



Groton School Facilities Initiative

Building Construction Scenarios & Site Selection Update





Introduction

- Recap of Options from 7/25 Meeting
- Introduction –The S/L/A/M Collaborative
- Grant Reimbursement Overview
- Building Construction Scenarios for Consideration
- Workgroup Discussion – Consensus on Alternatives
- Update on Site Selection



Preferred Options Recap

Scenario 1: One Middle School	Build One New Middle School 6-8 (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
Scenario 2: Renovate Middle Schools & Build Two New Elementary	Renovate to New/Addition to West Side & Cutler MS (6-8 Config)
	Build Two New PreK-5 East Side / West Side (Site TBD)
	Close Claude Chester, Pleasant Valley, and S.B. Butler
Scenario 3: Two New Middle Schools	Build Two New 600 Student 6-8 Middle Schools (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler



SLAM – Firm Profile



Total Staff of 160

- Large firm – Small studios
- Dedicated Education Studio
- Stability: Staff, Management, Financial
- Industry Reputation, Client Satisfaction

Multidisciplinary Firm

- Architecture
- Interior Design
- Programming & Planning
- Landscape Architecture
- Structural Engineering
- Cost Estimating Services
- Construction Management

In-house Firm Specialties

- Cost Modeling/ Planning
- Sustainable Design
- Building Information Modeling (BIM)
- Certified Specifications
- Building Analysis
- Code Expertise



SLAM – Firm Profile

Everybody has...

- PE Experience
- Design Expertise
- BSF Experience
- Design Awards
- Etc.

Only SLAM provides:

- **Integrated Approach**
 - Team of Experts
- **Building Information Modeling**
 - Documentation & more
- **Construction Services Studio**
 - Cost Modeling
 - Constructability
 - Pragmatic Approach
- **Programming Leadership**
 - Classroom to Career



Reimbursement Overview

- Groton Reimbursement Rate trending downward since 2012

	School Construction (20 – 80%)	New School Construction (10 – 70%)
2012:	57.50	47.50
2013:	56.79	46.79
2014:	56.07	46.07



Cost Modeling Assumptions

- Larger enrollment building area aligns with state space standards
- Smaller enrollment building areas are slightly higher than state space standards
- Building areas not based on Ed. Spec. program
- Estimated state reimbursement based on 2014 reimbursement rates
- Includes High Performance Design to meet CT HPDS (16a-38k)



Cost Modeling Assumptions

- Construction Manager at Risk delivery
- Escalated at 3% for remainder of 2013 and 4% per year from 2014 forward
- No Project Labor Agreement (PLA)
- Excludes Hazardous Building Material abatement costs
- Excludes site acquisition costs
- Groton proceeds “At Risk” with A/E design services after successful referendum to achieve proposed schedules



Scenario 1 Overview

Scenario 1: One Middle School	Build One New Middle School (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
	Remove Claude Chester, Pleasant Valley, and S.B. Butler

**1,000
Students**

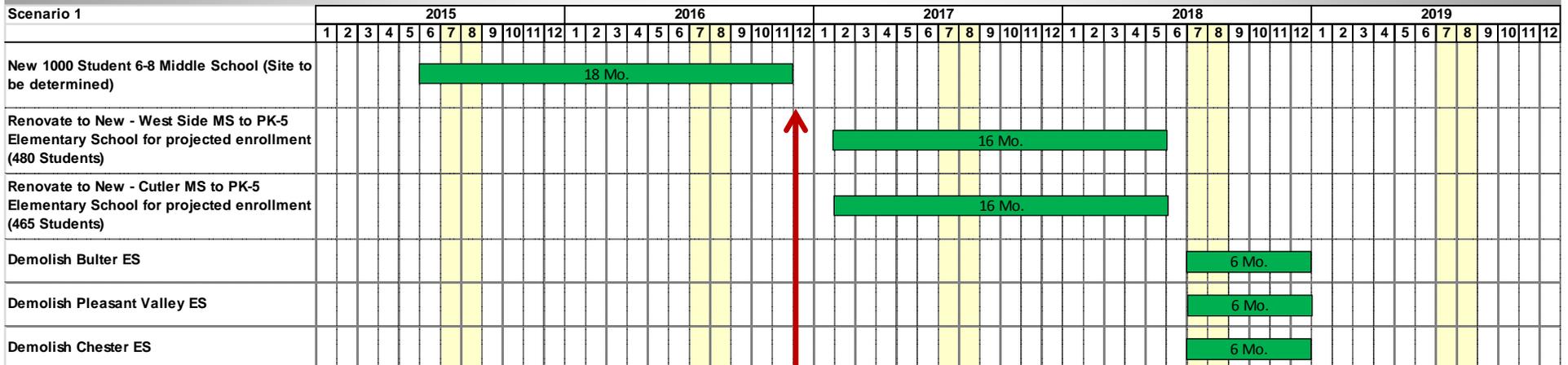
- Successive construction projects
- Significant escalation costs
- Possibility of needing to purchase one site
- Model includes the following site development allowances:
 - \$5 M for New Building
 - \$1.5 M for Renovate To New Buildings



Scenario 1 - One New Middle School

Scenario 1: One Middle School	Build One New Middle School (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
	Remove Claude Chester, Pleasant Valley, and S.B. Butler

1,000 Students



Mid-Year Move



Scenario 1 - One New Middle School

Updated: August 23, 2013

1,000 Students

Scenario 1: One Middle School	Build One New Middle School (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
	Remove Claude Chester, Pleasant Valley, and S.B. Butler

Scenario 1 Cost Breakdown		Gross Building Area	Total Project Cost	Net Cost to Groton
1	New 1000 Student 6-8 Middle School (Site to be determined)	170,000	\$ 76,015,152	\$ 40,994,971
2	Renovate to New - West Side MS to PK-5 Elementary School for projected enrollment (480 Students)	74,200	\$ 30,187,495	\$ 15,833,819
3	Renovate to New - Cutler MS to PK-5 Elementary School for projected enrollment (465 Students)	70,071	\$ 28,961,972	\$ 14,835,247
4	Demolish Bulter ES	37,450	\$ 1,296,226	\$ 1,296,226
5	Demolish Pleasant Valley ES	40,408	\$ 1,342,125	\$ 1,342,125
6	Demolish Chester ES	43,581	\$ 1,380,097	\$ 1,380,097
TOTAL:			\$ 139,183,069	\$ 75,682,486



Scenario 1A Overview

Scenario 1: One Middle School	Build One New Middle School (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
	Remove Claude Chester, Pleasant Valley, and S.B. Butler

**1,200
Students**

- Successive construction projects
- Longer construction duration for new school extends overall schedule
- Significant escalation costs
- Possibility of needing to purchase one site
- Includes the same site development allowances as Scenario 1



Scenario 1A - One New Middle School

Updated: August 23, 2013

1,200 Students

Scenario 1: One Middle School	Build One New Middle School (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler
	Remove Claude Chester, Pleasant Valley, and S.B. Butler

Scenario 1A Cost Breakdown		Gross Building Area	Total Project Cost	Net Cost to Groton
1	New 1200 Student 6-8 Middle School (Site to be determined)	204,000	\$ 89,240,737	\$ 48,127,529
2	Renovate to New - West Side MS to PK-5 Elementary School for projected enrollment (480 Students)	74,200	\$ 32,049,395	\$ 16,810,415
3	Renovate to New - Cutler MS to PK-5 Elementary School for projected enrollment (465 Students)	70,071	\$ 30,734,199	\$ 15,743,038
4	Demolish Bulter ES	37,450	\$ 1,313,862	\$ 1,313,862
5	Demolish Pleasant Valley ES	40,408	\$ 1,360,520	\$ 1,360,520
6	Demolish Chester ES	43,581	\$ 1,399,307	\$ 1,399,307
TOTAL:			\$ 156,098,019	\$ 84,754,670



Scenario 2 Overview

Scenario 2:	Renovate to New/Addition to West Side & Cutler MS (6-8 Config)
Renovate Middle Schools & Build Two New Elementary	Build Two New PreK-5 East Side / West Side (Site TBD)
	Close Claude Chester, Pleasant Valley, and S.B. Butler

- Concurrent construction projects
- Reduction in escalation costs, but requires Groton to fund and manage four projects simultaneously
- Possibility of needing to purchase two sites
- Model includes the following site development allowances:
 - \$3.5 M for New Building
 - \$1.5 M for Renovate To New Buildings



Scenario 2 - Two New PreK-5's

Updated: August 23, 2013

Scenario 2 Cost Breakdown		Gross Building Area	Total Project Cost	Net Cost to Groton
1	Renovate to New - West Side MS to 6-8 Facility for 500 Students	90,000	\$ 37,602,424	\$ 17,552,553
2	Renovate to New - Cutler MS to 6-8 Facility for 500 Students	90,000	\$ 38,045,542	\$ 17,759,397
3	New 500 Student PreK-5 Elementary School #1 (Site to be determined)	72,500	\$ 34,536,433	\$ 20,151,896
4	New 500 Student PreK-5 Elementary School #2 (Site to be determined)	72,500	\$ 34,536,433	\$ 20,151,896
5	Demolish Bulter ES	37,450	\$ 1,253,397	\$ 1,253,397
6	Demolish Pleasant Valley ES	40,408	\$ 1,297,452	\$ 1,297,452
7	Demolish Chester ES	43,581	\$ 1,333,446	\$ 1,333,446
8	Demolish Portables at Barnum ES	1,800	\$ 338,534	\$ 338,534
9	Demolish Portables at Morrison ES	1,800	\$ 338,534	\$ 338,534
TOTAL:			\$ 149,282,194	\$ 80,177,106



Scenario 3 Overview

Updated: August 23, 2013

Scenario 3: Two New Middle Schools	Build Two New 600 Student 6-8 Middle Schools (Site TBD)
	Renovate Cutler as New East Side PreK-5
	Renovate West Side as New West Side PreK-5
	Close Claude Chester, Pleasant Valley, and S.B. Butler

**600
Students**

- Successive construction projects
- Reduction in escalation costs, but requires Groton to fund and manage two projects simultaneously
- Possibility of needing to purchase two sites
- Model includes the following site development allowances:
 - \$5 M for New Building
 - \$1.5 M for Renovate To New Buildings



Scenario 3 - Two New Middle Schools

Updated: August 23, 2013

Scenario 3 Cost Breakdown		Gross Building Area	Total Project Cost	Net Cost to Groton
1	New 600 Student 6-8 Middle School (Site to be determined)	105,000	\$ 52,568,433	\$ 28,879,642
2	New 600 Student 6-8 Middle School (Site to be determined)	105,000	\$ 52,568,433	\$ 28,879,642
3	Renovate to New - West Side MS to PK-5 Elementary School for projected enrollment (480 Students)	74,200	\$ 30,187,495	\$ 15,833,819
4	Renovate to New - Cutler MS to PK-5 Elementary School for projected enrollment (465 Students)	70,071	\$ 28,961,972	\$ 14,835,247
5	Demolish Bulter ES	37,450	\$ 1,296,226	\$ 1,296,226
6	Demolish Pleasant Valley ES	40,408	\$ 1,342,125	\$ 1,342,125
7	Demolish Chester ES	43,581	\$ 1,380,097	\$ 1,380,097
8	Demolish Portables at Barnum ES	1,800	\$ 347,809	\$ 347,809
9	Demolish Portables at Morrison ES	1,800	\$ 347,809	\$ 347,809
TOTAL:			\$ 169,000,399	\$ 93,142,417

nts



Scenario 3A Overview

Updated: August 23, 2013

**500
Students**

- Successive construction projects
- Reduction in escalation costs, but requires Groton to fund and manage two projects simultaneously
- Possibility of needing to purchase two sites
- Model includes the following site development allowances:
 - \$5 M for New Building
 - \$1.5 M for Renovate To New Buildings



Scenario 3A - Two New Middle Schools

Updated: August 23, 2013

Scenario 3A Cost Breakdown		Gross Building Area	Total Project Cost	Net Cost to Groton
1	New 500 Student 6-8 Middle School (Site to be determined)	93,000	\$ 48,050,764	\$ 27,678,314
2	New 500 Student 6-8 Middle School (Site to be determined)	93,000	\$ 48,050,764	\$ 27,678,314
3	Renovate to New - West Side MS to PK-5 Elementary School for projected enrollment (480 Students)	74,200	\$ 30,187,495	\$ 15,833,819
4	Renovate to New - Cutler MS to PK-5 Elementary School for projected enrollment (465 Students)	71,871	\$ 29,459,316	\$ 15,449,880
5	Demolish Bulter ES	37,450	\$ 1,296,226	\$ 1,296,226
6	Demolish Pleasant Valley ES	40,408	\$ 1,342,125	\$ 1,342,125
7	Demolish Chester ES	43,581	\$ 1,380,097	\$ 1,380,097
8	Demolish Portables at Barnum ES	1,800	\$ 347,809	\$ 347,809
9	Demolish Portables at Morrison ES	1,800	\$ 347,809	\$ 347,809
TOTAL:			\$ 160,462,406	\$ 91,354,394

nts



Summary Comparison

Updated: August 23, 2013

		Total Project Cost	Net Cost to Groton	Remarks
1	Scenario 1	\$ 139,183,069	\$ 75,682,486	<i>Refer to Scenario 1 Summary and Detail</i>
2	Scenario 1A	\$ 156,098,019	\$ 84,754,670	<i>Refer to Scenario 1A Summary and Detail</i>
3	Scenario 2	\$ 149,282,194	\$ 80,177,106	<i>Refer to Scenario 2 Summary and Detail</i>
4	Scenario 3	\$ 169,000,399	\$ 93,142,417	<i>Refer to Scenario 3 Summary and Detail</i>
5	Scenario 3A	\$ 160,462,406	\$ 91,354,394	<i>Refer to Scenario 3A Summary and Detail</i>



Committee Discussion

School Construction Discussion & Q&A



Breakout Discussion

- Bearing in Mind Discussions on School Construction, Programming, Configuration & Demographics.
- What is the preferred future for Groton Schools?
 - Discuss & Rank Scenarios
- Reconvene – Group Consensus

30 minutes!



Update on Site Selection





Site Selection Update

- Conducted initial feasibility and test fits for single middle
- Identified 10 potential sites for single 175,000-200,000 sq ft middle school
- Process will be informed by committee consensus on preferred Scenarios



Single Middle School Matrix

Criteria	Minimum	Preferred
Site Suitability		
Acreage	20-25 Acres	25+ Acres
LA Test Fit	Good fitting of bldg; siting; topo; wetlands; site work; minimal grading; good vehicular flow	Excellent fitting of bldg; siting; topo; wetlands; site work; minimal grading; good vehicular flow
Water	Available in proximity	Available on site
Sewer	Available in proximity	Available on site
Transportation Access	Reasonable access	Collector or Arterial Access
Location		
Geographically central	Within 2 miles of center	Within 1 mile of center
Demographically Central	Within 1 mile of 20%	Within 1 mile of 30%
Potential for Ped Access	Fair	Good
Appurtenances		
Playground/ Fields	Softball, Baseball, Multi-purpose, play yard, basketball	Minimum plus community fields



Single Middle School Matrix

Criteria	Minimum	Preferred
Compatibility with Surrounding Land Use		
Adjacent Land Uses	Commercial and Industrial non-conflicting uses	Civic uses/ schools/ proximity to residential neighborhood
Site Disposition		
Ease of Gaining Site Control	Willing Private Seller	Already in Town Control with no conservation easements
Current Site Status (Environmental)	Limited site clean-up required	Greenfield Site
Compatibility with Town Plan		
Development Area/ Economic Development	Not within POCD Conservation Area	No known Economic Development Interest



Matrix

		Least Advantageous		Most Advantageous
		1	3	5
<u>Site Suitability</u>	Size	15-20 Acres	20-25 Acres	25+ Acres
	LA Test Fit	Site not suitable	Meets Test Fit	Meets Test Fit +
	Water	not proximate	proximate	onsite
	Sewer	not proximate/ sewer avoidance area	Proximate or Flanders Road extention area	onsite
	Transportation Access	Local Roads/ Local Collector	Collector	Minor Arterial/ Arterial
<u>Location</u>	Geographically Central	Penphery	2 Miles	Geographic Center
	Demographically Central	Penphery	Within 1 mile of 20% of students	Within 1 mile of 30% of students
	Potential Pedestrian	Walking not possible (topography, traffic, distance)	Near neighborhoods, no current sidelwaks or trails	Sidewalks connect to neighborhoods
<u>Appurtances</u>	Playgrounds/ Fields	Does not meet minimum requirements	Meets minimum requirements	Sufficient space on site to accommodate athletic fields for school and community use
<u>Compatability with LU</u>	Adjacent Land Uses	Incompatable/ Potential Conflicts	Shades of grey	Civic Uses/ Schools/ Proximity to Residential Neighborhoods
<u>Site Disposition</u>	Ease of Gaining Site Control	Private	Town control with Easements	Town Control, no easements
	Environmental	Known Environmental Hazards	Demolition required	Greenfield
<u>Compatability with Town Plan</u>	Development Area/ Economic Development	In conservation area	Economic development area	No known economic development interest