

COMPONENTS OF A 21st Century Classroom

Technology is undeniably changing the face of education, and it's easy to see the impact already. Imagine what classrooms will be like in 20 years with the speed of technological innovation. Learn more about some of the key advancements in the 21st century classroom.

91% of teachers have computers in their classroom...
...but **1 in 5** feel their classrooms have the right level of technology

INCREASING THE PRESENCE OF THE FOLLOWING TECHNOLOGIES COULD CHANGE THAT RATIO DRASTICALLY

Learning Analytics

Help teachers assess top concerns and achievements related to their students

Registration for the Learning Analytics and Knowledge conference doubled between 2011 and 2012

Open Source Textbooks

In the next decade, open source textbooks are expected to grow to 35% of the textbook market

6 in 10 students have used a digital textbook - just 4 in 10 had in 2011 -

One system claims to predict whether a student's likelihood of sufficient course completion with about 70% accuracy, highlighting risk factors for individual students

Top 3 Reasons for Teachers to Use Technology in the Classroom

- 76%** Adapt to diverse learning styles
- 77%** Boost student motivation
- 76%** Enhance the material being taught

Real World Education

Project-based Learning (PBL) teaches concepts, but also organization, articulation, project management and collaboration

Integrating life skills into education can improve student engagement and retention and prepare them for 21st century careers

Online Courses

Almost a third of all college students take at least one online course

Over 65% of education institutions count online learning as critical for long-term educational success

Online enrollments saw 21% growth while overall higher education student population only saw 2% growth

Games and Gamification

43% of teachers have used online games in the classroom

In one study, games raised average test scores:

- 91.5%** With the use of digital games
- 79.1%** Without the use of digital games

Integration of Social Networks

Engaging students with a free tool they already use can help them learn in new ways, gain focus and increase participation

A+ One social media pilot program assisted in a class' 50% rise in grades

4 in 10 students believe integrating social networks into the classroom would benefit their education

Integration of Social Networks

29% of teachers use social media for coursework, compared to now 10% of college professors

Mobile Learning

81% of teachers believe tablets enrich classroom learning

86% of students believe they study more efficiently with tablets

1 in 5 students have used a mobile app to keep their coursework organized

59% of students would like to use their own mobile devices to enhance learning

Central High School



Home of the Eagles



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1.0 Program Summary

PROGRAM NARRATIVE

Measure G Passes

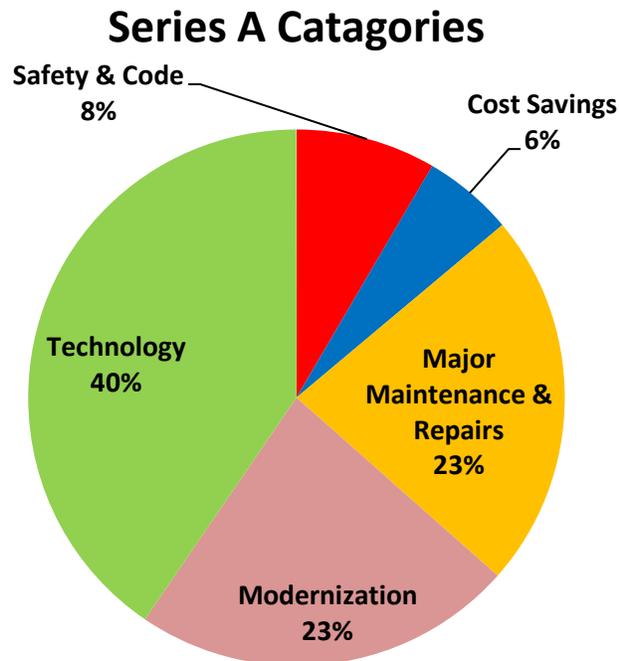
In November of 2012, the voters of the Morgan Hill Unified School Districts community passed a \$198.25 million General Obligation bond, Measure G, with 66% approval, to fund improvements for District facilities. The Measure G bond funds are planned to improve classroom technology, modernize buildings and infrastructure, improve energy efficiency, ADA access, and increase in classroom capacity. The District will leverage the Measure G funds and seek supplemental funding from other sources including the State of California, PG&E, and Federal Agencies.

Series A for Measure G will be paid off in 2042. The intent is to structure the issuance of Measure G bonds so that the cost to taxpayers does not exceed \$59.00 per \$100,000 of assessed valuation.

The District has committed to control of the bond program internally with support from industry professionals acting at their direction in a consulting role. The District will retain professionals with proven experience in the K-12 construction market for planning, design, program and construction management and quality assurance & controls. This allows the District to blend the benefit of lessons learned at peer institutions and industry trends with the District's historical knowledge base, local considerations and stakeholder input.

Series A Bond Issuance & Project List

The Morgan Hill Unified School District sold the first series of bonds in February 2013 for \$55,000,000. At the August 26, 2013 Board meeting the Board of Trustees approved the Series A Expenditure Plan – Option #2, with the following project list with five categories.



1.0 Program Summary

Major Maintenance & Repairs	School Site	\$12,399,995
Roofing	Paradise V.	\$850,000
Roofing	Jackson	\$850,000
Roofing	PA Walsh	\$850,000
Roofing	Murphy	\$850,000
Roofing	Nordstrom	\$850,000
Roofing	SMG	\$0
Roofing	Los Paseos	\$399,999
HVAC	Jackson	\$1,499,999
HVAC	Nordstrom	\$1,499,999
HVAC	Paradise V.	\$1,499,999
HVAC	SMG	\$0
Utilities	PA Walsh	\$350,000
Utilities	Burnett	\$2,900,000
Cost Savings	School Site	\$3,000,000
Purchase	Transp. Site	\$3,000,000
Modernization	School Site	\$12,599,999
	Charter	\$5,000,000
	Burnett	\$2,600,000
	Britton	\$1,000,000
	SMG	\$2,000,000
	PA Walsh	\$2,000,000
Safety & Code	School Site	\$4,615,178
	Burnett	\$1,100,000
Fencing	Britton	\$300,000
Fencing	M. Murphy	\$65,184
Fire Alarm	Jackson	\$249,999
Fire Alarm	Paradise V.	\$249,999
Fire Alarm	Nordstrom	\$249,999
Restroom	Jackson	\$249,999
Restroom	Paradise V.	\$249,999
Restroom	PA Walsh	\$399,999
Restroom	Britton	\$1,499,999
Technology	School Site	\$22,163,379
Infrastructure	Burnett	\$500,000
Implementation	District	\$13,831,200
Implementation	Contractor	\$7,832,179

1.0 Program Summary

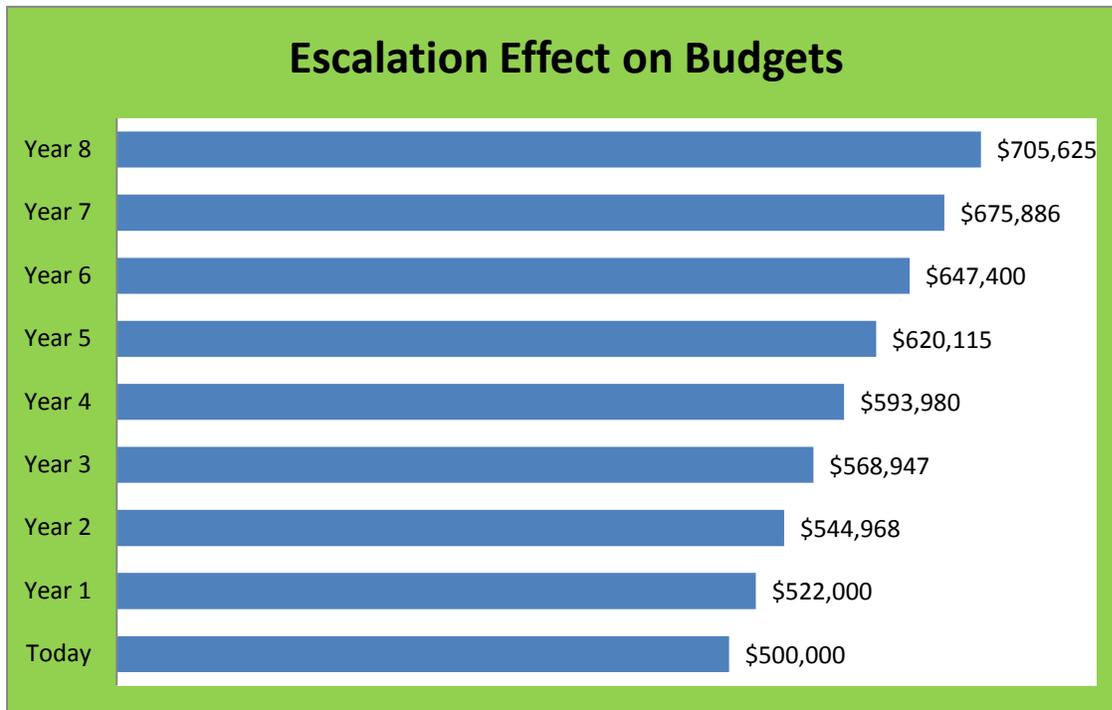
Program & Project Budgeting

Development of Program and Project budgets contain many components including the scope of work and assumptions, application of design & delivery costs, allocation of contingencies, and projection for escalation.

Program wide budgets are developed to account for items that apply across many projects, or the entire program. This may include management fees, development of district standards, legal services, studies and similar.

A Project's construction cost is based on a general scope of work that includes assumptions and a control quantity. Design & delivery costs account for the design, permit fees and special services necessary to deliver the project. Contingencies are allocated to account for project uncertainty, level of detail for the project at different phases and to manage risk items.

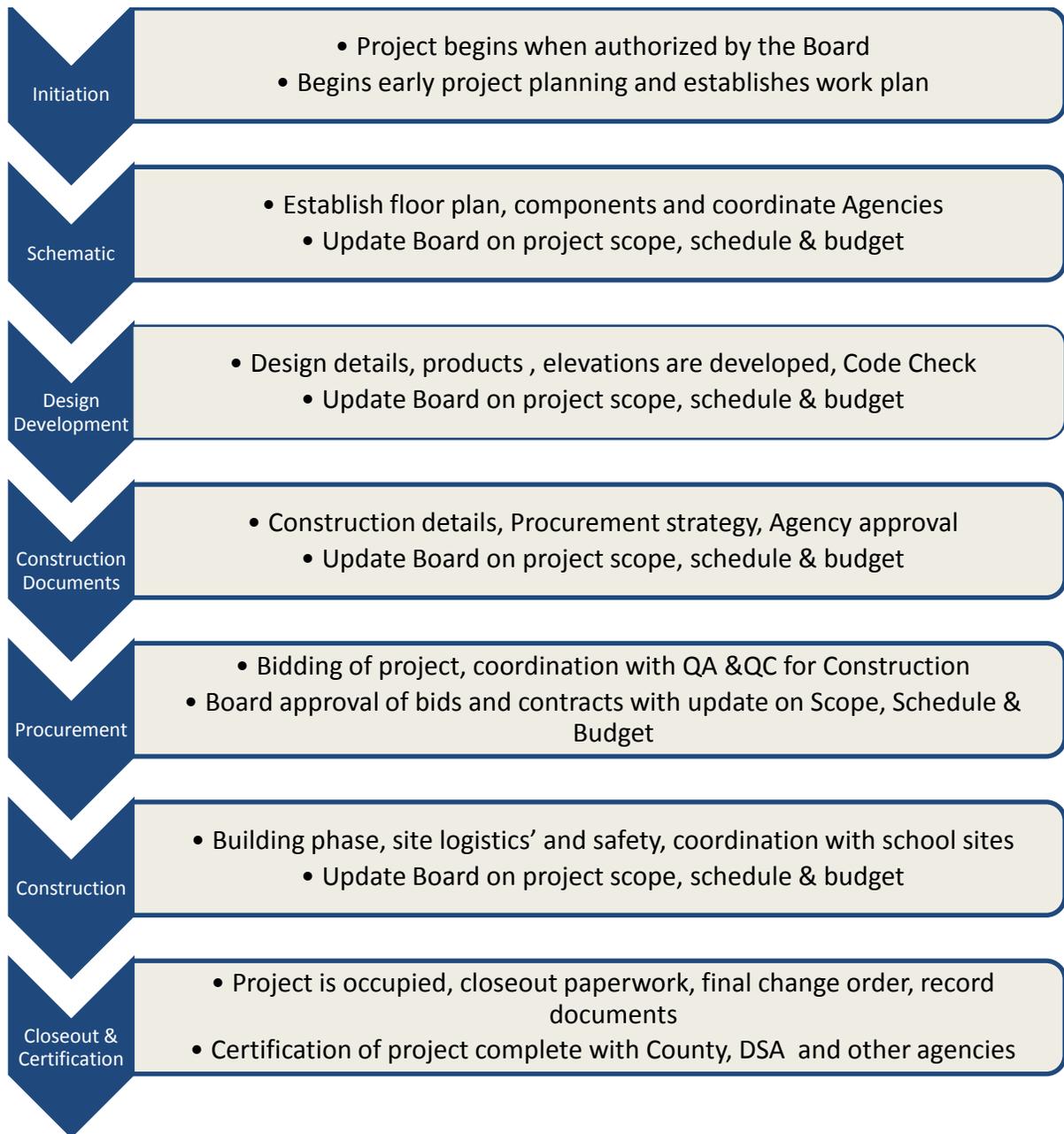
Escalation is a projection of increase to projects cost through the mid-point of construction. The rate of escalation varies over time and is affected by the general economy, construction market factors, project type and complexity. The following chart illustrates the impact that may occur to a project budget over eight years.



1.0 Program Summary

Project Development

Once a project is authorized by the Board of Trustees, project development begins. The Project Development process is broken down into phases that create milestone points. Those milestones allow for review and evaluation of the development. For most of the projects under consideration for Measure G, Series A will follow this basic development milestone process.



2.0 Financial Summary

FINANCIAL OVERVIEW

The voters of Morgan Hill approved Measure G with multiple bond sales supporting the need for improved facilities and 21ST century learning. The Measure G funds are planned for sale through four separate bond issuances over the next nine years from 2013 to 2022 and total \$198.25 million, subject to Board of Education approval. The first issuance, Series A included \$55 million dollars.

	A	B	C	D = A-C	E
Program Funding	Current Funding	Committed	Forecast to Complete	Funding Variance	Expended
Bond Series A	\$55,000,000	\$55,000,000	\$55,000,000	(\$0.00)	\$6,519,424
Bond Series B *	\$50,000,000				
Bond Series C *	\$50,000,000				
Bond Series D *	\$43,250,000				
Supplemental Funds **					
Total Funds	\$198,250,000	\$55,000,000	\$55,000,000	(\$0.00)	\$6,519,424

*=Proposed Bond Sale Value, subject to authorization by Board of Education

**=Supplemental Funds will be adjusted as they become available

PROGRAM FUNDING ALLOCATION

The District is currently planning the potential project list and funding allocation for Measure G, Series A and Board Authorized Projects. The Chart below identifies the authorizations for projects recently completed or currently under construction.

	A	B	C	D = A-C	E
Description	Current Funding	Committed	Forecast to Complete	Funding Variance	Expended
Series A Funding	\$55,000,000				
Program Costs	\$506,026	\$506,026			\$506,026
Board Authorized Projects					
Burnett Modernization **	\$6,894,492	\$6,894,492	\$6,894,492	\$0	\$5,979,073
Martin Murphy Fence **	\$65,185	\$65,185	\$34,325	\$0	\$34,325
Total Allocated Funds	\$7,456,703	\$7,456,703	\$6,928,817	\$0	\$6,519,424
Remaining Series A Funding	\$47,534,297	\$0	\$0		\$0

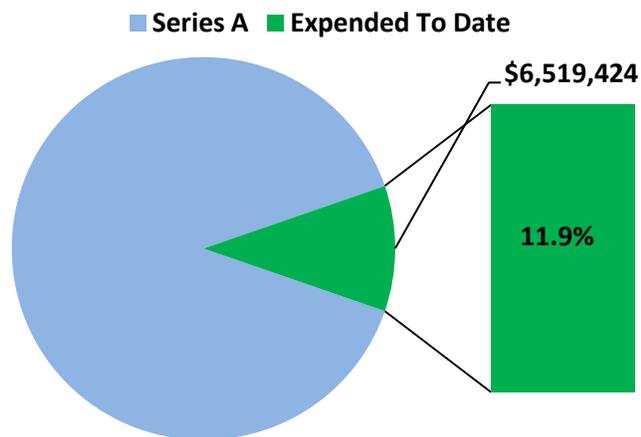
**Hard Construction Costs

2.0 Financial Summary

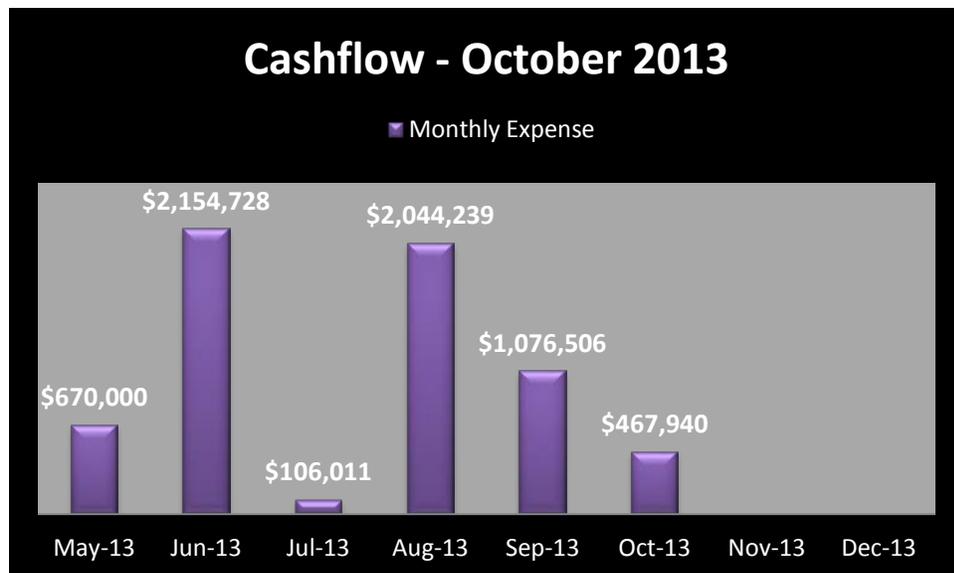
EXPENDED TO DATE

Through October 30, 2013 the District has expended approximately \$6,519,424 since the Series A bonds were sold on February 21, 2013. The \$6,519,424 expended to date represents (11.9%) of the Series A funds and equals (3.29%) of the \$198.25 million Measure G Program funds.

Series A \$55M - October 2013



The Series A monthly expenditures are illustrated in the chart below and reflect the Programs Cashflow through October 2013.



3.0 Authorized Project Updates

Burnett Modernization – Construction Phase



Project Number: G1401
Architectural Firm Mc Kim Design Group
Construction Mc Kim Design Group
Manager:
Contractor: Multiple Prime – 7 Primes

Project Description:
 Modernization of 20 Classrooms, 2 sets of Restrooms, Infrastructure, Parking lot improvements, removal of covered walkways and excess portables. Improvements to Administration and Multi-use buildings are in design.

Construction Contract Cost Summary:		Construction Schedule Summary:	
Contract Award Amount	\$ 5,181,941	Phase 1 – Complete, punchlist in Progress	
Approved Change Order Amount	\$ 0 0%	Phase 2 Original Completion	Mar 15, 2014
Revised Contract Amount	\$ 5,181,941	Estimated Completion	Mar 15, 2014
% Invoiced to Date	95%	% Complete	15%
Balance Remaining	\$ 259,097	Duration Remaining	days

Project Budget Status	Soft Costs	Hard Costs	Total	Submittals	RFIs	PCO's	
Approved	\$0	\$6,894,492	\$6,894,492	Total Submitted	85	84	0
Committed	\$0	\$5,181,941	\$5,181,941	Total Responded To	81	82	0
Expended to Date	\$0	\$4,922,844	\$4,922,844	Total Remaining	4	2	0
Uncommitted Bal.	\$0	\$1,712,551	\$1,712,551	Open			
				Average Turnaround	13	9	0

- Achievements/ Key Issues:**
- Excellent bidder participation helped lead to bids within budget and proactive management kept Change Orders within budgeted values.
 - Offsite work was completed within the project timelines.
 - Phase 1 is complete with minor punchlist work remaining.
 - Phase 2 design is near completion.
- Safety:**
- No worker lost time incidents and no recordable incidents reported

3.0 Authorized Project Updates

Martin Murphy Fencing – Construction Phase



Project Number: G1402
Architectural Firm MHUSD
Construction Manager: Cumming Corporation
Contractor: AAA Fence

Project Description:
 Modernization of 20 Classrooms, 2 sets of Restrooms, Infrastructure, Parking lot improvements, removal of covered walkways and excess portables. Improvements to Administration and Multi-use buildings are in design.

<u>Construction Contract Cost Summary:</u>			<u>Construction Schedule Summary:</u>	
Contract Award Amount	\$ 35,558		Original Completion	Sept 10, 2013
Approved Change Order Amount	(\$1,233)	0%	Estimated Completion	Sept 10, 2013
Revised Contract Amount	\$34,325		% Complete	95%
% Invoiced to Date	95%		Duration Remaining	0 days
Balance Remaining	\$ 32,609			

Project Budget Status	Soft Costs	Hard Costs	Total		Submittals	RFIs	PCO's
Approved	\$2,000	\$63,185	\$65,185	Total Submitted	4	0	1
Committed	\$2,000	\$34,325	\$36,325	Total Responded To	4	0	1
Expended to Date	\$2,000	\$32,609	\$34,609	Total Remaining	0	0	0
Uncommitted Bal.	\$0	\$28,860	\$26,860	Open			
				Average Turnaround	5	0	7

Achievements/ Key Issues:

- AAA Fence award contract and executed work
- Work completed around school site power, gas and phone service without disruption
- Last two punchlist items being addressed

Safety:

- No lost time and no recordable incidents to report