOM]	PC	5	5	-	-	NONE	O & M	
KITCHEN [STORAGE ROOM]	FI	5	5	-	-	NONE	O & M	
KITCHEN [STORAGE ROOM]	FT	5	5	-	-	NONE	O & M	
KITCHEN [REST ROOM]	FT	5	5	-	-	NONE	O & M	
KITCHEN [REST ROOM]	PC	5	5	-	-	NONE	O & M	
CAFETERIA	FT	5	5	-	-	NONE	O & M	
CAFETERIA CUSTODIAN'S CLOSET	FT	5	5	-	-	NONE	O & M	
ATHLETIC LOBBY	PC	5	5	-	-	NONE	O & M	
ATHLETIC LOBBY[STRGE CLOSET]	FT	5	5	-	-	NONE	O & M	
ATHLETIC LOBBY[UTILITY CLOSET]	PC	5	5	-	-	NONE	O & M	
ATHLETIC LOBBY[UTILITY CLOSET]	FT	5	5	-	-	NONE	O & M	
LOBBY BETWEEN RMS 401 & 403	FI	6	6	-	-	NONE	O & M	
FACULTY CLOSET	FT	5	5	-	-	NONE	O & M	
ELECTRICAL ROOM	FI	5	5	-	-	NONE	O & M	

## Assessment Codes:

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Inspector: Clayton C Collins Management Planner: Clayton C Collins Date September 1, 2011 4  
CLAYTON C. COLLINS (#AI - 0013 EXP. 01/31/2012)) CLAYTON C. COLLINS (#MP - 0168 EXP. 03/31/2012))

**MIDCOAST ENVIRONMENTAL, INC.**

(207) 837 - 0564 E-MAIL: claycollins1@yahoo.com  
P.O. BOX 382, STANDISH ME 04084

## **BUILDING INSPECTION OR RE-INSPECTION INFORMATION SHEET**

<b>Building Number:</b>	1058
<b>LEA:</b>	BRUNSWICK SCHOOL DEPARTMENT
<b>Building Name:</b>	HAWTHORNE SCHOOL - SUPERINTENDENT'S OFFICE
<b>Building Address:</b>	46 FEDERAL STREET - BRUNSWICK, MAINE

<b>Is ACM Present in Building:</b>	YES
------------------------------------	-----

<b>CHANGES IN MATERIALS (append sampling and inspection data as required.)</b>
CLOSED AS AN ELEMENTARY SCHOOL SEPTEMBER, 2009. ROOM #7 ON FIRST FLOOR HAS BEEN DIVIDED INTO TWO SEPARATE ROOMS. THE DIVISION WALL WAS BUILT ON TOP OF THE ACM FLOOR TILES.

<b>Date of Inspection:</b>	AUGUST 11, 2011
<b>Signature of Inspector:</b>	<i>Clayton C Collins</i>
<b>Typed Name of Inspector:</b>	CLAYTON C. COLLINS
<b>Company Address of Inspector:</b>	MIDCOAST ENVIRONMENTAL, INC.
	P.O. BOX 382
	STANDISH, MAINE 04084
<b>Inspector Certification #:</b>	ME # AI - 0013
<b>Inspector Certification Expiration Date:</b>	JANUARY 31, 2012

# 3 YEAR INSPECTION BUILDING HAZARD RE-ASSESSMENT

LEA: BRUNSWICK SCHOOL DEPARTMENT

SCHOOL: HAWTHORNE ELEMENTARY SCHOOL  
46 FEDERAL STREET  
BRUNSWICK, MAINE 04011

Building: #1058

MidCoast Environmental, Inc. [(207) 837-0564]  
P. O. Box 382  
Standish, Maine 04084

ROOM # / LOCATION	Type	INITIAL AHRA ASSESSMENT	2011 RE-ASSESS.	2014 RE-ASSESS.	2017 RE-ASSESS.	CHANGE IN CONDITION	RESPONSE ACTIONS	DATE OF RESPONSE
BOILER ROOM	BC	5	5	-	-	NONE	O & M	
PSYCHOLOGIST'S ROOM - BASEMENT	PC	5	5	-	-	NONE	O & M	
KITCHEN - BASEMENT	FT	5	5	-	-	NONE	O & M	
FIRST FLOOR - ROOM # 3	FT	5	5	-	-	NONE	O & M	
FIRST FLOOR - ROOM # 4	FT	5	5	-	-	NONE	O & M	
FIRST FLOOR - ROOM # 6	FT	5	5	-	-	CARPETED	O & M	
FIRST FLOOR - ROOM # 7	FT	5	5	-	-	NONE	O & M	
VENT TAPE - ATTIC	OT	5	5	-	-	NONE	O & M	
CLOSET - PRINCIPAL'S OFFICE	FT	5	5	-	-	NONE	O & M	
OFFICE ADJACENT TO PRINCIPAL'S	FT	5	5	-	-	CARPETED	O & M	
FIRST FLOOR - NURSE'S OFFICE	FC	5	5	-	-	NONE	O & M	
STAIR A ADJACENT TO ROOM 12	FT	5	5	-	-	NONE	O & M	
STAIR B ADJACENT TO ROOM 13	FT	5	5	-	-	NONE	O & M	
STAIR C ADJACENT TO LIBRARY	FT	5	5	-	-	NONE	O & M	
STAIR D ADJACENT TO STORAGE	FT	5	5	-	-	NONE	O & M	
STAIR E ADJACENT TO ROOM #6	FT	5	5	-	-	NONE	O & M	
STAIR F ADJACENT TO GIRLS' R.R.	FT	5	5	-	-	NONE	O & M	

## Assessment Codes:

1. Damaged or significantly damaged thermal system insulation.
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4. Damaged or significantly damaged friable miscellaneous ACM.
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CUSTODIAN - GEORGE JOY

Inspector: Clayton C. Collins Management Planner: Clayton C. Collins Date September 1, 2011  
CLAYTON C. COLLINS (#A1-0013 EXP. 01/31/2012) CLAYTON C. COLLINS (#MP-0168 EXP. 03/31/2012)