

# Hardy, Hunnewell and Upham

## Additional Scenarios 9 & 10

Wellesley, Massachusetts

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Submitted by:

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# Additional Scenarios 9 & 10

Hardy, Hunnewell and Upham Elementary Schools Study  
Wellesley, Massachusetts

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## Introduction

### Additional Master Plan Scenarios

This document is a supplement to the Hardy, Hunnewell and Upham Elementary Schools study dated December 7, 2015.

In December 2015, Symmes Maini and McKee Associates (SMMA) was asked by the Town of Wellesley, working thru the School Facilities Committee (SFC), to develop two additional master plan options for the Hardy, Hunnewell and Upham Elementary Schools following multiple community and school wide discussions.

#### **Scenario Nine**

New and Add/Reno Options for all three schools using equal 330 student populations totaling 990 students.

#### **Scenario Ten**

New and Add/Reno Options for all three schools using equal 3½ sections schools at 425 student populations and totaling 1,275 students.

These options allow the District to consider an increase above predicted population counts in the Cropper demographic reports.



## Section One

# Executive Summary

### 1.1 Overview

The schools are summarized as follows:

- Hardy Elementary School, constructed in 1924, with additions in 1956 and 1994, and portables added in 1996 & 1997, total area of 45,909 GSF (included in total area is 4,080 GSF for four portable classrooms).
- Hunnewell Elementary School, constructed in 1938, with additions in 1956 and 1995, and portables added in 1993, total area of 36,441 GSF (included in total area is 2,257 GSF for two portable classrooms).
- Upham Elementary School, constructed in 1952, with an addition in 1967, and portables added in 1993, total area of 36,481 GSF (included in total area is 2,475 GSF for two portable classrooms).

The new masterplan options explored multiple planning options for each school site increasing the schools' populations equally. From these planning options, multiple Masterplan Scenarios Nine and Ten were developed.

### 1.2 Master Plan Scenarios Nine and Ten

**Masterplan Scenario 9** replaces each school but increases the existing population capacity to 330 students improving the educational curriculum spaces (using the MSBA space standards). Upham is a fully new building behind the existing school and both schools remain in operation to serve as swing space for the two subsequent projects. Hardy utilizes the historic portion of the existing school with new spaces behind. Hunnewell also retains its historic portion and the 1994 wing while adding new spaces between including a small parking garage below the new addition. Masterplan Scenario 9 has a construction cost of \$91.8 million and a project cost of \$126.7 million for 990 students in 174,735 square feet.

**Masterplan Scenario 10** replaces each school but increases the existing population capacity to 425 students improving the educational curriculum spaces (using the MSBA space standards). Upham is a fully new building behind the existing school and both schools remain in operation to serve as swing space for the two subsequent projects. Hardy utilizes the historic portion of the existing school with new spaces behind. Hunnewell also retains its historic portion and the 1994 wing while adding new spaces between including a small parking garage below the new addition. Masterplan Scenario 10 has a construction cost of \$101.6 million and a project cost of \$140.3 million for 1,275 students in 210,900 square feet.



## Section Two Planning Options

### 2.1 Site Considerations

1. Buildable Land
2. Traffic
3. Fit Test
  - a. Can construction be done without swing space?
  - b. Can construction be done without extensive phasing?

**John D. Hardy Elementary School**  
 Total Acreage: 7.5 Acres  
 Approx. Buildable Acreage: 6.0 Acres

**Hunnewell Elementary School**  
 Total Acreage: 5.6 acres  
 Approx. Buildable Acreage: 3.0 acres

**Upham Elementary School**  
 Total Acreage: 12.0 Acres  
 Approx. Buildable Acreage: 10.5 Acres



**Chart One – Summary of Planning Options**

OPTIONS	NORTH 40	HARDY ES	HUNNEWELL ES	UPHAM ES
New	660-Students 3 Stories	660-Students 3 Stories	Not possible	660-Students 3 Stories
New	536-Students 2.5-3 Stories	536-Students 3 Stories	536-Students 3 Stories	536-Students 2.5-3 Stories
Add/Reno	N/A	536-Students 3 Stories	425-Students 2.5-3 Stories	536-Students 2.5-3 Stories
Repairs Only	N/A	308-Students	330-Students	264-Students
New Add/Reno	N/A	308 Students 2 Stories	330-Students 2 Stories	264-Students 2 Stories
New Add/Reno	N/A	330 Students 2.5 Stories	330 Students 2.5-3 Stories	330 Students 2.5 Stories
New Add/Reno	N/A	425 Students 3 Stories	425 Students 3 Stories	425 Students 3 Stories

**HARDY ELEMENTARY SCHOOL  
NEW ADDITION/RENOVATION  
330 STUDENTS; 2 STORIES**

**Description of Option**

The New Renovation-Addition Option renovates the existing 15,116 GSF historic building as the only existing building component worthy of being reused, most likely as kindergarten or administration spaces. This option will require the relocation of the students and staff to accommodate the construction of the larger 43,129 GSF new “addition” on the footprint of the existing building. This option locates the large new addition generally where the site contours begin to drop off but most likely disrupts ball fields due to site constraints.



**Conceptual Site Plan**

Limited improvements to parking and traffic can be made in this option – if additional parking is located towards the back of the site additional playing fields will be disrupted or lost. Permitting and traffic concerns will be a challenge for this option if selected.

PROS

- Neighborhood school under current districting
- Possible access from Lawrence Road
- Possible to save old Hardy building
- Increases population in event of future growth

CONS

- Does not resolve traffic concerns regarding Town's "natural boundaries"
- Phasing challenges
- Smaller inefficient school
- Potential loss of some fields
- Requires full perimeter access for emergency vehicles
- Renovate original Hardy school
- Drop-off pick-up issues remain

The SFC has determined the 330 student option should be further reviewed.

**HUNNEWELL ELEMENTARY SCHOOL  
ADDITION/RENOVATION  
330 STUDENTS; 2.5 - 3 STORIES**

**Description of Option**

The Renovation-Addition Option renovates the existing 22,687 GSF historic building and the 1994 addition as the only existing building components worthy of being reused. This option will require the relocation of the students and staff to accommodate the construction of the larger 35,558 GSF new classroom and gymnasium on the footprint of the existing 1950's classroom wing. This option locates the large multistory classroom addition generally where the site contours begin to drop off connecting the historic main school with the 1994 addition in a more useful and efficient manor while providing appropriate 21<sup>st</sup> century learning environment and spaces to meet the curriculum needs of the District.



**Conceptual Site Plan**

Limited improvements to parking and traffic can be made in this option – no additional parking can be located towards the back of the site due to flood plain and riverfront setback requirements. Additional playing fields and play space can be recaptured with the removal of the temporary modular classrooms. Permitting and traffic concerns will be a challenge for this option if selected.

The Hunnewell Site holds the only Elementary School located South of Washington Street and provides coverage for this District in Wellesley. Closing the Hunnewell School will increase traffic congestion to other elementary schools within the district. Parking will be relieved by constructing parking below the new addition if feasible.

#### PROS

- Rebuilds school in this part of district
- Historic character maintained
- Maximizes use of “Town” land w/library
- Eliminates modulars
- Uses 1995 addition
- Maintains protection plan for Fuller Brook
- Increases population in event of future growth

#### CONS

- Parking concerns
- Complex permitting
- Complex renovation
- 330 students, 2½ section school is slightly less efficient and less desirable

The SFC has determined the 330 student option should be further reviewed.

**UPHAM ELEMENTARY SCHOOL  
NEW SCHOOL  
330 STUDENTS**

**Description of Option**

The challenges of using the existing Upham School in all scenarios including the “replacement” option prompted the study of an all new 58,245 GSF building. This option will not require the relocation of the students and staff to accommodate the construction of the larger footprint behind the existing building. This option anticipates a small two story building with room for expansion.



**Conceptual Site Plan**

A new Upham School can be constructed in a single phase on the forested land behind the existing school. The site has the ability to be accessed from two directions improving safety, traffic and security. Ledge removal and additional permitting time should be anticipated and improved drop off and parking can be accommodated at the front of the school with field and play space access resolved in this option. The existing little league field is anticipated to remain.

PROS

- Easy to build new behind existing
- Access to site from multiple points
- Larger queuing length for buses and cars
- Full perimeter access is achievable

CONS

- 330 students, 2½ section school is slightly less efficient and less desirable
- Small core limits future expansion potential

The SFC has determined the 330 student option should be further reviewed.

**HARDY ELEMENTARY SCHOOL  
NEW ADDITION/RENOVATION  
425 STUDENTS; 3 STORIES**

**Description of Option**

The New Renovation-Addition Option renovates the existing 15,116 GSF historic building as the only existing building component worthy of being reused, most likely as kindergarten or administration spaces. This option will require the relocation of the students and staff to accommodate the construction of the larger 55,184 GSF new “addition” on the footprint of the existing building. This option locates the large new addition generally where the site contours begin to drop off but still disrupts ball fields due to site constraints.



**Conceptual Site Plan**

Limited improvements to parking and traffic can be made in this option – if additional parking is located towards the back of the site additional playing fields will be disrupted or lost. Permitting and traffic concerns will be a challenge for this option if selected.

PROS

- Neighborhood school under current districting
- Possible access from Lawrence Road
- Possible to save old Hardy building
- Increases population in event of future growth

CONS

- Does not resolve traffic concerns regarding Town's "natural boundaries"
- Phasing challenges
- 425 students, 3 section school is slightly more efficient still less desirable
- Potential loss of some fields
- Requires full perimeter access for emergency vehicles
- Renovate original Hardy school
- Drop-off pick-up issues remain

The SFC has determined the 425 student option should be further reviewed.

**HUNNEWELL ELEMENTARY SCHOOL  
ADDITION/RENOVATION  
425 STUDENTS; 2.5 - 3 STORIES**

**Description of Option**

The Renovation-Addition Option renovates the existing 22,687 GSF historic building and the 1994 addition as the only existing building components worthy of being reused. This option will require the relocation of the students and staff to accommodate the construction of the larger 47,613 GSF new classroom and gymnasium on the footprint of the existing 1950's classroom wing. This option locates the large multistory classroom addition generally where the site contours begin to drop off connecting the historic main school with the 1994 addition in a more useful and efficient manor while providing appropriate 21<sup>st</sup> century learning environment and spaces to meet the curriculum needs of the District.



**Conceptual Site Plan**

Limited improvements to parking and traffic can be made in this option – no additional parking can be located towards the back of the site due to flood plain and riverfront setback requirements. Additional playing fields and play space can be recaptured with the removal of the temporary modular classrooms. Permitting and traffic concerns will be a challenge for this option if selected.

The Hunnewell Site holds the only Elementary School located South of Washington Street and provides coverage for this district in Wellesley. Closing the Hunnewell School will increase traffic congestion to other elementary schools within the district. Parking will be relieved by constructing parking below the new addition if feasible.

#### PROS

- Rebuilds school in this part of district
- Historic character maintained
- Maximizes use of “Town” land w/library
- Eliminates modulars
- Uses 1995 addition
- Maintains protection plan for Fuller Brook
- Increases population in event of future growth

#### CONS

- Parking concerns
- Complex permitting
- Complex renovation
- 425 students, 3 section school is slightly more efficient but still less desirable

The SFC has determined the 425 student option should be further reviewed.

**UPHAM ELEMENTARY SCHOOL  
NEW SCHOOL  
425 STUDENTS**

**Description of Option**

The challenges of using the existing Upham School in all scenarios including the “replacement” option prompted the study of an all new 70,330 GSF building. This option will not require the relocation of the students and staff to accommodate the construction of the larger footprint behind the existing building. This option anticipates a small two story building with room for expansion.



**Conceptual Site Plan**

A new Upham School can be constructed in a single phase on the forested land behind the existing school. The site has the ability to be accessed from two directions improving safety, traffic and security. Ledge removal and additional permitting time should be anticipated and Improved drop off and parking can be accommodated at the front of the school with field and play space access resolved in this option. The existing little league field is anticipated to remain.

PROS

- Easy to build new behind existing
- Access to site from multiple points
- Larger queuing length for buses and cars
- Full perimeter access is achievable
- Building can be designed for easy future expansion

CONS

- 425 students, 3 section school is slightly more efficient but still less desirable
- Loss of forest
- Potential loss of some fields
- Site blasting – Geometry for moving baseball/softball is a challenge

The SFC has determined the 425 student option should be further reviewed.

## 2.2 Planning Options

	North 40		Hardy		Hunnewell		Upham	
New		660 Students 3 Stories		660 Students 3 Stories				660 Students 3 Stories
New		536 Students 2.5-3 Stories		536 Students 3 Stories		536 Students 3 Stories		536 Students 2.5-3 Stories
Add/Reno				536 Students 3 Stories		536 Students 2.5-3 Stories		536 Students 2.5 Stories
Add/Reno						425 Students 2 Stories		425 Students 2 Stories
Add/Reno				Historic Renovation Only (no students)		314 Students 2 Stories		283 Students 1.5-2 Stories
“New”				308 Students		330 Students		264 Students
Repairs Only				308 Students		330 Students		264 Students
Add/Reno “New”				330 & 425 Students		330 & 425 Students		330 & 425 Students

Multiple planning options were investigated, including many variations of student populations and building/site constraints. The intent was to provide an exhaustive array for the School Facilities Committee to evaluate on their own individual “project” merits, but also to create multiple scenarios that take into account one, two or three projects in unison.

After thorough analysis, the School Facilities Committee was able to weigh the impacts of the site options’ physical constraints of building and site, with potential concerns for permitting, saving of historic structures, and topography or wetland/floodplain impacts. The following summarizes those findings by school:

**Hardy**

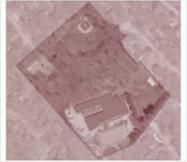
The site is large enough to accommodate the construction of an all new school behind the existing school while retaining the “historic” original building. An addition/renovation scenario is also possible if the students can be removed from the building/site.

**Hunnewell**

The site is too small to save the “historic” original school and build an all new school but an addition renovation can similarly be achieved if the students are removed from the site.

**Upham**

The existing school is not feasible for major additions due to its physical constraints, but the site easily accommodates a new structure behind the existing.

	Hardy	Hunnewell	Upham	North 40
New	Yes 	No 	Yes 	Yes 
Renovation /Addition	Yes 	Yes 	No 	N/A

Multiple Master Plan Scenarios were then developed using the above select Options, which are described in Section 3.

## Section Three

# Master Plan Scenarios

### 3.1 School Facilities Committee Consensus Points

1. Concern for using low 3 school enrollment figures (850 vs 1,100).
2. Strongly prefer 2 school scenarios – i.e. close one building.
3. Phase one will be a new building not resulting in need to relocate students' with modular.
  - Saves time
  - Saves money
  - Less disruptive educationally
4. Hardy school site and North 40 site are “connected”.
  - Use of North 40 site would result in closure of Hardy School
5. Concern for closing Hunnewell from Town geography and districting perspective.
6. Expansion of Upham building not possible due to site and building/ educational limitations.
  - New structure more rational

### 3.2 Preliminary Master Plan Scenarios

The Planning Options were combined into a preliminary listing of Master Plan Scenarios, see chart below, which were reviewed prior to cost estimating. The scenarios were reviewed relative to population capacity, phasing, traffic and access.

Further Study	North 40 Site	Hardy Elementary	Hunnewell Elementary	Upham Elementary	Population
1.	New School 536 ST 81,722 N	Renovation & Addition 314 ST 15,116 R + 40,884 N	Close	Close	850
2.	New School 536 ST 81,722 N	Close	Renovation & Addition 314 ST 22,687 R + 32,313 A*	Close	850
3.	New School 536 ST 81,722 N	Close	Close	New School 425 ST 70,300 N	961
4.	New School 536 ST 81,722 N	New School 425 ST 70,300 N Renovation Historic Only 15,116 R	Close	Close	961
5.	New School 536 ST 81,722 N	Renovation Historic Only 15,116 R	Renovation & Addition 425 ST 22,687 R + 47,613 A*	Close	961
<b>For conceptual estimating (1,100 students combined capacity)</b>					
6.	New School 660 ST 95,700 N	Close	Renovation & Addition 425 ST 22,687 R + 47,613 A*	Close	1,085
7.	New School 536 ST 81,722 N	Close	Close	Renovation & Addition 536 ST 34,000R + 47,722 A**	1,072
8.	N/A	New School 536 ST 81,722 N	Renovation & Addition 536 ST 18,917R + 62,805 N**	Close	1,072
9.	N/A	New School 660 ST 95,700 N** Renovation Historic Only 15,116 R	Close	New School 536 ST 81,722 N	1,190
10.	N/A	New School 308 ST 40,153 N** Renovation Historic Only 15,116 R	Renovation & Addition 330 ST 22,687R + 35,558 N** 58,245 GSF	New School 264 ST 47,523 N	902

\*Additions may increase due to existing building inefficiencies, additional SPED space, or unique site conditions

\*\*Building size to be verified with site constraints

Reflects actions prior to December 2015.

Added Scenarios 9 and 10 for cost estimating after December 2015.

Scenario	North 40 Site	Hardy	Hunnewell	Upham	Population	Construction Cost Total*	Construction Cost/Student
1	<b>New School</b> 660-Students 95,700 GSF New  \$ 35,620,734	<b>Close School</b> Renovation (Historic Only) 15,116 GSF Renovation \$ 6,556,522	<b>Renovation &amp; Addition</b> 425-Students 47,613 GSF Addition 22,687 GSF Renovation \$ 32,704,077	<b>Close School</b>	1,085	\$ 68,324,811  166,000 SF	\$ 62,972
	<b>New School</b> 536-Students 81,722 GSF \$ 31,820,807	<b>Close School</b>	<b>Close School</b>	<b>New School</b> 536-Students 81,722 GSF New \$ 35,204,701	1,072	\$ 67,025,508  163,444 SF	\$ 62,524
3	N/A	<b>New School</b> 536-Students 81,722 GSF New \$ 31,993,171 (Historic Renovation) 15,116 GSF Renovation \$ 6,556,522**	<b>Renovation &amp; Addition</b> 425-Students 47,613 GSF Addition 22,687 GSF Renovation  \$ 27,012,360	<b>Close School</b>	961	**\$ 59,005,531  152,022 SF	\$ 61,400
	N/A	<b>New School</b> 660-Students 95,700 GSF New \$ 35,900,517	<b>Close School</b>	<b>New School</b> 536-Students 81,722 GSF New \$ 35,204,701	1,196	\$ 71,105,218  177,422 SF	\$ 59,453
5	N/A	<b>Close School</b>	<b>Renovation &amp; Addition</b> 425-Students 47,613 GSF Addition 22,687 GSF Renovation \$ 27,012,360	<b>New School</b> 536-Students 81,722 GSF New \$ 35,204,701	961	\$ 62,217,061  152,022 SF	\$ 64,741
	N/A	<b>New School</b> 660-Students 95,700 GSF 15,116 GSF Renovation (Historic Only)** \$ 41,386,163	<b>New School</b> 536-Students 81,722 GSF New \$ 36,636,300	<b>Renovation &amp; Addition</b> 536-Students 57,241 GSF Addition 24,481 GSF Renovation \$ 35,022,733	1,732	\$ 113,045,196  274,260 SF	\$ 65,268
7	<b>Two Phases Summer Construction</b> N/A	<b>Renovation &amp; Modular</b> 306 Students; 45,909 GSF \$ 15,331,791	<b>Renovation &amp; Modular</b> 299 Students; 36,441 GSF \$ 11,736,510	<b>Renovation &amp; Modular</b> 243 Students; 36,481 GSF \$ 11,200,481	902	\$ 38,268,782  118,831 SF	\$ 42,427
	<b>Single Phase Summer Construction</b> N/A	<b>Repairs</b> \$ 13,937,992 30 Modulares \$ 4,717,137 \$ 18,655,129***	<b>Repairs</b> \$ 10,669,554 30 Modulares \$ 4,717,137 \$ 15,386,691***	<b>Repairs</b> \$ 10,182,256 30 Modulares \$ 4,717,137 \$ 14,899,393***	902	\$ 48,941,213  118,831 SF	\$ 54,259
8	N/A	<b>Mostly New</b> 306 students \$ 22,203,414	<b>Renovation &amp; Addition</b> 299 students \$ 24,109,260	<b>New School</b> 243 students \$ 26,919,504	902	\$ 73,232,178  160,921 SF	\$ 81,189
	N/A	<b>Mostly New</b> 330 students \$ 27,658,892	<b>Renovation &amp; Addition</b> 330 students \$ 24,109,260	<b>New School</b> 330 students \$ 28,225,470	990	\$ 79,993,622  174,735 SF	\$ 80,802
10	N/A	<b>Mostly New</b> 425 students \$ 30,082,675	<b>Renovation &amp; Addition</b> 425 students \$ 27,012,360	<b>New School</b> 425 students \$ 31,485,842	1,275	\$ 88,580,877  210,900 SF	\$ 69,645

NOTE:

\*Construction cost estimated to construction start spring 2016.

\*\*Renovation cost for Historic Hardy School for reference only – not carried in final costs.

\*\*\* Modular cost will be reduced by redundant installation and phase out cost based on Final Master Plan sequence.

Options 8 & 9 Hardy: The cost difference is in the amount of site work. The 306 Option reflects only the site work to support the addition with the rest of the site remaining as-is while the 330 Option reflects full site work.

Option 1 Hunnewell: The cost difference includes the Cameron St. parking garage.

Master Plan Scenario Nine



**Wellesley North 40 Site**  
n/a

Hardy ES



**Mostly New**  
330-Students; 58,245 GSF  
43,129 GSF New  
15,116 GSF Renovation

Hunnewell ES



**Renovation & Addition**  
330-Students; 58,245 GSF  
35,558 GSF New  
22,687 GSF Renovation

Upham ES



**New School**  
330-Students; 58,245 GSF

Master Plan Scenario Ten



**Wellesley North 40 Site**  
n/a

Hardy ES



**Mostly New**  
425-Students; 70,330 GSF  
55,184 GSF New  
15,116 GSF Renovation

Hunnewell ES



**Renovation & Addition**  
425-Students; 70,330 GSF  
47,613 GSF New  
22,687 GSF Renovation

Upham ES



**New School**  
425-Students; 70,330 GSF

## Section Four Schedule and Cost Analysis

### 4.1 Master Plan Schedule

The overall project schedules for Masterplan Scenarios 9 and 10 were developed with an understanding that the Town would appropriate the funding to commence Feasibility and Schematic Design in spring 2016. The schedule incorporates anticipated detailed design and construction durations for each, as well as their coincident funding appropriations.

Generally, Scenarios 9 and 10, have a similar schedule as Scenario 8 that is three successive 2 year construction projects taking a total of six years with Hunnewell opening in the 2023/2024 school year.

Date: August 27, 2015  
(Updated December 29, 2015)

**WELLESLEY PUBLIC SCHOOLS**  
**HARDY, HUNNEWELL AND UPHAM ELEMENTARY SCHOOLS STUDY**  
WELLESLEY, MASSACHUSETTS

PRELIMINARY PROJECT SCHEDULE

ID	Task Name	Start	Finish	2016	2017	2018	2019	2020	2021	2022	2023	2024
1	<b>SCENARIO 3: New Hardy, Reno/Add Hunnewell, Close Upham</b>	4/1/2016	10/31/2022									
2	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
3	Feasibility and Schematic Design	5/1/2016	3/31/2017		3/31/2017							
4	Appropriate Detailed Design and Construction Funding	4/1/2017	5/31/2017		5/31/2017							
5	Detailed Design and Permitting	6/1/2017	12/31/2018				12/31/2018					
6	Bidding / GMP	1/1/2019	3/29/2019				3/29/2019					
7	Construction - New Hardy Elementary School - 18 months	12/1/2018	6/30/2020					6/30/2020				
8	Occupy New Hardy	7/1/2020	8/28/2020					8/28/2020				
9	Relocate Hunnewell Students to New Hardy	6/30/2020	7/30/2020					7/30/2020				
10	Renovation and Addition - Hunnewell Elementary School - 18 months	7/1/2020	12/1/2021							12/1/2021		
11	Occupy Hunnewell	7/1/2022	8/30/2022								8/30/2022	
12	Close Upham	7/1/2022	7/1/2022								7/1/2022	
13	Demolish old Hardy	7/1/2022	10/31/2022									10/31/2022
14												
15	<b>SCENARIO 5: New Upham, Reno/Add Hunnewell, Close Hardy</b>	4/1/2016	10/28/2022									
16	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
17	Feasibility and Schematic Design	5/1/2016	3/31/2017		3/31/2017							
18	Appropriate Detailed Design and Construction Funding	4/1/2017	5/31/2017		5/31/2017							
19	Detailed Design and Permitting	6/1/2017	12/28/2018				12/28/2018					
20	Bidding / GMP	1/1/2019	3/29/2019				3/29/2019					
21	Construction - New Upham Elementary School - 20 months	10/1/2018	6/30/2020					6/30/2020				
22	Occupy New Upham Elementary School	7/1/2020	8/28/2020					8/28/2020				
23	Relocate Hunnewell Students to New Upham	6/30/2020	7/30/2020					7/30/2020				
24	Renovation and Addition - Hunnewell - 18 months	7/1/2020	12/1/2021							12/1/2021		
25	Occupy Hunnewell	7/1/2022	8/30/2022								8/30/2022	
26	Close Hardy	7/1/2022	7/1/2022								7/1/2022	
27	Demolish old Upham	7/1/2022	10/28/2022									10/28/2022
28												
29	<b>SCENARIO 7A: Repair only Hardy, Hunnewell and Upham</b>	4/1/2016	10/20/2022									
30	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
31	Feasibility and Schematic Design	5/1/2016	3/31/2017		3/31/2017							
32	Appropriate Detailed Design and Construction Funding	4/1/2017	5/31/2017		5/31/2017							
33	Detailed Design and Permitting	6/1/2017	6/1/2018				6/1/2018					
34	Bidding / GMP	6/1/2018	8/31/2018				8/31/2018					
35	Temporary Modular Fabrication and Install	6/1/2018	5/31/2019				5/31/2019					
36	Relocate Hardy students to modulators	6/20/2019	7/19/2019				7/19/2019					
37	Repairs - Hardy - 12 months	7/20/2019	7/20/2020					7/20/2020				
38	Relocate Hunnewell students to modulators	7/20/2020	8/20/2020					8/20/2020				
39	Repairs - Hunnewell - 12 months	7/20/2020	7/20/2021							7/20/2021		
40	Relocate Upham students to modulators	7/20/2021	8/20/2021							8/20/2021		
41	Repairs - Upham - 12 months	7/20/2021	7/20/2022								7/20/2022	
42	Remove Modulators	6/20/2022	10/20/2022									10/20/2022
43												

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**WELLESLEY PUBLIC SCHOOLS  
HARDY, HUNNEWELL AND UPHAM ELEMENTARY SCHOOLS STUDY**  
WELLESLEY, MASSACHUSETTS

**PRELIMINARY PROJECT SCHEDULE**

ID	Task Name	Start	Finish	2016	2017	2018	2019	2020	2021	2022	2023	2024
44	<b>SCENARIO 8: New Upham, Mostly New Hardy, Reno/Add Hunnewell</b>	4/1/2016	10/31/2023									
45	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
46	Feasibility and Schematic Design	5/2/2016	4/3/2017									
47	Appropriate Detailed Design and Construction Funding	4/3/2017	6/1/2017									
48	Detailed Design and Permitting	6/1/2017	12/28/2018									
49	Bidding / GMP	1/1/2019	3/29/2019									
50	Construction - New Upham Elementary School - 20 months	10/1/2018	6/30/2020									
51	Occupy New Upham Elementary School	7/1/2020	8/28/2020									
52	Relocate Hardy Students to New Upham ES	6/30/2020	7/30/2020									
53	Construction - Mostly New Hardy Elementary School - 18 months	7/1/2020	12/1/2021									
54	Relocate Hunnewell Students to New Hardy ES	12/1/2021	12/30/2021									
55	Renovation and Addition - Hunnewell - 18 months	12/30/2021	6/30/2023									
56	Occupy Hunnewell	7/3/2023	8/31/2023									
57	Demolish old Upham	7/3/2023	10/31/2023									
58												
59	<b>SCENARIO 9: New Upham, Mostly New Hardy, Reno/Add Hunnewell</b>	4/1/2016	10/31/2023									
60	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
61	Feasibility and Schematic Design	5/2/2016	4/3/2017									
62	Appropriate Detailed Design and Construction Funding	4/3/2017	6/1/2017									
63	Detailed Design and Permitting	6/1/2017	12/28/2018									
64	Bidding / GMP	1/1/2019	3/29/2019									
65	Construction - New Upham Elementary School - 20 months	10/1/2018	6/30/2020									
66	Occupy New Upham Elementary School	7/1/2020	8/28/2020									
67	Relocate Hardy Students to New Upham ES	6/30/2020	7/30/2020									
68	Construction - Mostly New Hardy Elementary School - 18 months	7/1/2020	12/1/2021									
69	Relocate Hunnewell Students to New Hardy ES	12/1/2021	12/30/2021									
70	Renovation and Addition - Hunnewell - 18 months	12/30/2021	6/30/2023									
71	Occupy Hunnewell	7/3/2023	8/31/2023									
72	Demolish old Upham	7/3/2023	10/31/2023									
73												
74	<b>SCENARIO 10: New Upham, Mostly New Hardy, Reno/Add Hunnewell</b>	4/1/2016	10/31/2023									
75	Appropriate Feasibility and Schematic Design Funding	4/1/2016	4/29/2016									
76	Feasibility and Schematic Design	5/2/2016	4/3/2017									
77	Appropriate Detailed Design and Construction Funding	4/3/2017	6/1/2017									
78	Detailed Design and Permitting	6/1/2017	12/28/2018									
79	Bidding / GMP	1/1/2019	3/29/2019									
80	Construction - New Upham Elementary School - 20 months	10/1/2018	6/30/2020									
81	Occupy New Upham Elementary School	7/1/2020	8/28/2020									
82	Relocate Hardy Students to New Upham ES	6/30/2020	7/30/2020									
83	Construction - Mostly New Hardy Elementary School - 18 months	7/1/2020	12/1/2021									
84	Relocate Hunnewell Students to New Hardy ES	12/1/2021	12/30/2021									
85	Renovation and Addition - Hunnewell - 18 months	12/30/2021	6/30/2023									
86	Occupy Hunnewell	7/3/2023	8/31/2023									
87	Demolish old Upham	7/3/2023	10/31/2023									

## 4.2 Master Plan Costs

Masterplan Scenarios 9 and 10 construction costs were escalated to their Master Plan Sequence.

The following assumptions were utilized in the estimates:

- Cost Escalation is assumed to be 3.5% per year
- Indirect Costs, including potential PSI required off-site work, to be 38% of escalated construction costs

**Master Plan Scenario 9** has a construction cost of \$91.8 million and a project cost of \$126.7 million.

**Master Plan Scenario 10** has a construction cost of \$101.6 million and a project cost of \$140.3 million.

<b>Scenario 3 - New Hardy, Reno/Add Hunnewell, Close Upham</b>									
	Construction Cost (based on construction start Q2 2016)	Yearly Escalation	Q2 2017	Q2 2018	Q2 2019	Q2 2020	Q4 2018	Total Escalated Construction Cost	Total Project Cost
New Hardy ES	\$31,993,171	3.5%	\$33,112,932	\$34,271,885	\$34,957,322		\$34,957,322		
Reno/Add Hunnewell ES (w/ 20 space parking garage)	\$27,012,360 \$59,005,531	3.5%	\$27,957,793	\$28,936,315	\$29,949,086	\$30,997,304		\$30,997,304	\$91,017,385
<b>Scenario 5 - New Upham, Reno/Add Hunnewell, Close Hardy</b>									
	Construction Cost (based on construction start Q2 2016)	Yearly Escalation	Q2 2017	Q2 2018	Q2 2019	Q2 2020	Q4 2018	Total Escalated Construction Cost	Total Project Cost
New Upham ES	\$35,204,701	3.5%	\$36,436,866	\$37,712,156	\$38,466,399		\$38,466,399		
Reno/Add Hunnewell ES (w/ 20 space parking garage)	\$27,012,360 \$62,217,061	3.5%	\$27,957,793	\$28,936,315	\$29,949,086	\$30,997,304		\$30,997,304	\$95,859,911
<b>Scenario 7A - Repair Only Hardy, Hunnewell and Upham</b>									
	Construction Cost (based on construction start Q2 2016)	Yearly Escalation	Q2 2017	Q2 2018	Q2 2019	Q2 2020	Q2 2021	Total Escalated Construction Cost	Total Project Cost
Temporary Modularity*	\$6,217,137	3.5%	\$6,434,737	\$6,659,953				\$6,659,953	
Repair Hardy ES	\$13,937,992	3.5%	\$14,425,822	\$14,930,725	\$15,453,301			\$15,453,301	
Repair Hunnewell ES	\$10,669,554	3.5%	\$11,042,988	\$11,429,493	\$11,829,525	\$12,243,559		\$12,243,559	
Repair Upham ES	\$10,182,256 \$41,006,939	3.5%	\$10,538,635	\$10,907,487	\$11,289,249	\$11,684,373	\$12,093,326	\$12,093,326	\$64,101,191

\*cost includes additional \$1,000,000 for full 3 year lease and additional \$500,000 for distributed sitework



Section Five  
Appendix

Construction Cost Estimate  
January 5, 2016



Wellesley Elementary Schools  
Hardy, Hunnewell, Upham and North 40 Site  
Wellesley, MA

January 5, 2016

## Concept Design Options Estimate

**Option 9 and 10**

**Design Architect:**

SMMA

1000 Massachusetts Avenue  
Cambridge, MA 02138

**Estimator:**

Daedalus Projects Incorporated

112 South Street  
Boston, MA 02111  
(617) 451 2717

## INTRODUCTION

### Project Description:

- Three (3) Existing Elementary School Sites, Hardy, Hunnewell & Upham Schools, and One (1) New Site Called "North 40"
- This project has various options

### Options:

- This Estimate analysis the following Options:
  - North 40 Site: New School for 660 Students
  - North 40 Site: New School for 536 Students
  - Hardy: Renovation (Historic Only)
  - Hardy: New School for 536 Students
  - Hardy: New School for 660 Students
  - Hardy: Historic Only & New for 660 Students
  - Hardy: Historic Only & Addition 308 Students
  - Hardy: "Repair Only" 308 Students
  - Hardy: Historic Only & New for 330 Students
  - Hardy: Historic Only & New for 425 Students
  - Hunnewell: Renovation & Addition 425 Students with Cameron Street Garage
  - Hunnewell: Renovation & Addition 536 Students
  - Hunnewell: New School for 536 Students
  - Hunnewell: Renovation & Addition 330 Students
  - Hunnewell: "Repair Only" 330 Students
  - Hunnewell: Renovation & Addition 425 Students with Under Building Garage
  - Upham: New School for 536 Students
  - Upham: Renovation & Addition 536 Students
  - Upham: New School 264 Students
  - Upham: "Repair Only" 264 Students
  - Upham: New School 330 Students
  - Upham: New School 425 Students
- Public Roadway Extension at Hardy Elementary School: \$296,100

### Project Particulars:

- Drawings received June 2014 from SMMA
- Daedalus Projects, Inc. experience with similar projects of this nature
- Dollar rates are based on historical data and recent bid results on projects similar to these projects.
- See Daedalus estimate, dated June 17, 2015 for detail estimate of "Repair Only" options

## INTRODUCTION

### (Continued)

#### Project Assumptions:

- The project will be constructed by CM at Risk
- Unit rates are based on current dollars, using prevailing wages
- Project assumes a full gut renovation (except to the new construction projects and repair only projects) based on recent bid results of similar size and type
- Sitework based on on-site utilities and not on any off site utilities
- Escalation to start  
This project has
- Escalation during construction duration has been included in the unit rate details
- Subcontractor's markups have been included in each unit rate. Markups cover the cost of field overhead home office overhead home office overhead and subcontractor's profit
- Contractor's Construction Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications
- General Conditions and Requirements value covers site management, scaffolding, staging and access, temporary protection, cleaning, SubContractor's General Conditions, site office overheads
- Insurance and Bonds markup is calculated on a percentage basis of direct construction costs. The value covers Contractor's Builder's Risk Insurance, General Liability, Sub-Contractor Bonds, and Performance Bond
- Fee markup is calculated on a percentage basis of direct construction costs

#### Project Exclusions:

- Work beyond the boundary of the site, such as any sitework improvements, traffic issues, etc.
- Owner's Project Administration
- Owner's Project Management (OPM) Fees
- Architectural/Engineering; Designer and other Professional fees, testing, printing, surveying
- Project costs; utility company back charges, construction of temporary facilities, relocation
- Testing
- Specialties, loose furnishings, fixtures and equipment beyond those noted
- Cost associated with demolition or "mothballing" of unused facilities

### Chart of Options

(including Wellesley College "North 40" Site)

Study	North 40 Site	Hardy Elementary	Hunnewell Elementary	Upham Elementary	Population	Cost Total	Cost/Student
1.	New School 660-Students 95,700 GSF New \$35,620,734	Close School Renovation (Historic Only) 15,116 GSF Renovation \$6,768,117 **	Renovation & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation \$32,704,077	Close	1,085	166,000 GSF	
2.	New School 536-Students 81,722 GSF \$31,820,807	Close	Close	New School 536-Students 81,722 GSF New \$35,204,701	1,072	\$68,324,811 163,444 GSF	\$62,972
3.	N/A	New School 536-Students 81,722 GSF New \$31,993,171 Renovation (Historic Only) 15,116 GSF Renovation \$6,768,117 **	Renovation & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation \$27,012,360	Close	961	\$67,025,508 152,022 GSF	\$62,524
4.	N/A	New School 660-Students 95,700 GSF New \$35,900,517	Close	New School 536-Students 81,722 GSF New \$35,204,701	1,196	\$59,005,531 177,422 GSF	\$61,400
5.	N/A	Close	Renovation & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation \$27,012,360	New School 536-Students 81,722 GSF New \$35,204,701	961	\$71,105,218 152,022 GSF	\$59,453
6.	N/A	New School 660-Students 95,700 GSF Renovation (Historic Only) 15,116 GSF Renovation \$41,386,163	New School 536-Students 81,722 GSF New	Renovation & Addition 536-Students 57,241 GSF Addition 24,481 GSF Renovation \$35,204,701	1,732	\$62,217,061 274,260 GSF	\$64,742
7.	Two Phases Summer Construction N/A	Renovation & Modular 308-Students 45,909 GSF \$15,331,791	Renovation & Modular 330-Students 36,441 GSF \$11,736,510	Renovation & Modular 264-Students 36,481 GSF \$11,200,481	902	\$113,045,196 118,831 GSF	\$65,269
7a.	Single Phase Summer Construction N/A	Renovation & Modular 308-Students 45,909 GSF \$13,937,992 30 Modulars \$4,717,137 ***	Renovation & Modular 330-Students 36,441 GSF \$10,669,554 30 Modulars \$4,717,137 ***	Renovation & Modular 264-Students 36,481 GSF \$10,182,256 30 Modulars \$4,717,137 ***	902	\$38,268,782 118,831 GSF	\$42,427
8.	N/A	Renovation & Addition 308-Students 40,037 GSF New Renovation (Historic Only) 15,116 GSF Renovation \$21,682,330 1.5Yr Leased Modular (1) Classm \$521,084	Renovation & Addition 330-Students 35,558 GSF New 22,687 GSF Renovation \$24,109,260	New School 264-Students 47,523 GSF New \$25,292,293 3Yr Leased Modular (3) Classrms \$1,627,211	902	***\$48,941,213 160,921 GSF	\$54,259
						\$73,232,178	\$81,189

Chart of Options  
(including Wellesley College "North 40" Site)

Study	North 40 Site	Hardy Elementary	Hunnewell Elementary	Upham Elementary	Population	Cost Total	Cost/Student
9.	N/A	Renovation & Addition 330-Students 43,129 GSF New Renovation (Historic Only) 15,116 GSF Renovation \$27,658,892	Renovation & Addition 330-Students 35,558 GSF New 22,687 GSF Renovation \$24,109,260	New School 330-Students 58,245 GSF New \$28,225,470	990	174,735 GSF	
10.	N/A	Renovation & Addition 425-Students 55,184 GSF New Renovation (Historic Only) 15,116 GSF Renovation \$30,082,675	Renovation & Addition 425-Students 47,613 GSF New 22,687 GSF Renovation \$27,012,360	New School 425-Students 70,300 GSF New \$31,485,842	1,275	\$79,993,622 210,900 GSF	\$80,802 \$69,475
						\$88,580,877	

\*\* Renovation Cost For Historic Hardy School For Reference Only - Not Carried In Final Cost  
\*\*\* Modular Cost Will Be Reduced By Redundant Install and Removal Cost Based On Final Master Plan Sequence

**MAIN SUMMARY**

Description:	North 40 Site: New School 660-Students 95,700 GSF New		North 40 Site: New School 536-Students 81,722 GSF New		Hardy: Renovation (Historic) 15,116 GSF Renovation	
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF
<b>New Construction GSF:</b>						
<b>Renovation GSF:</b>						
<b>New and Renovation GSF:</b>						
<b>Area of Demolition GSF:</b>						
					30,793 GSF	
<b>Direct Trade Costs</b>						
New Building Trade Costs	\$23,471,048	\$245.26	\$20,427,694	\$249.97		
Site Development Costs	\$5,057,432	\$52.85	\$5,057,432	\$61.89		
Additional Sitework						
Storm Water System						
Earthwork/Ledge Removal						
Building Demolition					\$161,663	\$10.69
Building Trade Costs Renovation					\$4,009,447	\$265.25
Site Development Costs at Renovation (w/Add)					\$1,000,000	\$66.16
Parking Garage at Cameron Street Lot						
Underground Parking Garage (20 Spaces)						
<b>Direct Trade Cost SubTotal</b>	<b>\$28,528,480</b>	<b>\$298.10</b>	<b>\$25,485,126</b>	<b>\$311.85</b>	<b>\$5,171,110</b>	<b>\$342.10</b>
Construction Contingency 3.00%	\$855,854	\$8.94	\$764,554	\$9.36		
Construction Contingency Renovation 5.00%					\$258,556	\$17.10
<b>Trade Cost SubTotal</b>	<b>\$29,384,334</b>	<b>\$307.05</b>	<b>\$26,249,680</b>	<b>\$321.21</b>	<b>\$5,429,666</b>	<b>\$359.20</b>
General Conditions and Requirements 8.50%	\$2,497,669	\$26.10	\$2,231,230	\$27.30	\$461,530	\$30.53
Insurance 1.10%	\$350,703	\$3.66	\$313,291	\$3.83	\$64,804	\$4.29
GC Bonds 1.10%	\$354,560	\$3.70	\$316,737	\$3.88	\$65,516	\$4.33
Fee 3.00%	\$977,618	\$10.22	\$873,329	\$10.69	\$180,646	\$11.95
<b>Estimated Construction Cost Total</b>	<b>\$33,564,884</b>	<b>\$350.73</b>	<b>\$29,984,267</b>	<b>\$366.91</b>	<b>\$6,202,162</b>	<b>\$410.30</b>
Phasing 3.00%					\$186,065	\$12.31
Escalation to 2nd Quarter 2016 6.13%	\$2,055,850	\$21.48	\$1,836,540	\$22.47	\$379,890	\$25.13
<b>ECC including Escalation Total</b>	<b>\$35,620,734</b>	<b>\$372.21</b>	<b>\$31,820,807</b>	<b>\$389.38</b>	<b>\$6,768,117</b>	<b>\$447.75</b>

*\*Phasing Impact Can Be Deleted if North 40 is Phase 1*

**MAIN SUMMARY**

Description:	Hardy: New School 660-Students 95,700 GSF New		Hardy: New School 536-Students 81,722 GSF New		Hardy: New For 660-Students & Historic Renovation 95,700 GSF New 15,116 GSF Renovation 110,816 GSF	
	45,909 GSF		45,909 GSF		30,793 GSF	
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF
<b>Direct Trade Costs</b>						
New Building Trade Costs	\$23,471,048	\$245.26	\$20,427,694	\$249.97	\$23,471,048	\$245.26
Site Development Costs	\$3,500,038	\$36.57	\$3,500,038	\$42.83	\$3,500,038	\$31.58
Additional Sitework	\$750,000	\$7.84	\$750,000	\$9.18		
Storm Water System						
Earthwork/Ledge Removal						
Building Demolition	\$241,022	\$2.52	\$241,022	\$2.95	\$161,663	\$1.69
Building Trade Costs Renovation					\$4,009,447	\$265.25
Site Development Costs at Renovation (w/Add)					\$1,000,000	\$9.02
Parking Garage at Cameron Street Lot						
Underground Parking Garage (20 Spaces)						
<b>Direct Trade Cost SubTotal</b>	<b>\$27,962,108</b>	<b>\$292.19</b>	<b>\$24,918,754</b>	<b>\$304.92</b>	<b>\$32,142,196</b>	<b>\$290.05</b>
Construction Contingency 3.00%	\$838,864	\$8.77	\$747,563	\$9.15	\$809,133	\$7.30
Construction Contingency Renovation 5.00%		\$0.00		\$0.00	\$250,472	\$2.26
<b>Trade Cost SubTotal</b>	<b>\$28,800,972</b>	<b>\$300.95</b>	<b>\$25,666,317</b>	<b>\$314.07</b>	<b>\$33,201,801</b>	<b>\$299.61</b>
General Conditions and Requirements 8.50%	\$2,448,083	\$25.58	\$2,181,640	\$26.70	\$2,822,153	\$25.47
Insurance 1.10%	\$343,740	\$3.59	\$306,328	\$3.75	\$396,263	\$3.58
GC Bonds 1.10%	\$347,521	\$3.63	\$309,698	\$3.79	\$400,622	\$3.62
Fee 3.00%	\$958,210	\$10.01	\$853,920	\$10.45	\$1,104,625	\$9.97
<b>Estimated Construction Cost Total</b>	<b>\$32,898,526</b>	<b>\$343.77</b>	<b>\$29,317,903</b>	<b>\$358.75</b>	<b>\$37,925,464</b>	<b>\$342.24</b>
Phasing 3.00%	\$986,956	\$10.31	\$879,538	\$10.76	\$1,137,764	\$11.89
Escalation to 2nd Quarter 2016 6.13%	\$2,015,035	\$21.06	\$1,795,730	\$21.97	\$2,322,935	\$20.96
<b>ECC including Escalation Total</b>	<b>\$35,900,517</b>	<b>\$375.14</b>	<b>\$31,993,171</b>	<b>\$391.49</b>	<b>\$41,386,163</b>	<b>\$373.47</b>

*\*Phasing Impact Can Be Deleted if North 40 is P*

**MAIN SUMMARY**

Description:	Hardy: Reno. & Addition 308-Students 40,037 GSF Addition 15,116 GSF Renovation 55,153 GSF 30,793 GSF		Hardy: New School 330-Students 43,129 GSF Addition 15,116 GSF Renovation 58,245 GSF 30,793 GSF		Hardy: New School 425-Students 55,184 GSF Addition 15,116 GSF Renovation 70,300 GSF 30,793 GSF	
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF
<b>Direct Trade Costs</b>						
New Building Trade Costs	\$11,624,210	\$290.34	\$12,051,027	\$279.42	\$13,938,857	\$252.59
Site Development Costs			\$3,500,038	\$81.15	\$3,500,038	\$63.42
Additional Sitework			\$750,000	\$17.39	\$750,000	\$13.59
Storm Water System						
Earthwork/Ledge Removal						
Building Demolition	\$161,663	\$4.04	\$161,663	\$3.75	\$161,663	\$2.93
Building Trade Costs Renovation	\$4,009,447	\$265.25	\$4,009,447	\$265.25	\$4,009,447	\$265.25
Site Development Costs at Renovation (w/Add)	\$1,000,000	\$18.13	\$1,000,000	\$17.17	\$1,000,000	\$14.22
Parking Garage at Cameron Street Lot						
Underground Parking Garage (20 Spaces)						
<b>Direct Trade Cost SubTotal</b>	<b>\$16,795,320</b>	<b>\$304.52</b>	<b>\$21,472,175</b>	<b>\$368.65</b>	<b>\$23,360,005</b>	<b>\$332.29</b>
Construction Contingency 3.00%	\$348,726	\$6.32	\$466,532	\$8.01	\$523,167	\$7.44
Construction Contingency Renovation 5.00%	\$250,472	\$4.54	\$250,472	\$4.30	\$250,472	\$3.56
<b>Trade Cost SubTotal</b>	<b>\$17,394,518</b>	<b>\$315.39</b>	<b>\$22,189,179</b>	<b>\$380.96</b>	<b>\$24,133,644</b>	<b>\$343.30</b>
General Conditions and Requirements 8.50%	\$1,478,534	\$26.81	\$1,886,080	\$32.38	\$2,051,360	\$29.18
Insurance 1.10%	\$207,604	\$3.76	\$264,828	\$4.55	\$288,035	\$4.10
GC Bonds 1.10%	\$209,887	\$3.81	\$267,741	\$4.60	\$291,203	\$4.14
Fee 3.00%	\$578,716	\$10.49	\$738,235	\$12.67	\$802,927	\$11.42
<b>Estimated Construction Cost Total</b>	<b>\$19,869,259</b>	<b>\$360.26</b>	<b>\$25,346,063</b>	<b>\$435.16</b>	<b>\$27,567,169</b>	<b>\$392.14</b>
Phasing 3.00%	\$596,078	\$14.89	\$760,382	\$17.63	\$827,016	\$14.99
Escalation to 2nd Quarter 2016 6.13%	\$1,216,993	\$22.07	\$1,552,447	\$26.65	\$1,688,490	\$24.02
<b>ECC including Escalation Total</b>	<b>\$21,682,330</b>	<b>\$393.13</b>	<b>\$27,658,892</b>	<b>\$474.87</b>	<b>\$30,082,675</b>	<b>\$427.92</b>

*\*Phasing Impact Can Be Deleted if North 40 is P*

**MAIN SUMMARY**

Description:	Hunnewell: Reno. & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation 70,300 GSF 13,754 GSF		Hunnewell: Reno. & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation 70,300 GSF 13,754 GSF		Hunnewell: Reno. & Addition 536-Students 62,805 GSF Addition 18,917 GSF Renovation 81,722 GSF 17,524 GSF		
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF	
<b>Direct Trade Costs</b>							
New Building Trade Costs	\$12,793,139	\$268.69	\$12,793,139	\$268.69	\$15,620,931	\$248.72	
Site Development Costs							
Additional Sitework							
Storm Water System	\$125,000	\$1.78	\$125,000	\$1.78	\$125,000	\$1.53	
Earthwork/Ledge Removal							
Building Demolition	\$72,209	\$1.03	\$72,209	\$1.03	\$92,001	\$1.13	
Building Trade Costs Renovation	\$5,430,203	\$114.05	\$5,430,203	\$114.05	\$4,780,253	\$252.70	
Site Development Costs at Renovation (w/Add)	\$1,892,656	\$26.92	\$1,892,656	\$26.92	\$1,892,656	\$23.16	
Parking Garage at Cameron Street Lot	\$5,166,145	\$73.49	(No Garage)		\$5,166,145	\$63.22	
Underground Parking Garage (20 Spaces)			\$600,000				
<b>Direct Trade Cost SubTotal</b>	<b>\$25,479,352</b>	<b>\$362.44</b>	<b>\$20,913,207</b>	<b>\$297.49</b>	<b>\$27,676,986</b>	<b>\$338.67</b>	
Construction Contingency	3.00%	\$387,544	\$5.51	\$387,544	\$5.51	\$472,378	\$5.78
Construction Contingency Renovation	5.00%	\$369,753	\$5.26	\$369,753	\$5.26	\$338,246	\$4.14
<b>Trade Cost SubTotal</b>	<b>\$26,236,649</b>	<b>\$373.21</b>	<b>\$21,670,504</b>	<b>\$308.26</b>	<b>\$28,487,610</b>	<b>\$348.59</b>	
General Conditions and Requirements	8.50%	\$2,230,115	\$31.72	\$1,841,993	\$26.20	\$2,421,447	\$29.63
Insurance	1.10%	\$313,134	\$4.45	\$258,637	\$3.68	\$340,000	\$4.16
GC Bonds	1.10%	\$316,579	\$4.50	\$261,482	\$3.72	\$343,740	\$4.21
Fee	3.00%	\$872,894	\$12.42	\$720,978	\$10.26	\$947,784	\$11.60
<b>Estimated Construction Cost Total</b>	<b>\$29,969,371</b>	<b>\$426.31</b>	<b>\$24,753,594</b>	<b>\$352.11</b>	<b>\$32,540,581</b>	<b>\$398.19</b>	
Phasing	3.00%	\$899,082	\$39.63	\$742,608	\$32.73	\$976,218	\$51.61
Escalation to 2nd Quarter 2016	6.13%	\$1,835,624	\$26.11	\$1,516,158	\$21.57	\$1,993,111	\$24.39
<b>ECC including Escalation Total</b>	<b>\$32,704,077</b>	<b>\$465.21</b>	<b>\$27,012,360</b>	<b>\$384.24</b>	<b>\$35,509,910</b>	<b>\$434.52</b>	

*\*Phasing Impact Can Be Deleted if North 40 is P*

**MAIN SUMMARY**

Description:	Hunnewell: New Construction 536-Students 81,722 GSF New		Hunnewell: Reno. & Addition 330-Students 35,558 GSF Addition 22,687 GSF Renovation		Hunnewell: Reno. & Addition 425-Students 47,613 GSF Addition 22,687 GSF Renovation	
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF
<b>New Construction GSF:</b>	36,441 GSF		13,754 GSF		13,754 GSF	
<b>Renovation GSF:</b>						
<b>New and Renovation GSF:</b>						
<b>Area of Demolition GSF:</b>						
<b>Direct Trade Costs</b>						
New Building Trade Costs	\$20,427,694	\$249.97	\$11,114,502	\$312.57	\$12,793,139	\$268.69
Site Development Costs						
Additional Sitework						
Storm Water System	\$125,000	\$1.53	\$125,000	\$2.15	\$125,000	\$1.78
Earthwork/Ledge Removal						
Building Demolition	\$191,315	\$2.34	\$72,209	\$1.24	\$72,209	\$1.03
Building Trade Costs Renovation			\$5,430,203	\$239.35	\$5,430,203	\$239.35
Site Development Costs at Renovation (w/Add)	\$2,625,029	\$32.12	\$1,892,656	\$32.49	\$1,892,656	\$26.92
Parking Garage at Cameron Street Lot	\$5,166,145	\$82.26				
Underground Parking Garage (20 Spaces)						
<b>Direct Trade Cost SubTotal</b>	<b>\$28,535,183</b>	<b>\$349.17</b>	<b>\$18,634,570</b>	<b>\$319.93</b>	<b>\$20,313,207</b>	<b>\$288.95</b>
Construction Contingency 3.00%	\$856,056	\$10.48	\$337,185	\$5.79	\$387,544	\$5.51
Construction Contingency Renovation 5.00%		\$0.00	\$369,753	\$6.35	\$369,753	\$5.26
<b>Trade Cost SubTotal</b>	<b>\$29,391,239</b>	<b>\$359.65</b>	<b>\$19,341,508</b>	<b>\$332.07</b>	<b>\$21,070,504</b>	<b>\$299.72</b>
General Conditions and Requirements 8.50%	\$2,498,260	\$30.57	\$1,644,028	\$28.23	\$1,790,993	\$25.48
Insurance 1.10%	\$350,785	\$4.29	\$230,841	\$3.96	\$251,476	\$3.58
GC Bonds 1.10%	\$354,644	\$4.34	\$233,380	\$4.01	\$254,243	\$3.62
Fee 3.00%	\$977,848	\$11.97	\$643,493	\$11.05	\$701,016	\$9.97
<b>Estimated Construction Cost Total</b>	<b>\$33,572,776</b>	<b>\$410.82</b>	<b>\$22,093,250</b>	<b>\$379.32</b>	<b>\$24,068,232</b>	<b>\$342.36</b>
Phasing 3.00%	\$1,007,184	\$12.32	\$662,798	\$29.21	\$722,047	\$31.83
Escalation to 2nd Quarter 2016 6.13%	\$2,056,340	\$25.16	\$1,353,212	\$23.23	\$1,474,180	\$20.97
<b>ECC including Escalation Total</b>	<b>\$36,636,300</b>	<b>\$448.30</b>	<b>\$24,109,260</b>	<b>\$413.93</b>	<b>\$26,264,459</b>	<b>\$373.61</b>

*\*Phasing Impact Can Be Deleted if North 40 is P*

**MAIN SUMMARY**

Description:	Upham: New Construction 536-Students 81,722 GSF New		Upham: Reno. & Addition 536-Students 57,241 GSF Addition 24,481 GSF Renovation 81,722 GSF		Upham: New Construction 264 47,523 GSF New	
	Total	Cost/GSF	Total	Cost/GSF	Total	Cost/GSF
<b>New Construction GSF:</b>	36,481 GSF		12,000 GSF		36,481 GSF	
<b>Renovation GSF:</b>						
<b>New and Renovation GSF:</b>						
<b>Area of Demolition GSF:</b>						
<b>Direct Trade Costs</b>						
New Building Trade Costs	\$20,427,694	\$249.97	\$14,136,217	\$246.96	\$12,707,141	\$267.39
Site Development Costs						
Additional Sitework						
Storm Water System						
Earthwork/Ledge Removal	\$2,800,000	\$34.26	\$2,800,000	\$34.26	\$2,800,000	\$58.92
Building Demolition	\$191,525	\$2.34	\$63,000	\$0.77	\$191,525	\$4.03
Building Trade Costs Renovation			\$6,081,276	\$248.41		
Site Development Costs at Renovation (w/Add)	\$4,000,928	\$48.96	\$4,000,928	\$48.96	\$4,000,928	\$84.19
Parking Garage at Cameron Street Lot						
Underground Parking Garage (20 Spaces)						
<b>Direct Trade Cost SubTotal</b>	<b>\$27,420,147</b>	<b>\$335.53</b>	<b>\$27,081,421</b>	<b>\$331.38</b>	<b>\$19,699,594</b>	<b>\$414.53</b>
Construction Contingency 3.00%	\$822,605	\$10.07	\$508,087	\$6.22	\$590,988	\$12.44
Construction Contingency Renovation 5.00%		\$0.00	\$507,260	\$6.21		\$0.00
<b>Trade Cost SubTotal</b>	<b>\$28,242,752</b>	<b>\$345.60</b>	<b>\$28,096,768</b>	<b>\$343.81</b>	<b>\$20,290,582</b>	<b>\$426.96</b>
General Conditions and Requirements 8.50%	\$2,400,640	\$29.38	\$2,388,230	\$29.22	\$1,724,700	\$36.29
Insurance 1.10%	\$337,078	\$4.12	\$335,335	\$4.10	\$242,169	\$5.10
GC Bonds 1.10%	\$340,786	\$4.17	\$339,024	\$4.15	\$244,832	\$5.15
Fee 3.00%	\$939,638	\$11.50	\$934,781	\$11.44	\$675,069	\$14.21
<b>Estimated Construction Cost Total</b>	<b>\$32,260,894</b>	<b>\$394.76</b>	<b>\$32,094,138</b>	<b>\$392.72</b>	<b>\$23,177,352</b>	<b>\$487.71</b>
Phasing 3.00%	\$967,827	\$11.84	\$962,825	\$39.33	\$695,321	\$14.63
Escalation to 2nd Quarter 2016 6.13%	\$1,975,980	\$24.18	\$1,965,770	\$24.05	\$1,419,620	\$29.87
<b>ECC including Escalation Total</b>	<b>\$35,204,701</b>	<b>\$430.79</b>	<b>\$35,022,733</b>	<b>\$428.56</b>	<b>\$25,292,293</b>	<b>\$532.21</b>

*\*Phasing Impact Can Be Deleted if North 40 is P*

**MAIN SUMMARY**

Description:	Upham: New Construction 330 58,245 GSF New		Upham: New Construction 425 70,300 GSF New	
	Total	Cost/GSF	Total	Cost/GSF
<b>New Construction GSF:</b>	36,481 GSF		36,481 GSF	
<b>Renovation GSF:</b>				
<b>New and Renovation GSF:</b>				
<b>Area of Demolition GSF:</b>				
<b>Direct Trade Costs</b>				
New Building Trade Costs	\$14,991,726	\$257.39	\$17,531,152	\$249.38
Site Development Costs				
Additional Sitework				
Storm Water System				
Earthwork/Ledge Removal	\$2,800,000	\$48.07	\$2,800,000	\$39.83
Building Demolition	\$191,525	\$3.29	\$191,525	\$2.72
Building Trade Costs Renovation				
Site Development Costs at Renovation (w/Add)	\$4,000,928	\$68.69	\$4,000,928	\$56.91
Parking Garage at Cameron Street Lot				
Underground Parking Garage (20 Spaces)				
<b>Direct Trade Cost SubTotal</b>	<b>\$21,984,179</b>	<b>\$377.44</b>	<b>\$24,523,605</b>	<b>\$348.84</b>
Construction Contingency 3.00%	\$659,526	\$11.32	\$735,709	\$10.47
Construction Contingency Renovation 5.00%		\$0.00		\$0.00
<b>Trade Cost SubTotal</b>	<b>\$22,643,705</b>	<b>\$388.77</b>	<b>\$25,259,314</b>	<b>\$359.31</b>
General Conditions and Requirements 8.50%	\$1,924,720	\$33.05	\$2,147,050	\$30.54
Insurance 1.10%	\$270,253	\$4.64	\$301,471	\$4.29
GC Bonds 1.10%	\$273,226	\$4.69	\$304,787	\$4.34
Fee 3.00%	\$753,358	\$12.93	\$840,379	\$11.95
<b>Estimated Construction Cost Total</b>	<b>\$25,865,262</b>	<b>\$444.08</b>	<b>\$28,853,001</b>	<b>\$410.43</b>
Phasing 3.00%	\$775,958	\$13.32	\$865,591	\$12.31
Escalation to 2nd Quarter 2016 6.13%	\$1,584,250	\$27.20	\$1,767,250	\$25.14
<b>ECC including Escalation Total</b>	<b>\$28,225,470</b>	<b>\$484.60</b>	<b>\$31,485,842</b>	<b>\$447.88</b>
<b>*Phasing Impact Can Be Deleted if North 40 is P</b>				

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	359	CY	\$37.00	\$13,274
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	215	CY	\$25.00	\$5,381
14 Perimeter foundation drain	910	LF	\$22.00	\$20,020
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	910	LF	\$75.00	\$68,250
19 Spread footing w/pier	75	EA	\$3,000.00	\$225,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	3,640	SF	\$42.50	\$154,700
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	301	EA	\$35.00	\$10,519
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	3,640	SF	\$5.00	\$18,200
29 Rigid insulation at retaining/foundation walls	3,640	SF	\$3.50	\$12,740
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$829,349</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
37 No anticipated work				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	15,129	SF	\$8.50	\$128,597
43 Misc. metals	15,129	SF	\$2.00	\$30,258
44 Steel framing; assume 13#/f5	280.3	TNS	\$3,400.00	\$953,151
45 Composite upper floor metal deck	15,129	SF	\$4.75	\$71,863
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	43,129	f5	\$0.35	\$15,095
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$1,358,263</b>
<b>52</b>				
<b>53</b>				



**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	43,129	f5	\$1.00	\$43,129
105 Interior caulking	43,129	f5	\$0.35	\$15,095
106 Top-of-partition firestopping	43,129	f5	\$0.15	\$6,469
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	40	EA	\$1,200.00	\$48,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
112 Paint door and frame	50	OPEN	\$100.00	\$5,000
113 Blocking at doors	900	LF	\$2.50	\$2,250
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
119 Miscellaneous signage	43,129	f5	\$0.40	\$17,252
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	43,129	f5	\$0.75	\$32,347
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	5	EA	\$500.00	\$2,500
126 Tackboards, markerboards, whiteboards	43,129	f5	\$0.75	\$32,347
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
129 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$1,696,620</b>
130				
131				
132 <b>C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
137 <b>C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
140 <b>C30 INTERIOR FINISHES</b>				

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
141				
142 <i>Wall Finishes</i>	<b>43,129</b>	<i>SF</i>	<b>\$5.68</b>	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	\$75	SF	\$20.00	\$1,500
152 Paint walls	80,780	SF	\$1.25	\$100,975
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	<b>43,129</b>	<i>SF</i>	<b>\$10.96</b>	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	1,080	SF	\$1.25	\$1,350
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
168 Remainder of program spaces	2,363	SF	\$5.00	\$11,813
169 Wall base	6,730	LF	\$2.50	\$16,825
170				
171 <i>Ceiling Finishes</i>	<b>43,129</b>	<i>SF</i>	<b>\$8.74</b>	
172 ACT ceiling, generally	(203)	SF	\$4.50	(\$912)
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	15,095	SF	\$12.00	\$181,142
176 Exposed structure	15,080	SF	\$1.50	\$22,620
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,115,773</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	0	f5	\$0.25	\$0
193 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	43,129	f5	\$6.00	\$258,774
195 <b>D20 PLUMBING TOTAL</b>				<b>\$268,774</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	0	f5	\$0.35	\$0
199 Coring, sleeves, penetrations, sealants	1	LS	\$20,000.00	\$20,000
200 Equipment, ducting, piping, controls	43,129	f5	\$30.00	\$1,293,870
201 <b>D30 HVAC TOTAL</b>				<b>\$1,313,870</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$5,000.00	\$5,000
205 Equipment, piping, sprinklers	43,129	f5	\$3.60	\$155,264
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$160,264</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				
212 Cut and drop existing equipment and fixtures	0	f5	\$0.50	\$0
213 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	43,129	f5	\$30.00	\$1,293,870
215 <b>D50 ELECTRICAL TOTAL</b>				<b>\$1,303,870</b>
216				
217				
218 <b>E10 EQUIPMENT</b>				
219				
220 <b>E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
229 Rope hoist	1	EA	\$500.00	\$500
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	f5	\$250.00	\$250,000
239 Media center	1	AL	\$25,000.00	\$25,000
240 <b>E10 EQUIPMENT TOTAL</b>				<b>\$493,000</b>
241				
242				
243 <b>E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	f5	\$10.00	\$431,750
247				
248 cafeteria seating	536	SEAT	\$275.00	NIC
249				
250 Window treatment	15,970	SF	\$5.75	\$91,825
251 <b>E20 FURNISHINGS TOTAL</b>				<b>\$523,575</b>
252				
253				
254 <b>F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
259 <b>F20 SELECTIVE DEMOLITION</b>				
260				
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	f5	\$12.50	\$0
263 Demolish existing building	0	f5	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	374	CY	\$37.00	\$13,849
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	225	CY	\$25.00	\$5,615
14 Perimeter foundation drain	950	LF	\$22.00	\$20,900
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	950	LF	\$75.00	\$71,250
19 Spread footing w/pier	76	EA	\$3,000.00	\$229,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	3,800	SF	\$42.50	\$161,500
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	306	EA	\$35.00	\$10,705
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	3,800	SF	\$5.00	\$19,000
29 Rigid insulation at retaining/foundation walls	3,800	SF	\$3.50	\$13,300
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$846,384</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
37 No anticipated work				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	27,184	SF	\$8.50	\$231,064
43 Misc. metals	27,184	SF	\$2.00	\$54,368
44 Steel framing; assume 13#/f5	358.7	TNS	\$3,400.00	\$1,219,566
45 Composite upper floor metal deck	27,184	SF	\$4.75	\$129,124
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	55,184	f5	\$0.35	\$19,314
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$1,812,737</b>
<b>52</b>				
<b>53</b>				



**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	55,184	f5	\$1.00	\$55,184
105 Interior caulking	55,184	f5	\$0.35	\$19,314
106 Top-of-partition firestopping	55,184	f5	\$0.15	\$8,278
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	60	EA	\$1,200.00	\$72,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,200	SF	\$35.00	\$42,000
112 Paint door and frame	70	OPEN	\$100.00	\$7,000
113 Blocking at doors	1,260	LF	\$2.50	\$3,150
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$7,500.00	\$7,500
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$10,000.00	\$10,000
119 Miscellaneous signage	55,184	f5	\$0.40	\$22,074
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	55,184	f5	\$0.75	\$41,388
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	7	EA	\$500.00	\$3,500
126 Tackboards, markerboards, whiteboards	55,184	f5	\$0.75	\$41,388
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
129 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$1,937,115</b>
130				
131				
132 <b>C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
137 <b>C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
140 <b>C30 INTERIOR FINISHES</b>				

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
141				
142 <i>Wall Finishes</i>	<b>55,184</b>	<i>SF</i>	<b>\$5.68</b>	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	75	SF	\$20.00	\$1,500
152 Paint walls	102,510	SF	\$1.25	\$128,138
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	<b>55,184</b>	<i>SF</i>	<b>\$10.96</b>	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	1,380	SF	\$1.25	\$1,725
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
168 Remainder of program spaces	13,515	SF	\$5.00	\$67,574
169 Wall base	8,540	LF	\$2.50	\$21,350
170				
171 <i>Ceiling Finishes</i>	<b>55,184</b>	<i>SF</i>	<b>\$8.74</b>	
172 ACT ceiling, generally	6,730	SF	\$4.50	\$30,287
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	19,314	SF	\$12.00	\$231,773
176 Exposed structure	15,380	SF	\$1.50	\$23,070
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,285,876</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	55,184	SF	\$0.25	\$13,796
193 Coring, sleeves, penetrations, sealants	1	LS	\$12,000.00	\$12,000
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	55,184	f5	\$6.00	\$331,104
195 <b>D20 PLUMBING TOTAL</b>				<b>\$356,900</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	55,184	SF	\$0.35	\$19,314
199 Coring, sleeves, penetrations, sealants	1	LS	\$25,000.00	\$25,000
200 Equipment, ducting, piping, controls	55,184	SF	\$30.00	\$1,655,520
201 <b>D30 HVAC TOTAL</b>				<b>\$1,699,834</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$7,500.00	\$7,500
205 Equipment, piping, sprinklers	55,184	SF	\$3.60	\$198,662
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$206,162</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				
212 Cut and drop existing equipment and fixtures	0	SF	\$0.50	\$0
213 Coring, sleeves, penetrations, sealants	1	LS	\$12,000.00	\$12,000
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	55,184	SF	\$30.00	\$1,655,520
215 <b>D50 ELECTRICAL TOTAL</b>				<b>\$1,667,520</b>
216				
217				
218 <b>E10 EQUIPMENT</b>				
219				
220 <b>E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550

**Hardy Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
229 Rope hoist	1	EA	\$500.00	\$500
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	f5	\$250.00	\$250,000
239 Media center	1	AL	\$30,000.00	\$30,000
240 <b>E10 EQUIPMENT TOTAL</b>				<b>\$498,000</b>
241				
242				
243 <b>E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	SF	\$10.00	\$431,750
247				
248 cafeteria seating	600	SEAT	\$275.00	NIC
249				
250 Window treatment	16,672	SF	\$5.75	\$95,861
251 <b>E20 FURNISHINGS TOTAL</b>				<b>\$527,611</b>
252				
253				
254 <b>F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
259 <b>F20 SELECTIVE DEMOLITION</b>				
260				
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	SF	\$12.50	\$0
263 Demolish existing building	0	SF	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**Hardy: Historic Renovation**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>A10 FOUNDATIONS</b>				
7				
8				
9	No anticipated work			\$0
10				
11	<b>A10 FOUNDATIONS TOTAL</b>			<b>\$0</b>
12				
13				
<b>A20 BASEMENT</b>				
14				
15				
16	No anticipated work			
17				
18	<b>A20 BASEMENT TOTAL</b>			<b>\$0</b>
19				
20				
<b>B10 STRUCTURE</b>				
21				
22				
23	No anticipated work			
24				
25	<b>B10 STRUCTURE TOTAL</b>			<b>\$0</b>
26				
27				
<b>B20 EXTERIOR CLOSURE</b>				
28				
29				
30	<i>Total exterior closure coverage</i>	<b>18,750</b>	<i>sf</i>	
31	<i>Masonry</i>	<b>11,250</b>	<i>sf</i>	
32	<i>Glass; assume 40%</i>	<b>7,500</b>	<i>sf</i>	
33				
34	Aluminum sunshades	<b>3,000</b>	SF	\$75.00 \$225,000
35	Remove and replace existing windows	<b>7,500</b>	SF	\$87.50 \$656,250
36	Restore masonry to remain	<b>15,000</b>	SF	\$15.00 \$225,000
37	Caulking and sealants	<b>18,750</b>	SF	\$1.90 \$35,625
38	Louver panel	<b>500</b>	SF	\$55.00 \$27,500
39	Miscellaneous metals	<b>18,750</b>	SF	\$1.50 \$28,125
40	<b>B20 EXTERIOR CLOSURE TOTAL</b>			<b>\$1,197,500</b>
41				
42				
<b>B30 ROOFING</b>				
43				
44				
45	Remove and replace membrane roofing	<b>15,116</b>	SF	\$18.50 \$279,646
46	<b>B30 ROOFING TOTAL</b>			<b>\$279,646</b>
47				

**Hardy: Historic Renovation**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
48				
49 <b>C10 INTERIOR CONSTRUCTION</b>				
50				
51 New partitions	15,116	SF	\$15.00	\$226,740
52 Rough carpentry internal partitions and ceilings	15,116	GSF	\$1.00	\$15,116
53 Interior caulking	15,116	GSF	\$0.35	\$5,291
54 Top-of-partition firestopping	15,116	GSF	\$0.15	\$2,267
55				
56 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
57 Hollow metal door, frame and hardware	30	EA	\$1,200.00	\$36,000
58 Pair of doors	10	PR	\$2,400.00	\$24,000
59 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
60 Paint door and frame	40	OPEN	\$100.00	\$4,000
61 Blocking at doors	720	LF	\$2.50	\$1,800
62 Access doors	100	EA	\$250.00	\$25,000
63				
64 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
65 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
66 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
67 Miscellaneous signage	15,116	GSF	\$0.40	\$6,046
68 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
69 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
70 Toilet compartments, toilet accessories	15,116	GSF	\$0.75	\$11,337
71 Lockers	0	EA	\$275.00	\$0
72 Athletic lockers	0	EA	\$65.00	\$0
73 Fire extinguisher and cabinet	2	EA	\$500.00	\$1,000
74 Tackboards, markerboards, whiteboards	15,116	GSF	\$0.75	\$11,337
75 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
76 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
77 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$532,234</b>
78				
79				
80 <b>C20 STAIRCASES</b>				
81				
82 Upgrade existing egress stair to code compliance	2	FLT	\$5,000.00	\$10,000
83 <b>C20 STAIRCASES TOTAL</b>				<b>\$10,000</b>
84				
85				
86 <b>C30 INTERIOR FINISHES</b>				
87				
88 Wall Finishes	15,116	SF	\$5.00	\$75,580

**Hardy: Historic Renovation**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
89				
90 Floor prep of existing to remain floor plates	15,116	SF	\$10.96	\$165,644
91 Flooring	15,116	SF	\$6.00	\$90,696
92				
93 <i>Ceiling Finishes</i>				
94 ACT ceiling, generally	15,116	SF	\$10.00	\$151,160
95 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$483,080</b>
96				
97				
98 <b>D10 CONVEYING SYSTEMS</b>				
99				
100 No anticipated work				
102 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$0</b>
103				
104				
105 <b>D15 MECHANICAL</b>				
106				
107 <b>D20 PLUMBING</b>				
108 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	15,116	GSF	\$5.00	\$75,580
109 <b>D20 PLUMBING TOTAL</b>				<b>\$75,580</b>
110				
111 <b>D30 HVAC</b>				
112 Equipment, ducting, piping, controls	15,116	GSF	\$30.00	\$453,480
113 <b>D30 HVAC TOTAL</b>				<b>\$453,480</b>
114				
115 <b>D40 FIRE PROTECTION</b>				
116 Equipment, piping, sprinklers	15,116	GSF	\$4.50	\$68,022
117 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$68,022</b>
118				
119				
120 <b>D50 ELECTRICAL</b>				
121				
122 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				
123 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	15,116	GSF	\$28.00	\$423,248
124 <b>D50 ELECTRICAL TOTAL</b>				<b>\$423,248</b>
125				
126				
127 <b>E10 EQUIPMENT</b>				

**Hardy: Historic Renovation**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
128				
129 <b>E1020 INSTITUTIONAL EQUIPMENT</b>				
130 Equipment	15,116	SF	\$5.00	\$75,580
131				
132 <b>E10 EQUIPMENT TOTAL</b>				<b>\$75,580</b>
133				
134				
135 <b>E20 FURNISHINGS</b>				
136				
137 Millwork, casework, standing and running trim, misc. metals	15,116	SF	\$10.00	\$151,160
138				
139 <b>E20 FURNISHINGS TOTAL</b>				<b>\$151,160</b>
140				
141				
142 <b>F10 SPECIAL CONSTRUCTION</b>				
143				
144 No anticipated work				
145				
146				
147 <b>F20 SELECTIVE DEMOLITION</b>				
148				
149 <b>F2020 SELECTIVE DEMOLITION</b>				
150 Interior demolition	15,116	SF	\$6.50	\$98,254
151 Demolish existing building	461,895	CF	\$0.35	\$161,663
152 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$259,917</b>
153				
154				
155				
156				

**Leased Modular Classrooms**

Master Plan

48,000 GSF

	ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
\$7	<b>Leased Modular Classroom</b>				
\$8					
\$9	Modular Classrooms	1	EA	\$44,268.00	\$44,268
\$10	Add for plumbing fixtures	1	LS	\$20,000.00	\$20,000
\$11	Foundations - Concrete piers to 4'6" depth				Included
\$12	Enclosed connectors	512	SF	\$200.00	\$102,400
\$13	Installation	2,108	SF	\$40.00	\$84,320
\$14	Exterior ramps and stairs	1	LS	\$35,000.00	\$35,000
\$15	Tele/Data/Security/FA tie-in	1	LS	\$10,000.00	\$10,000
\$16	Electrical service	1	LS	\$20,000.00	\$20,000
\$17	FP Connection	1	LS	\$15,000.00	\$15,000
\$18	Water Supply	1	LS	\$15,000.00	\$15,000
\$19	Sewer Connection	1	LS	\$20,000.00	\$20,000
\$20	Site demilition and improvements	1	LS	\$15,000.00	\$15,000
\$21	Restore site after lease	1	LS	\$20,000.00	\$20,000
\$22	Contingency	1	LS	\$97,485.00	\$97,485
\$23	Escalation	1	LS	\$41,331.98	\$41,332
\$24	<b>Subtotal</b>				<b>\$539,805</b>
\$25					

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	374	CY	\$37.00	\$13,849
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	225	CY	\$25.00	\$5,615
14 Perimeter foundation drain	950	LF	\$22.00	\$20,900
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	950	LF	\$75.00	\$71,250
19 Spread footing w/pier	76	EA	\$3,000.00	\$229,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	3,800	SF	\$42.50	\$161,500
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	306	EA	\$35.00	\$10,705
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	3,800	SF	\$5.00	\$19,000
29 Rigid insulation at retaining/foundation walls	3,800	SF	\$3.50	\$13,300
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$846,384</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
37 No anticipated work				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	7,558	SF	\$8.50	\$64,243
43 Misc. metals	7,558	SF	\$2.00	\$15,116
44 Steel framing; assume 13#/f5	231.1	TNS	\$3,400.00	\$785,832
45 Composite upper floor metal deck	7,558	SF	\$4.75	\$35,901
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	35,558	f5	\$0.35	\$12,445
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$1,072,837</b>
<b>52</b>				
<b>53</b>				



**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	35,558	f5	\$1.00	\$35,558
105 Interior caulking	35,558	f5	\$0.35	\$12,445
106 Top-of-partition firestopping	35,558	f5	\$0.15	\$5,334
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	40	EA	\$1,200.00	\$48,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
112 Paint door and frame	50	OPEN	\$100.00	\$5,000
113 Blocking at doors	900	LF	\$2.50	\$2,250
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
119 Miscellaneous signage	35,558	f5	\$0.40	\$14,223
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	35,558	f5	\$0.75	\$26,669
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	4	EA	\$500.00	\$2,000
126 Tackboards, markerboards, whiteboards	35,558	f5	\$0.75	\$26,669
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
129 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$1,570,139</b>
130				
131				
132 <b>C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
137 <b>C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
140 <b>C30 INTERIOR FINISHES</b>				

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
141				
142 <i>Wall Finishes</i>	<b>35,558</b>	<i>SF</i>	<b>\$5.68</b>	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	75	SF	\$20.00	\$1,500
152 Paint walls	67,140	SF	\$1.25	\$83,925
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	<b>35,558</b>	<i>SF</i>	<b>\$10.96</b>	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	890	SF	\$1.25	\$1,113
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
169 Wall base	5,600	LF	\$2.50	\$14,000
170				
171 <i>Ceiling Finishes</i>	<b>35,558</b>	<i>SF</i>	<b>\$8.74</b>	
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	12,445	SF	\$12.00	\$149,344
176 Exposed structure	14,890	SF	\$1.50	\$22,335
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,008,978</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				

Hunnewell Addition

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	0	f5	\$0.25	\$0
193 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	35,558	f5	\$6.00	\$213,348
195 <b>D20 PLUMBING TOTAL</b>				<b>\$223,348</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	0	f5	\$0.35	\$0
199 Coring, sleeves, penetrations, sealants	1	LS	\$20,000.00	\$20,000
200 Equipment, ducting, piping, controls	35,558	f5	\$30.00	\$1,066,740
201 <b>D30 HVAC TOTAL</b>				<b>\$1,086,740</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$5,000.00	\$5,000
205 Equipment, piping, sprinklers	35,558	f5	\$3.60	\$128,009
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$133,009</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				
212 Cut and drop existing equipment and fixtures	0	f5	\$0.50	\$0
213 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	35,558	f5	\$30.00	\$1,066,740
215 <b>D50 ELECTRICAL TOTAL</b>				<b>\$1,076,740</b>
216				
217				
218 <b>E10 EQUIPMENT</b>				
219				
220 <b>E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550
229 Rope hoist	1	EA	\$500.00	\$500

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	f5	\$250.00	\$250,000
239 Media center	1	AL	\$25,000.00	\$25,000
240 <b>E10 EQUIPMENT TOTAL</b>				<b>\$493,000</b>
241				
242				
243 <b>E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	f5	\$10.00	\$431,750
247				
248 cafeteria seating	536	SEAT	\$275.00	NIC
249				
250 Window treatment	16,672	SF	\$5.75	\$95,861
251 <b>E20 FURNISHINGS TOTAL</b>				<b>\$527,611</b>
252				
253				
254 <b>F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
259 <b>F20 SELECTIVE DEMOLITION</b>				
260				
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	f5	\$12.50	\$0
263 Demolish existing building	0	f5	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	374	CY	\$37.00	\$13,849
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	225	CY	\$25.00	\$5,615
14 Perimeter foundation drain	950	LF	\$22.00	\$20,900
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	950	LF	\$75.00	\$71,250
19 Spread footing w/pier	76	EA	\$3,000.00	\$229,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	3,800	SF	\$42.50	\$161,500
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	306	EA	\$35.00	\$10,705
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	3,800	SF	\$5.00	\$19,000
29 Rigid insulation at retaining/foundation walls	3,800	SF	\$3.50	\$13,300
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$846,384</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
<b>37 No anticipated work</b>				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	19,613	SF	\$8.50	\$166,711
43 Misc. metals	19,613	SF	\$2.00	\$39,226
44 Steel framing; assume 13#/f5	309.5	TNS	\$3,400.00	\$1,052,247
45 Composite upper floor metal deck	19,613	SF	\$4.75	\$93,162
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	47,613	f5	\$0.35	\$16,665
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$1,527,310</b>
<b>52</b>				
<b>53</b>				
<b>54 B20 EXTERIOR CLOSURE</b>				
<b>55</b>				
56	<i>Total exterior closure coverage</i>	<b>25,650</b>	<i>sf</i>	
57	<i>Miscellaneous Exterior</i>	<b>6,413</b>	<i>sf</i>	
58	<i>Masonry</i>	<b>8,978</b>	<i>sf</i>	
59	<i>New glass; assume 40%</i>	<b>10,260</b>	<i>sf</i>	
<b>60</b>				

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
61 Masonry exterior wall system	8,978	SF	\$50.00	\$448,875
62 Curtain wall	2,565	SF	\$110.00	\$282,150
63 Storefront	1,539	SF	\$90.00	\$138,510
64 Punch windows	6,156	SF	\$80.00	\$492,480
65 Miscellaneous exterior	6,413	SF	\$50.00	\$320,625
66 Exterior closure articulation and detailing	15,390	SF	\$5.00	\$76,950
67 Aluminum sunshades	2,565	SF	\$75.00	\$192,375
68 Roof screens	1	LS	\$150,000.00	\$150,000
69 Restore masonry to remain	0	SF	\$30.00	\$0
70 Aluminum entry door	10	LEAF	\$3,500.00	\$35,000
71 Powered door opener	4	LOC	\$2,500.00	\$10,000
72 Egress HM door	10	LEAF	\$1,650.00	\$16,500
73 Exterior folding overhead doors	2	EA	\$10,000.00	\$20,000
74 Miscellaneous metals	15,390	SF	\$3.00	\$46,170
75 Blocking at openings	16,673	SF	\$3.50	\$58,354
76 Through wall sheet mtl flashing	15,390	SF	\$0.35	\$5,387
77 Caulking and sealants	15,390	SF	\$1.90	\$29,241
78 Louvers	500	SF	\$55.00	\$27,500
79 Elevator vent	1	EA	\$1,500.00	\$1,500
<b>80 B20 EXTERIOR CLOSURE TOTAL</b>				<b>\$2,351,616</b>
81				
82				
<b>83 B30 ROOFING</b>				
84				
85 Flat membrane roofing system	28,000	SF	\$15.50	\$434,000
86 Premium for green roofs	2,500	SF	\$15.00	\$37,500
87 Rough blocking to roof	29,400	SF	\$1.00	\$29,400
88 Miscellaneous roof accessories	1	LS	\$50,000.00	\$50,000
89 Remove and replace membrane roofing	0	SF	\$19.00	\$0
<b>90 B30 ROOFING TOTAL</b>				<b>\$550,900</b>
91				
92				
<b>93 C10 INTERIOR CONSTRUCTION</b>				
94				
95 8" CMU interior partitions	9,523	SF	\$23.00	\$219,020
96 8" CMU elevator shaft wall	2,540	SF	\$23.00	\$58,409
97 Misc metals for lintels, restraints	12,062	SF	\$2.00	\$24,124
98 Drywall partitions	38,090	SF	\$8.50	\$323,768
99 Chase walls	5,712	SF	\$12.00	\$68,539
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	47,613	f5	\$1.00	\$47,613
105 Interior caulking	47,613	f5	\$0.35	\$16,665
106 Top-of-partition firestopping	47,613	f5	\$0.15	\$7,142
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	50	EA	\$1,200.00	\$60,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
112 Paint door and frame	60	OPEN	\$100.00	\$6,000
113 Blocking at doors	1,080	LF	\$2.50	\$2,700

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
119 Miscellaneous signage	47,613	f5	\$0.40	\$19,045
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	47,613	f5	\$0.75	\$35,710
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	6	EA	\$500.00	\$3,000
126 Tackboards, markerboards, whiteboards	47,613	f5	\$0.75	\$35,710
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
<b>129 C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$1,785,184</b>
130				
131				
<b>132 C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
<b>137 C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
<b>140 C30 INTERIOR FINISHES</b>				
141				
142 <i>Wall Finishes</i>	47,613	SF	\$5.68	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	\$75	SF	\$20.00	\$1,500
152 Paint walls	88,860	SF	\$1.25	\$111,075
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	47,613	SF	\$10.96	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000

Hunnewell Addition

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	1,190	SF	\$1.25	\$1,488
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
168 Remainder of program spaces	6,512	SF	\$5.00	\$32,562
169 Wall base	7,410	LF	\$2.50	\$18,525
170				
171 <i>Ceiling Finishes</i>	47,613	SF	\$8.74	
172 ACT ceiling, generally	2,378	SF	\$4.50	\$10,700
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	16,665	SF	\$12.00	\$199,975
176 Exposed structure	15,190	SF	\$1.50	\$22,785
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,179,069</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	39,200	SF	\$0.25	\$9,800
193 Coring, sleeves, penetrations, sealants	1	LS	\$200.00	\$200
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	47,613	SF	\$6.00	\$285,678
195 <b>D20 PLUMBING TOTAL</b>				<b>\$295,678</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	47,613	SF	\$0.35	\$16,665
199 Coring, sleeves, penetrations, sealants	1	LS	\$3,335.00	\$3,335
200 Equipment, ducting, piping, controls	47,613	SF	\$30.00	\$1,428,390
201 <b>D30 HVAC TOTAL</b>				<b>\$1,448,390</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$5,000.00	\$5,000
205 Equipment, piping, sprinklers	47,613	SF	\$3.60	\$171,407
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$176,407</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
212 Cut and drop existing equipment and fixtures	47,613	SF	\$0.50	\$23,807
213 Coring, sleeves, penetrations, sealants	1	LS	\$9,833.50	\$9,834
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	46,825	SF	\$30.00	\$1,404,750
<b>215 D50 ELECTRICAL TOTAL</b>				<b>\$1,438,390</b>
216				
217				
<b>218 E10 EQUIPMENT</b>				
219				
<b>220 E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550
229 Rope hoist	1	EA	\$500.00	\$500
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	SF	\$250.00	\$250,000
239 Media center	1	AL	\$25,000.00	\$25,000
<b>240 E10 EQUIPMENT TOTAL</b>				<b>\$493,000</b>
241				
242				
<b>243 E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	SF	\$10.00	\$431,750
247				
248 cafeteria seating	536	SEAT	\$275.00	NIC
249				
250 Window treatment	16,672	SF	\$5.75	\$95,861
<b>251 E20 FURNISHINGS TOTAL</b>				<b>\$527,611</b>
252				
253				
<b>254 F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
<b>259 F20 SELECTIVE DEMOLITION</b>				
260				

**Hunnewell Addition**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	SF	\$12.50	\$0
263 Demolish existing building	0	SF	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	472	CY	\$37.00	\$17,447
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	283	CY	\$25.00	\$7,073
14 Perimeter foundation drain	1,200	LF	\$22.00	\$26,400
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	1,200	LF	\$75.00	\$90,000
19 Spread footing w/pier	85	EA	\$3,000.00	\$254,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	4,800	SF	\$42.50	\$204,000
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	339	EA	\$35.00	\$11,872
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	4,800	SF	\$5.00	\$24,000
29 Rigid insulation at retaining/foundation walls	4,800	SF	\$3.50	\$16,800
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$952,857</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
<b>37 No anticipated work</b>				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	30,245	SF	\$8.50	\$257,083
43 Misc. metals	30,245	SF	\$2.00	\$60,490
44 Steel framing; assume 13#/f5	378.6	TNS	\$3,400.00	\$1,287,215
45 Composite upper floor metal deck	30,245	SF	\$4.75	\$143,664
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	58,245	f5	\$0.35	\$20,386
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$1,928,137</b>
<b>52</b>				
<b>53</b>				
<b>54 B20 EXTERIOR CLOSURE</b>				
<b>55</b>				
56	<i>Total exterior closure coverage</i>	<b>32,400</b>	<i>sf</i>	
57	<i>Miscellaneous Exterior</i>	<b>8,100</b>	<i>sf</i>	
58	<i>Masonry</i>	<b>11,340</b>	<i>sf</i>	
59	<i>New glass; assume 40%</i>	<b>12,960</b>	<i>sf</i>	
<b>60</b>				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
61 Masonry exterior wall system	11,340	SF	\$50.00	\$567,000
62 Curtain wall	3,240	SF	\$110.00	\$356,400
63 Storefront	1,944	SF	\$90.00	\$174,960
64 Punch windows	7,776	SF	\$80.00	\$622,080
65 Miscellaneous exterior	8,100	SF	\$50.00	\$405,000
66 Exterior closure articulation and detailing	19,440	SF	\$5.00	\$97,200
67 Aluminum sunshades	3,240	SF	\$75.00	\$243,000
68 Roof screens	1	LS	\$150,000.00	\$150,000
69 Restore masonry to remain	0	SF	\$30.00	\$0
70 Aluminum entry door	10	LEAF	\$3,500.00	\$35,000
71 Powered door opener	4	LOC	\$2,500.00	\$10,000
72 Egress HM door	10	LEAF	\$1,650.00	\$16,500
73 Exterior folding overhead doors	2	EA	\$10,000.00	\$20,000
74 Miscellaneous metals	19,440	SF	\$3.00	\$58,320
75 Blocking at openings	21,060	SF	\$3.50	\$73,710
76 Through wall sheet mtl flashing	19,440	SF	\$0.35	\$6,804
77 Caulking and sealants	19,440	SF	\$1.90	\$36,936
78 Louvers	500	SF	\$55.00	\$27,500
79 Elevator vent	1	EA	\$1,500.00	\$1,500
<b>80 B20 EXTERIOR CLOSURE TOTAL</b>				<b>\$2,901,910</b>
81				
82				
<b>83 B30 ROOFING</b>				
84				
85 Flat membrane roofing system	28,000	SF	\$15.50	\$434,000
86 Premium for green roofs	2,500	SF	\$15.00	\$37,500
87 Rough blocking to roof	29,400	SF	\$1.00	\$29,400
88 Miscellaneous roof accessories	1	LS	\$50,000.00	\$50,000
89 Remove and replace membrane roofing	0	SF	\$19.00	\$0
<b>90 B30 ROOFING TOTAL</b>				<b>\$550,900</b>
91				
92				
<b>93 C10 INTERIOR CONSTRUCTION</b>				
94				
95 8" CMU interior partitions	11,649	SF	\$23.00	\$267,927
96 8" CMU elevator shaft wall	2,540	SF	\$23.00	\$58,409
97 Misc metals for lintels, restraints	14,189	SF	\$2.00	\$28,377
98 Drywall partitions	46,596	SF	\$8.50	\$396,066
99 Chase walls	6,987	SF	\$12.00	\$83,849
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	58,245	f5	\$1.00	\$58,245
105 Interior caulking	58,245	f5	\$0.35	\$20,386
106 Top-of-partition firestopping	58,245	f5	\$0.15	\$8,737
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	60	EA	\$1,200.00	\$72,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
112 Paint door and frame	70	OPEN	\$100.00	\$7,000
113 Blocking at doors	1,260	LF	\$2.50	\$3,150

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
119 Miscellaneous signage	58,245	f5	\$0.40	\$23,298
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	58,245	f5	\$0.75	\$43,684
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	7	EA	\$500.00	\$3,500
126 Tackboards, markerboards, whiteboards	58,245	f5	\$0.75	\$43,684
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
129 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$1,976,050</b>
130				
131				
132 <b>C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
137 <b>C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
140 <b>C30 INTERIOR FINISHES</b>				
141				
142 <i>Wall Finishes</i>	58,245	SF	\$5.68	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	75	SF	\$20.00	\$1,500
152 Paint walls	108,020	SF	\$1.25	\$135,025
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	58,245	SF	\$10.96	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	1,460	SF	\$1.25	\$1,825
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
168 Remainder of program spaces	16,343	SF	\$5.00	\$81,714
169 Wall base	9,000	LF	\$2.50	\$22,500
170				
171 <i>Ceiling Finishes</i>	<b>58,245</b>	<b>SF</b>	<b>\$8.74</b>	
172 ACT ceiling, generally	8,487	SF	\$4.50	\$38,192
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	20,386	SF	\$12.00	\$244,629
176 Exposed structure	15,460	SF	\$1.50	\$23,190
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,329,034</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	58,245	SF	\$0.25	\$14,561
193 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	58,245	SF	\$6.00	\$349,470
195 <b>D20 PLUMBING TOTAL</b>				<b>\$374,031</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	58,245	SF	\$0.35	\$20,386
199 Coring, sleeves, penetrations, sealants	1	LS	\$20,000.00	\$20,000
200 Equipment, ducting, piping, controls	58,245	SF	\$30.00	\$1,747,350
201 <b>D30 HVAC TOTAL</b>				<b>\$1,787,736</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$5,000.00	\$5,000
205 Equipment, piping, sprinklers	58,245	SF	\$3.60	\$209,682
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$214,682</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
212 Cut and drop existing equipment and fixtures	0	f5	\$0.50	\$0
213 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	58,245	f5	\$30.00	\$1,747,350
<b>215 D50 ELECTRICAL TOTAL</b>				<b>\$1,757,350</b>
216				
217				
<b>218 E10 EQUIPMENT</b>				
219				
<b>220 E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550
229 Rope hoist	1	EA	\$500.00	\$500
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	f5	\$250.00	\$250,000
239 Media center	1	AL	\$25,000.00	\$25,000
<b>240 E10 EQUIPMENT TOTAL</b>				<b>\$493,000</b>
241				
242				
<b>243 E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	f5	\$10.00	\$431,750
247				
248 cafeteria seating	536	SEAT	\$275.00	NIC
249				
250 Window treatment	21,059	SF	\$5.75	\$121,089
<b>251 E20 FURNISHINGS TOTAL</b>				<b>\$552,839</b>
252				
253				
<b>254 F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
<b>259 F20 SELECTIVE DEMOLITION</b>				
260				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	f5	\$12.50	\$0
263 Demolish existing building	0	f5	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
<b>8 A10 FOUNDATIONS</b>				
<b>9</b>				
<b>10 Earthwork</b>				
11 Excavate, haul, disposal for foundations, pits	588	CY	\$37.00	\$21,763
12 Dewatering during excavation	1	LS	\$10,000.00	\$10,000
13 Imported backfill around new foundations	353	CY	\$25.00	\$8,823
14 Perimeter foundation drain	1,500	LF	\$22.00	\$33,000
15 Gravel base to slab on grade	730	CY	\$28.00	\$20,428
<b>16</b>				
<b>17 Concrete</b>				
18 Strip footing at perimeter	1,500	LF	\$75.00	\$112,500
19 Spread footing w/pier	95	EA	\$3,000.00	\$284,400
20 Foundation walls; assume 12" thick x 4' 0" high typ.	6,000	SF	\$42.50	\$255,000
21 Elevator pit	1	EA	\$2,500.00	\$2,500
22 Slab on grade w/vapor barrier	28,000	SF	\$6.50	\$182,000
23 Housekeeping & mechanical equipment pads	1	LS	\$5,000.00	\$5,000
24 Anchor bolt setting	379	EA	\$35.00	\$13,272
<b>25</b>				
<b>26 Thermal &amp; Moisture Protection</b>				
27 Waterproofing elevator pit	225	SF	\$17.50	\$3,938
28 Damp proofing to foundation walls	6,000	SF	\$5.00	\$30,000
29 Rigid insulation at retaining/foundation walls	6,000	SF	\$3.50	\$21,000
30 Rigid insulation under slab	28,000	SF	\$2.75	\$77,000
<b>31</b>				
<b>32 A10 FOUNDATIONS TOTAL</b>				<b>\$1,080,623</b>
<b>33</b>				
<b>34</b>				
<b>35 A20 BASEMENT</b>				
<b>36</b>				
37 No anticipated work				
<b>38</b>				
<b>39</b>				
<b>40 B10 STRUCTURE</b>				
<b>41</b>				
42 Concrete topping to metal deck	42,300	SF	\$8.50	\$359,550
43 Misc. metals	42,300	SF	\$2.00	\$84,600
44 Steel framing; assume 13#/f5	457.0	TNS	\$3,400.00	\$1,553,630
45 Composite upper floor metal deck	42,300	SF	\$4.75	\$200,925
46 Fireproof	1	LS	\$20,000.00	\$20,000
47 Metal roof deck	29,400	SF	\$4.50	\$132,300
48 Premium for roof deck; gym	3,500	SF	\$2.00	\$7,000
<b>49</b>				
50 Firestopping	70,300	f5	\$0.35	\$24,605
<b>51 B10 STRUCTURE TOTAL</b>				<b>\$2,382,610</b>
<b>52</b>				
<b>53</b>				
<b>54 B20 EXTERIOR CLOSURE</b>				
<b>55</b>				
56	Total exterior closure coverage	40,500	sf	
57	Miscellaneous Exterior	10,125	sf	
58	Masonry	14,175	sf	
59	New glass; assume 40%	16,200	sf	
<b>60</b>				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
61 Masonry exterior wall system	14,175	SF	\$50.00	\$708,750
62 Curtain wall	4,050	SF	\$110.00	\$445,500
63 Storefront	2,430	SF	\$90.00	\$218,700
64 Punch windows	9,720	SF	\$80.00	\$777,600
65 Miscellaneous exterior	10,125	SF	\$50.00	\$506,250
66 Exterior closure articulation and detailing	24,300	SF	\$5.00	\$121,500
67 Aluminum sunshades	4,050	SF	\$75.00	\$303,750
68 Roof screens	1	LS	\$150,000.00	\$150,000
69 Restore masonry to remain	0	SF	\$30.00	\$0
70 Aluminum entry door	10	LEAF	\$3,500.00	\$35,000
71 Powered door opener	4	LOC	\$2,500.00	\$10,000
72 Egress HM door	10	LEAF	\$1,650.00	\$16,500
73 Exterior folding overhead doors	2	EA	\$10,000.00	\$20,000
74 Miscellaneous metals	24,300	SF	\$3.00	\$72,900
75 Blocking at openings	26,325	SF	\$3.50	\$92,138
76 Through wall sheet mtl flashing	24,300	SF	\$0.35	\$8,505
77 Caulking and sealants	24,300	SF	\$1.90	\$46,170
78 Louvers	500	SF	\$55.00	\$27,500
79 Elevator vent	1	EA	\$1,500.00	\$1,500
<b>80 B20 EXTERIOR CLOSURE TOTAL</b>				<b>\$3,562,263</b>
81				
82				
<b>83 B30 ROOFING</b>				
84				
85 Flat membrane roofing system	28,000	SF	\$15.50	\$434,000
86 Premium for green roofs	2,500	SF	\$15.00	\$37,500
87 Rough blocking to roof	29,400	SF	\$1.00	\$29,400
88 Miscellaneous roof accessories	1	LS	\$50,000.00	\$50,000
89 Remove and replace membrane roofing	0	SF	\$19.00	\$0
<b>90 B30 ROOFING TOTAL</b>				<b>\$550,900</b>
91				
92				
<b>93 C10 INTERIOR CONSTRUCTION</b>				
94				
95 8" CMU interior partitions	14,060	SF	\$23.00	\$323,380
96 8" CMU elevator shaft wall	2,540	SF	\$23.00	\$58,409
97 Misc metals for lintels, restraints	16,600	SF	\$2.00	\$33,199
98 Drywall partitions	56,240	SF	\$8.50	\$478,040
99 Chase walls	8,434	SF	\$12.00	\$101,208
100 Premium of new construction in existing building	0	SF	\$1.50	\$0
101 Interior storefront system	4,200	SF	\$80.00	\$336,000
102 Interior windows and glazing	100	SF	\$75.00	\$7,500
103 Operable folding partitions	2,484	SF	\$60.00	\$149,040
104 Rough carpentry internal partitions and ceilings	70,300	SF	\$1.00	\$70,300
105 Interior caulking	70,300	SF	\$0.35	\$24,605
106 Top-of-partition firestopping	70,300	SF	\$0.15	\$10,545
107				
108 Interior aluminum entry door	10	PR	\$7,000.00	\$70,000
109 Hollow metal door, frame and hardware	70	EA	\$1,200.00	\$84,000
110 Pair of doors	10	PR	\$2,400.00	\$24,000
111 Glass sidelights and door glazing	1,000	SF	\$35.00	\$35,000
112 Paint door and frame	80	OPEN	\$100.00	\$8,000
113 Blocking at doors	1,440	LF	\$2.50	\$3,600

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
114 Access doors	100	EA	\$250.00	\$25,000
115				
116 Commemorative plaque	2	LOC	\$1,500.00	\$3,000
117 Dimensional characters; School name	1	AL	\$5,000.00	\$5,000
118 Plastic panel signs for room identification, way finding, hazard identification	1	AL	\$7,500.00	\$7,500
119 Miscellaneous signage	70,300	SF	\$0.40	\$28,120
120 Interior guardrails and handrails	150	LF	\$200.00	\$30,000
121 Stainless steel corner guards	1	LS	\$1,500.00	\$1,500
122 Toilet compartments, toilet accessories	70,300	SF	\$0.75	\$52,725
123 Lockers	536	EA	\$275.00	\$147,400
124 Athletic lockers	100	EA	\$65.00	\$6,500
125 Fire extinguisher and cabinet	9	EA	\$500.00	\$4,500
126 Tackboards, markerboards, whiteboards	70,300	SF	\$0.75	\$52,725
127 Motorized projection screen, Cafetorium	1	EA	\$7,500.00	\$7,500
128 Motorized projection screen, Admin/Conference	1	EA	\$2,800.00	\$2,800
129 <b>C10 INTERIOR CONSTRUCTION TOTAL</b>				<b>\$2,191,096</b>
130				
131				
132 <b>C20 STAIRCASES</b>				
133				
134 Commons vertical circulation	1	FLT	\$35,000.00	\$35,000
135 Egress stairs, railings and flooring	2	FLT	\$18,000.00	\$36,000
136 Upgrade existing egress stair to code compliance	0	FLT	\$15,000.00	\$0
137 <b>C20 STAIRCASES TOTAL</b>				<b>\$71,000</b>
138				
139				
140 <b>C30 INTERIOR FINISHES</b>				
141				
142 <i>Wall Finishes</i>	70,300	SF	\$5.68	
143 Ceramic tile walls	1,250	SF	\$20.00	\$25,000
144 Wall tile in corridors	10,800	SF	\$20.00	\$216,000
145 Plastic coated fiberglass panels; Kitchen	1,000	SF	\$15.00	\$8,460
146 Fixed sound absorbing wood fiber panels; Cafeteria	200	SF	\$13.75	\$2,750
147 Wall paneling; Media Center	1,000	SF	\$25.00	\$25,000
148 Fixed sound-absorbing wood fiber/fabric; Gym	1,500	SF	\$15.00	\$22,500
149 Wall safety pads	900	SF	\$20.00	\$18,000
150 Removable wall pads	200	SF	\$25.00	\$5,000
151 Wall pads with cutout for MEH units	75	SF	\$20.00	\$1,500
152 Paint walls	129,750	SF	\$1.25	\$162,188
153				
154 <i>Floor Finishes</i>				
155 Floor prep of existing to remain floor plates	70,300	SF	\$10.96	
156 Art Rooms	5,750	SF	\$6.00	\$34,500
157 Cafetorium	4,000	SF	\$6.00	\$24,000
158 Multi-purpose	4,000	SF	\$6.00	\$24,000
159 Large Rooms	3,000	SF	\$6.00	\$18,000

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
160 Commons	3,600	SF	\$6.00	\$21,600
161 Entrance vestibule	500	SF	\$35.00	\$17,500
162 Gymnasium	6,000	SF	\$15.00	\$90,000
163 Kitchen	1,900	SF	\$17.00	\$32,300
164 Media Center	3,630	SF	\$15.00	\$54,450
165 MEP support spaces	1,760	SF	\$1.25	\$2,200
166 Restrooms	2,500	SF	\$15.00	\$37,500
167 Tech labs	2,650	SF	\$6.00	\$15,900
168 Remainder of program spaces	27,495	SF	\$5.00	\$137,475
169 Wall base	10,810	LF	\$2.50	\$27,025
170				
171 <i>Ceiling Finishes</i>	70,300	SF	\$8.74	
172 ACT ceiling, generally	15,420	SF	\$4.50	\$69,390
173 Moisture resistant	4,400	SF	\$5.00	\$22,000
174 Cafeteria, Commons	6,600	SF	\$10.00	\$66,000
175 GWB ceilings and soffits; assume 35% of f5	24,605	SF	\$12.00	\$295,260
176 Exposed structure	15,760	SF	\$1.50	\$23,640
177 <b>C30 INTERIOR FINISHES TOTAL</b>				<b>\$1,499,138</b>
178				
179				
180 <b>D10 CONVEYING SYSTEMS</b>				
181				
182 Elevator, cab; 2 stop, single opening	1	EA	\$100,000.00	\$100,000
183 Elevator pit ladder	1	EA	\$1,500.00	\$1,500
184 Sill angles	2	EA	\$175.00	\$350
185 Hoist beam	1	EA	\$350.00	\$350
186 <b>D10 CONVEYING SYSTEMS TOTAL</b>				<b>\$102,200</b>
187				
188				
189 <b>D15 MECHANICAL</b>				
190				
191 <b>D20 PLUMBING</b>				
192 Cut and drop existing equipment and fixtures	70,300	SF	\$0.25	\$17,575
193 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
194 Equipment, fixtures, piping, roof drains & storm, gas piping, kitchen rough-in & hook-ups	70,300	SF	\$6.00	\$421,800
195 <b>D20 PLUMBING TOTAL</b>				<b>\$449,375</b>
196				
197 <b>D30 HVAC</b>				
198 Cut and drop existing equipment and fixtures	70,300	SF	\$0.35	\$24,605
199 Coring, sleeves, penetrations, sealants	1	LS	\$20,000.00	\$20,000
200 Equipment, ducting, piping, controls	70,300	SF	\$30.00	\$2,109,000
201 <b>D30 HVAC TOTAL</b>				<b>\$2,153,605</b>
202				
203 <b>D40 FIRE PROTECTION</b>				
204 Coring, sleeves, penetrations, sealants	1	LS	\$5,000.00	\$5,000
205 Equipment, piping, sprinklers	70,300	SF	\$3.60	\$253,080
206 <b>D40 FIRE PROTECTION TOTAL</b>				<b>\$258,080</b>
207				
208				
209 <b>D50 ELECTRICAL</b>				
210				
211 <b>D5011 SERVICE &amp; DISTRIBUTION</b>				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
212 Cut and drop existing equipment and fixtures	70,300	SF	\$0.50	\$35,150
213 Coring, sleeves, penetrations, sealants	1	LS	\$10,000.00	\$10,000
214 Gear & distribution, generator power, lighting, power, low voltage systems, AV & performance equipment rough-in, lightning protection	70,300	SF	\$30.00	\$2,109,000
<b>215 D50 ELECTRICAL TOTAL</b>				<b>\$2,154,150</b>
216				
217				
<b>218 E10 EQUIPMENT</b>				
219				
<b>220 E1020 INSTITUTIONAL EQUIPMENT</b>				
221 <i>Gymnasium equipment</i>			\$68,000	
222 Electronic scoreboard	1	EA	\$7,500.00	\$7,500
223 Shot clock/shot timer	1	EA	\$1,250.00	\$1,250
224 Cargo net	1	LS	\$2,500.00	\$2,500
225 Pull up bar	1	EA	\$850.00	\$850
226 Stall bar	1	EA	\$850.00	\$850
227 Pegged board vertical climber	1	EA	\$1,000.00	\$1,000
228 Vertical ladder	1	EA	\$550.00	\$550
229 Rope hoist	1	EA	\$500.00	\$500
230 Overhead mounted folding backstop w/glass backboard	2	EA	\$6,500.00	\$13,000
231 Gym divider curtains	1	EA	\$35,000.00	\$35,000
232 Gym equipment controls-power touch	1	LS	\$5,000.00	\$5,000
233				
234 Art Rooms	1	AL	\$50,000.00	\$50,000
235 Cafetorium	1	RM	\$50,000.00	\$50,000
236 Stage	1	LOC	\$25,000.00	\$25,000
237 Classroom audio-visual	10	RM	\$2,500.00	\$25,000
238 Kitchen	1,000	SF	\$250.00	\$250,000
239 Media center	1	AL	\$25,000.00	\$25,000
<b>240 E10 EQUIPMENT TOTAL</b>				<b>\$493,000</b>
241				
242				
<b>243 E20 FURNISHINGS</b>				
244				
245 <i>Millwork, casework, standing and running trim, misc. metals</i>				
246 Academic and SPED	43,175	SF	\$10.00	\$431,750
247				
248 cafeteria seating	536	SEAT	\$275.00	NIC
249				
250 Window treatment	26,324	SF	\$5.75	\$151,363
<b>251 E20 FURNISHINGS TOTAL</b>				<b>\$583,113</b>
252				
253				
<b>254 F10 SPECIAL CONSTRUCTION</b>				
255				
256 No anticipated work				
257				
258				
<b>259 F20 SELECTIVE DEMOLITION</b>				
260				

**Upham New**

DESCRIPTION	QUANTITY	UNIT	UNIT COST	COST
261 <b>F2020 SELECTIVE DEMOLITION</b>				
262 Gut all architectural fit-out	0	SF	\$12.50	\$0
263 Demolish existing building	0	SF	\$0.75	\$0
264 Haz mat removal allowance				Div G10
265 <b>F20 SELECTIVE DEMOLITION TOTAL</b>				<b>\$0</b>
266				

**GARAGE SUMMARY**

DESCRIPTION	TRADE COST	COST/SF
03 30 00 Cast-in-Place Concrete	\$1,593,148	\$16.60
03 41 00 Precast Structural Concrete	\$1,859,520	\$19.37
<b>03-CONCRETE TOTAL</b>	<b>\$3,452,668</b>	<b>\$35.97</b>
04 20 00 Unit Masonry Assemblies	\$186,304	\$1.94
<b>04-MASONRY TOTAL</b>	<b>\$186,304</b>	<b>\$1.94</b>
05 12 00 Structural Steel	\$60,000	\$0.63
05 30 00 Metal Roof Decking	\$10,500	\$0.11
05 50 00 Metal Fabrications	\$121,610	\$1.27
<b>05-METALS TOTAL</b>	<b>\$192,110</b>	<b>\$2.00</b>
07 13 26 Self-Adhering Sheet Waterproofing	\$1,638	\$0.02
07 16 13 Polymer Modified-Cement Waterproofing	\$2,000	\$0.02
07 42 43 Composite Wall Panels	\$0	\$0.00
07 50 00 Roofing	\$32,250	\$0.34
<b>07-THERMAL AND MOISTURE PROTECTION TOTAL</b>	<b>\$35,888</b>	<b>\$0.37</b>
08 10 00 Hollow Metal Doors and Frames	\$4,000	\$0.04
08 40 00 Aluminum-Framed Entrances & Storefronts	\$35,000	\$0.36
08 70 00 Door Hardware	\$2,400	\$0.03
<b>08-DOORS AND WINDOWS TOTAL</b>	<b>\$41,400</b>	<b>\$0.43</b>
09 90 00 Painting	\$27,741	\$0.29
<b>09-FINISHES TOTAL</b>	<b>\$27,741</b>	<b>\$0.29</b>
10 14 00 Signage	\$43,200	\$0.45
10 44 06 Fire Extinguishers and Cabinets	\$1,800	\$0.02
<b>10-SPECIALTIES TOTAL</b>	<b>\$45,000</b>	<b>\$0.47</b>
11 15 00 Parking Control Equipment	NIC	
<b>11- EQUIPMENT TOTAL</b>	<b>\$0</b>	<b>\$0.00</b>
14 20 00 Elevator	\$100,000	\$1.04
<b>14-CONVEYING SYSTEM TOTAL</b>	<b>\$100,000</b>	<b>\$1.04</b>
21 00 00 Fire Protection	\$372,350	\$3.88
22 0001-Plumbing	\$64,200	\$0.67
23 0001-HVAC	\$20,000	\$0.21
<b>21, 22, 23-MECHANICAL TOTAL</b>	<b>\$456,550</b>	<b>\$4.76</b>
26 0001 Electrical	\$394,000	\$4.10
<b>26-ELECTRICAL TOTAL</b>	<b>\$394,000</b>	<b>\$4.10</b>

**GARAGE SUMMARY**

DESCRIPTION	TRADE COST	COST/SF
31 00 00 Earthwork	\$234,485	\$2.44
<b>31 SITE EARTHWORK TOTAL</b>	<b>\$234,485</b>	<b>\$2.44</b>
<b>Direct Trade Cost SubTotal</b>	<b>\$5,166,145</b>	<b>\$53.81</b>

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
9	<b>03-CONCRETE</b>			
10				
11	<b>03 30 00 Cast-in-Place Concrete</b>			
12	Concrete to:			
13	81	CY	\$115.00	\$9,315
14	162	CY	\$115.00	\$18,630
15	54	CY	\$115.00	\$6,210
16	933	CY	\$125.00	\$116,625
17	317	CY	\$135.00	\$42,795
18	1,547	CY	\$80.00	\$123,760
19	Reinforcing to:			
20	12,150	LBS	\$1.05	\$12,758
21	16,200	LBS	\$1.05	\$17,010
22	8,100	LBS	\$1.05	\$8,505
23	50,400	SF	\$0.75	\$37,800
24	50,400	SF	\$0.75	\$37,800
25	Formwork:			
26	2,184	SF	\$7.50	\$16,380
27	8,736	SF	\$6.50	\$56,784
28	968	SF	\$9.00	\$8,712
29	50,400	SF	\$2.50	\$126,000
30	50,400		\$2.50	\$126,000
31	<u>Miscellaneous:</u>			
32	55,392	SF	\$12.00	\$664,704
33	48,000	SF	\$0.50	\$24,000
34	48,000	SF	\$1.00	\$48,000
35	3,072	LF	\$5.00	\$15,360
36	1,920	LF	\$25.00	\$48,000
37	1	LS	\$3,000.00	\$3,000
38	1	LS	\$5,000.00	\$5,000
39	1	LS	\$20,000.00	\$20,000
40	<b>03 30 00 Cast-in-Place Concrete total</b>			<b>\$1,593,148</b>
41				
42	<b>03 41 00 Precast Structural Concrete</b>			
43	48,000	SF	\$28.00	\$1,344,000
44	48,000	SF	\$3.50	\$168,000
45	96,000	SF	\$0.50	\$48,000
46	6,240	SF	\$48.00	\$299,520
47	<b>03 41 00 Precast Structural Concrete total</b>			<b>\$1,859,520</b>
48				
49				
50	<b>04-MASONRY</b>			
51				
52	<b>04 20 00 Unit Masonry Assemblies</b>			

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
53 Scaffolding	8,237	SF	\$3.50	\$28,830
54 12" CMU wall @ lower level	2,184	SF	\$20.00	\$43,680
55 8" CMU wall @ lower level	3,633	SF	\$18.00	\$65,394
56 12" CMU at Elevator shaft wall	880	SF	\$20.00	\$17,600
57 12" CMU at stair	1,540	SF	\$20.00	\$30,800
58 <b>04 20 00 Unit Masonry Assemblies total</b>				\$186,304
59				
60				
61 <b>05-METALS</b>				
62				
63 <b>05 12 00 Structural Steel</b>				
64 Structural steel for roof - at 10 lbs / sq. ft	15.0	TON	\$4,000.00	\$60,000
65 <b>05 12 00 Structural Steel total</b>				\$60,000
66				
67 <b>05 30 00 Metal Roof Decking</b>				
68 Metal deck for roof	3,000	SF	\$3.50	\$10,500
69 <b>05 30 00 Metal Roof Decking total</b>				\$10,500
70				
71 <b>05 50 00 Metal Fabrications</b>				
72 Elevator pit ladder and sill angles	1	SET	\$2,250.00	\$2,250
73 Metal guardrail and support at ramp	312	LF	\$80.00	\$24,960
74 Pipe bollards allowance	16	EA	\$400.00	\$6,400
75 Impact protection barriers allowance	500	LF	\$70.00	\$35,000
76 Metal staircases with wall mounted handrails and balustrades	4	FLTS	\$11,500.00	\$46,000
77 Misc metals not identified above	2	TNS	\$3,500.00	\$7,000
78 <b>05 50 00 Metal Fabrications total</b>				\$121,610
79				
80				
81 <b>07-THERMAL AND MOISTURE PROTECTION</b>				
82				
83 <b>07 13 26 Self-Adhering Sheet Waterproofing</b>				
84 Dampproof foundations	1,092	SF	\$1.50	\$1,638
85 <b>07 13 26 Self-Adhering Sheet Waterproofing total</b>				\$1,638
86				
87 <b>07 16 13 Polymer Modified-Cement Waterproofing</b>				
88 Crystalline waterproofing to elevator pits	1	EA	\$2,000.00	\$2,000
89 <b>07 16 13 Polymer Modified-Cement Waterproofing total</b>				\$2,000
90				
91 <b>07 42 43 Composite Wall Panels</b>				
92 Included in storefront price		SF		\$0
93 <b>07 42 43 Composite Wall Panels total</b>				
94				
95 <b>07 50 00 Roofing</b>				
96 Roof, densdeck	3,000	SF	\$10.75	\$32,250

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
97 <b>07 50 00 Roofing total</b>				\$32,250
98				
99				
100 <b>08-DOORS AND WINDOWS</b>				
101				
102 <b>08 10 00 Hollow Metal Doors and Frames</b>				
103 Single metal door & frames	4	EA	\$1,000.00	\$4,000
104 <b>08 10 00 Hollow Metal Doors and Frames total</b>				\$4,000
105				
106 <b>08 40 00 Aluminum-Framed Entrances &amp; Storefronts</b>				
107 Aluminum panel / storefront system	220	SF	\$70.00	\$15,400
108 Entrance or vestibule doors, glazed single	2	PR	\$7,000.00	\$14,000
109 Premium for electric operation	2	EA	\$2,800.00	\$5,600
110 <b>08 40 00 Aluminum-Framed Entrances &amp; Storefronts total</b>				\$35,000
111				
112 <b>08 70 00 Door Hardware</b>				
113 Hardware sets, average cost	4	SETS	\$600.00	\$2,400
114 <b>08 70 00 Door Hardware total</b>				\$2,400
115				
116				
117 <b>09-FINISHES</b>				
118				
119 <b>09 90 00 Painting</b>				
120 Paint CMU walls	11,946	SF	\$1.00	\$11,946
121 Paint door and frame	4	LEAF	\$105.00	\$420
122 Parking stall painting, type.	275	EA	\$15.00	\$4,125
123 Parking stall -accessible	5	EA	\$250.00	\$1,250
124 Msic pavement painting	1	LS	\$5,000.00	\$5,000
125 Painting metal surfaces ( stairs, handrails etc)	1	LS	\$5,000.00	\$5,000
126 <b>09 90 00 Painting total</b>				\$27,741
127				
128				
129 <b>10-SPECIALTIES</b>				
130				
131 <b>10 14 00 Signage</b>				
132 Signage required by code	96,000	SF	\$0.45	\$43,200
133 <b>10 14 00 Signage total</b>				\$43,200
134				
135 <b>10 44 06 Fire Extinguishers and Cabinets</b>				
136 Fire extinguishers,	4	EA	\$450.00	\$1,800
137 <b>10 44 06 Fire Extinguishers and Cabinets total</b>				\$1,800
138				
139				
140 <b>11- EQUIPMENT</b>				

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
141				
142 <b>11 15 00 Parking Control Equipment</b>				
143 Parking access and revenue control				NIC
144 <b>11 15 00 Parking Control Equipment total</b>				NIC
145				
146				
147 <b>14-CONVEYING SYSTEM</b>				
148				
149 <b>14 20 00 Elevator</b>				
150 Elevator, 2 stops	1	EA	\$100,000	\$100,000
151 <b>14 20 00 Elevator total</b>				\$100,000
152				
153				
154 <b>21, 22, 23-MECHANICAL</b>				
155				
156 <b>21 00 00 Fire Protection</b>				
157 Sprinkler Coverage	96,000	SF	\$3.00	\$288,000
158 Dry Alarm Valve w/compressor	-	EA	N/A	\$0
159 Fire Dept. Connections	2	EA	\$2,500.00	\$5,000
160 FDV w/ 6" standpipe (two standpipes)	10	EA	\$1,500.00	\$15,000
161 Main piping:				
162 - 6"	700	LF	\$85.00	\$59,500
163 Coring, Sleeves & sleeves	1	LS	\$1,250.00	\$1,250
164 Lift	1	LS	\$1,000.00	\$1,000
165 Permits & Fees	1	LS	\$750.00	\$750
166 Shop drawings/hydraulic calculations	1	LS	\$1,850.00	\$1,850
167 <b>21 00 00 Fire Protection total</b>				\$372,350
168				
169 <b>22 0001-Plumbing</b>				
170 Oily Water Separator	1	EA	\$10,000.00	\$10,000
171 Trench Drains	1	LS	\$12,000.00	\$12,000
172 Floor Drains ( garage )	8	EA	\$3,000.00	\$24,000
173 Roof Drains	2	EA	\$4,800.00	\$9,600
174 Permits & Fees	1	EA	\$2,000.00	\$2,000
175 Test and sterilize	1	EA	\$2,100.00	\$2,100
176 Shop drawings	1	EA	\$4,500.00	\$4,500
177 <b>22 0001-Plumbing total</b>				\$64,200
178				
179 <b>23 0001-HVAC</b>				
180 Exhaust	1	LS	\$20,000.00	\$20,000
181 <b>23 0001-HVAC total</b>				\$20,000
182				
183				
184 <b>26-ELECTRICAL</b>				

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
185				
186 <b>26 0001 Electrical</b>				
187 Allow for "Plug-In" Electric cars	4	LOC	\$2,500.00	\$10,000
188 Electrical allowance	96,000	SF	\$4.00	\$384,000
189 <b>26 0001 Electrical total</b>				\$394,000
190				
191				
192 <b>31 SITE EARTHWORK</b>				
193				
194 <b>31 00 00 Earthwork</b>				
195 Rough grade for slab on grade	55,200	SF	\$0.70	\$38,640
196 New foundation excavation	2,030	CY	\$11.00	\$22,330
197 Backfill, using imported clean fill	739	CY	\$24.00	\$17,724
198 Disposal off site	1,227	CY	\$18.00	\$22,085
199 Elevator pit excavation	1	EA	\$3,800.00	\$3,800
200 Perimeter foundation drainage allowance	1,040	LF	\$15.00	\$15,600
201 Crushed stone base to slab	1,310	CY	\$30.00	\$39,307
202 De-watering	1	LS	\$25,000.00	\$25,000
203 Earthwork support	1	LS	\$50,000.00	\$50,000
204 <b>31 00 00 Earthwork total</b>				\$234,485
205				
206				
207			Subtotal:	\$5,166,145
208				

Symmes Maini & McKee  
Associates

SMMA