



**Town of Hanover, Massachusetts**  
Hanover High School



**PMA Construction Services**  
Owner's Project Manager

## **HANOVER HIGH SCHOOL PROJECT** *February 2011 – Monthly Status Report*

<b>Project:</b>	Hanover High School	<b>Building Size:</b>	157,000	<b>Ph1 Substantial Completion:</b>	June 2011
<b>Current Phase:</b>	Construction	<b>Enrollment Projection:</b>	800 Students	<b>Ph2 Substantial Completion:</b>	May 2012
<b>Construction Type:</b>	NEW	<b>Facility Type:</b>	High School	<b>Project Total Duration:</b>	32-months
<b>Construction Start Date:</b>	28Sep09	<b>Reimbursement Rate:</b>	48.21%	<b>Day 518 of 611 to Ph1 Substantial:</b>	84.8%

### **Project Safety Report**

Safety Incidents this Month • [0]  
Past Lost Time Incidents • [1]  
Past Minor Reportable Incidents • [2]

### **Open Scope / Potential Issues**

- Terrazzo schedule impact mitigation
- Procurement of window treatments
- Auditorium construction progress and manpower
- Identify movers scope, issue mover RFP
- Stair tower 1,2 and 5 tile installation
- RTU's delivered and install
- Telephone, network and security vendor coordination
- Verizon and Comcast installation coordination
- Commissioning coordination
- IT equipment selection, procurement and installation coordination
- FF&E selection, procurement and coordination
- Preparation for move to new building & vacate existing
- Equipment startups, testing and owner training
- Phase 1A Track & Field turnover
- Community Issues – none at this time.

### **Budget Status**

**Total Project Budget:** \$50,076,789 as of 2/28/11\*  
**Actual Incurred to Date:** \$36,932,919 as of 2/28/11 (73.8%)  
**Contingency Remaining:** \$1,091,837 (41.6%)  
*\*\*Subject to Final Revised PFA Agreement*

#### **Construction Cost Summary:**

Award Value (Callahan):	\$38,652,255.00
Previously Executed CO's (Net)	\$1,260,213.88
Previous Contract Value:	\$39,912,468.88
CO's Executed this Month:	\$74,409.00
<b>Current Contract Value:</b>	<b>\$39,986,877.88</b>

#### **Construction Payment Summary:**

Previous Gross Amount:	\$28,496,034.94
This Month's Gross Amount:	\$2,195,845.00
Gross Amount to-Date:	\$30,691,879.94
Retainage To-Date @ 5%:	\$1,534,594.00
Retainage Released	-\$74,215.57
Current Retainage	\$1,460,378.43
<b>Total Net Payable To-Date:</b>	<b>\$29,231,501.51</b>

<b>Remaining Balance to Finish (gross):</b>	<b>\$9,294,997.94</b>
---	-----------------------

### **Project Status**

#### **February 2011 Progress**

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• PMA Performed OPM Duties (i.e. contract document compliance verification, project controls, real-time issues ID and resolution)</li> <li>• Designer Continued Construction Administration (i.e. submittals, RFIs, weekly site visits, QA/QC, etc)</li> <li>• Continue 3<sup>rd</sup> Floor Casework</li> <li>• 2<sup>nd</sup> Floor Doors Installed, 3<sup>rd</sup> Floor Underway</li> <li>• Walk-in Cooler/Freezer Complete</li> </ul> | <ul style="list-style-type: none"> <li>• 2<sup>nd</sup> &amp; 3<sup>rd</sup> Floor Wallboard Complete, 1<sup>st</sup> Floor 90% Complete</li> <li>• Building B Paint &amp; Primer Complete</li> <li>• Building B Ceiling Grid Complete</li> <li>• 3<sup>rd</sup> Floor Ceramic Complete</li> <li>• Mechanical Room Rough MEP Approx 95% Complete</li> <li>• Building Commissioning Continued</li> <li>• 3<sup>rd</sup> Floor Locker Installation Complete</li> </ul> |
|---|--|

#### **March 2011 Forecasted Items**

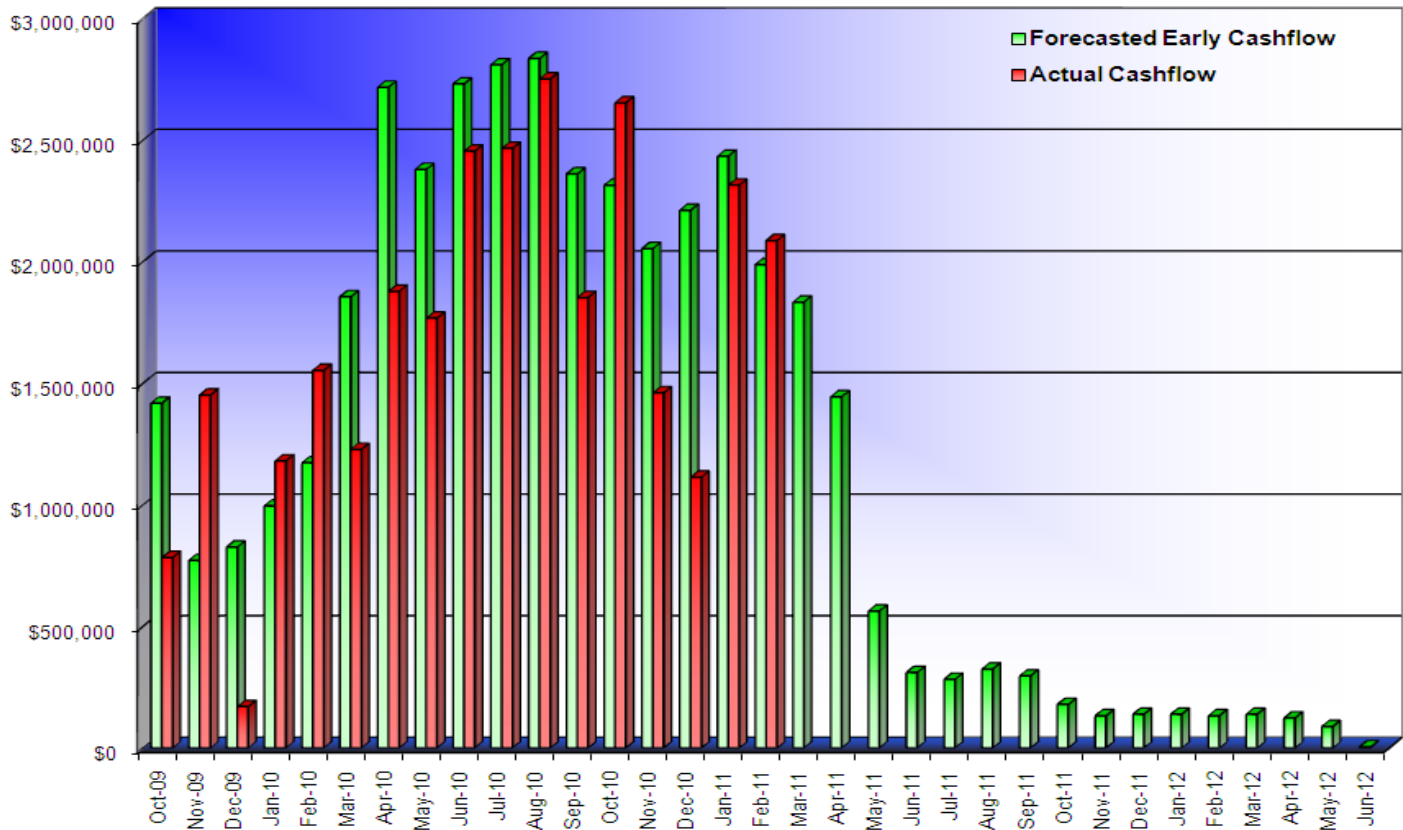
- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>• Complete Sheetrock in Building A</li> <li>• Continue Prime/Paint 1<sup>st</sup> Floor</li> <li>• Continue Terrazzo Base Installation</li> <li>• Complete Kitchen Tile Installation, Begin 1<sup>st</sup> Floor.</li> <li>• Continue Kitchen Equipment Installations</li> <li>• Continue Terrazzo Install.</li> </ul> | <ul style="list-style-type: none"> <li>• Complete Metal Panel Installation</li> <li>• Continue Auditorium Rough MEP</li> <li>• Complete 3B Above Ceiling Inspections / Commissioning</li> <li>• Complete Boiler Room Equipment Installation</li> <li>• Complete Delivery &amp; Placement of Rooftop Units</li> <li>• Complete Phase 1A Landscape Punchlist and Prep for Turnover</li> </ul> |
|---|---|



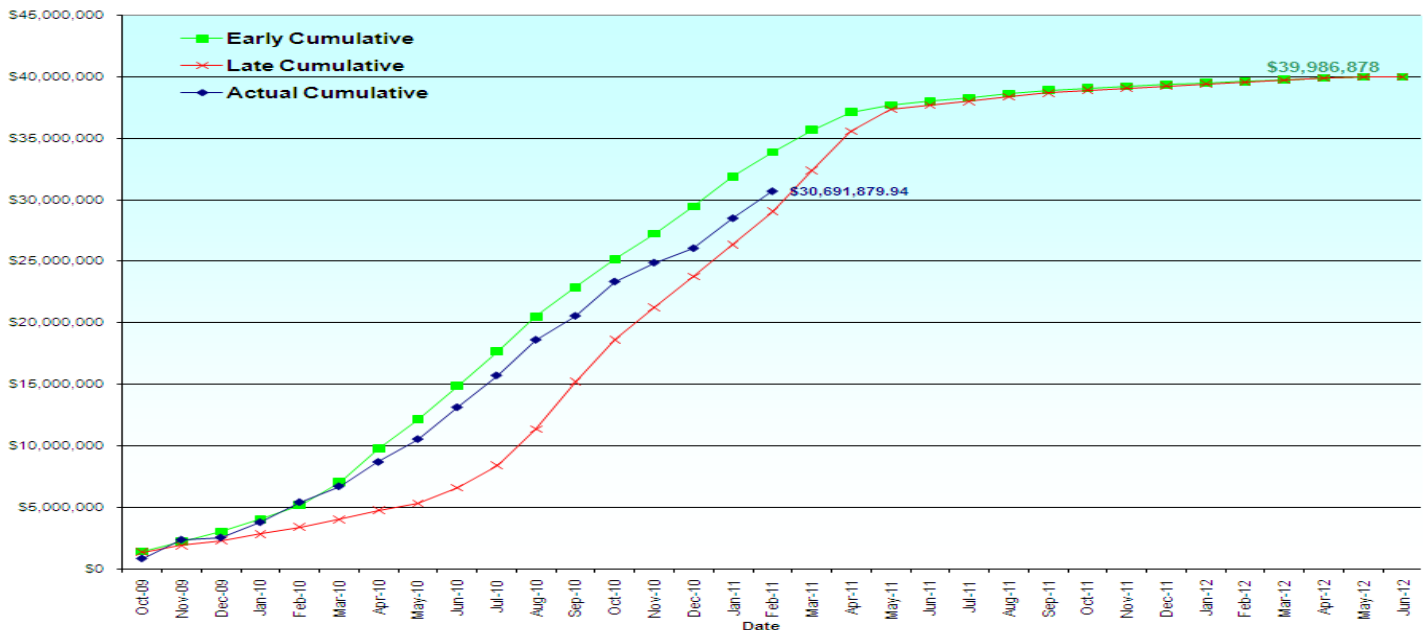
**Town of Hanover, Massachusetts**  
Hanover High School

**PMA Construction Services**  
Owner's Project Manager

### Monthly Cashflow Projection



### Cumulative Cashflow Projection



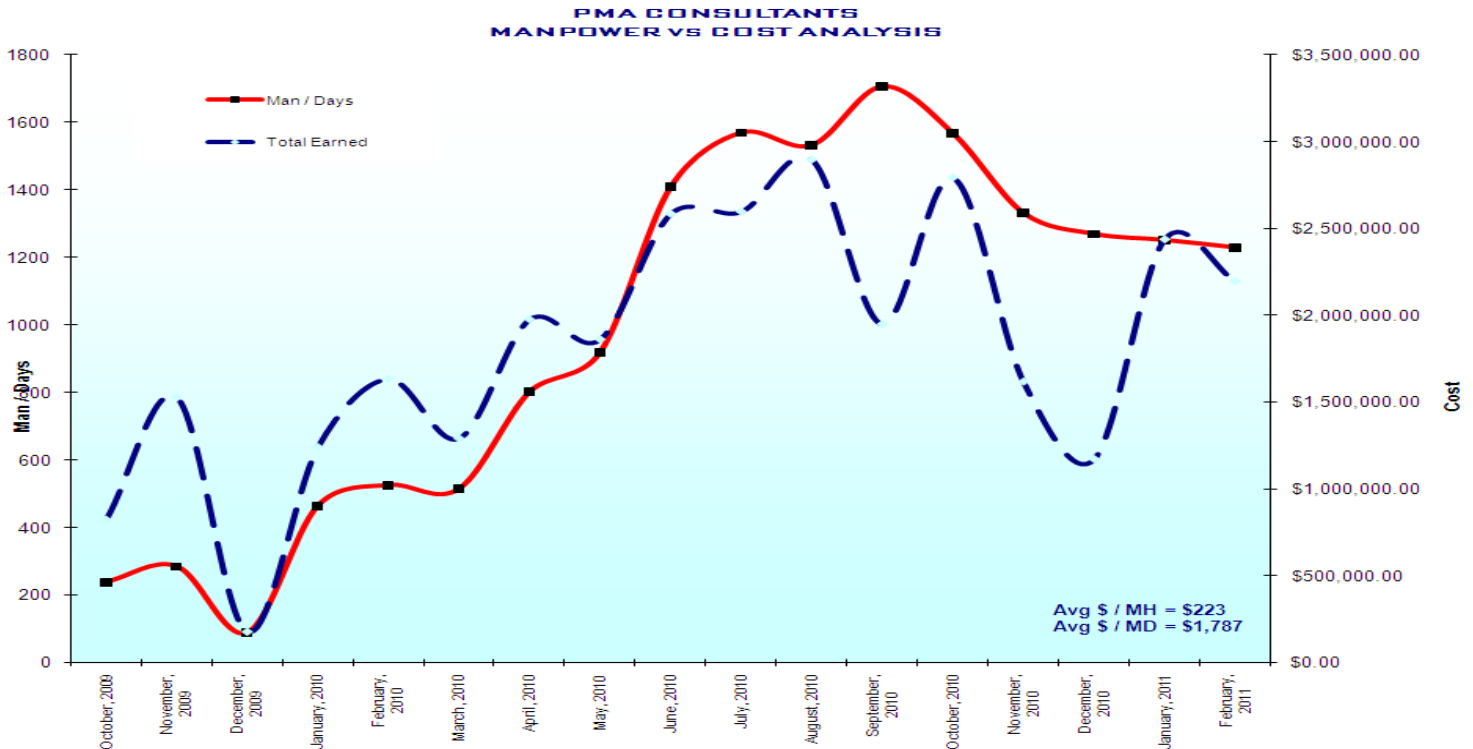


**Town of Hanover, Massachusetts**  
Hanover High School



**PMA Construction Services**  
Owner's Project Manager

### Manpower vs Cost Analysis



### Milestone Dates

Milestone Dates	Baseline	Forecast	Actual	Status	Schedule Notes
Construction Start - NTP	1Oct09		28Sep09	✓	On Schedule
Begin Casework / Millwork	03Feb11		17Jan11	✓	On Schedule
Begin Terrazzo Flooring Install	N/A		21Feb11	✓	On Schedule
Begin Classroom Floor Treatments	17Feb11		28Feb11	✓	On Schedule
Ph1A Substantial Completion	1Sep10	21Mar11			No Critical Path Impact – Float Utilized
Complete Prime / Paint 1 <sup>st</sup> Coat Entire Bldg	15Mar11	30Mar11			Critical Path Impact in Auditorium Area – Working to Mitigate
Begin Auditorium Stage Construction	24Mar11	12Apr11			Critical Path Impact – Working to Mitigate
Begin Startup Checkout HVAC Systems	26Nov10	04Feb11			No Critical Path Impact – Float Utilized
Phase 1 Substantial Completion	1Jun11	16Jun11			Critical Path Impact by Auditorium Progress & Terrazzo Change

### HS14 Schedule Submission (HS15 submission not yet received)

#### Contract Milestone Analysis

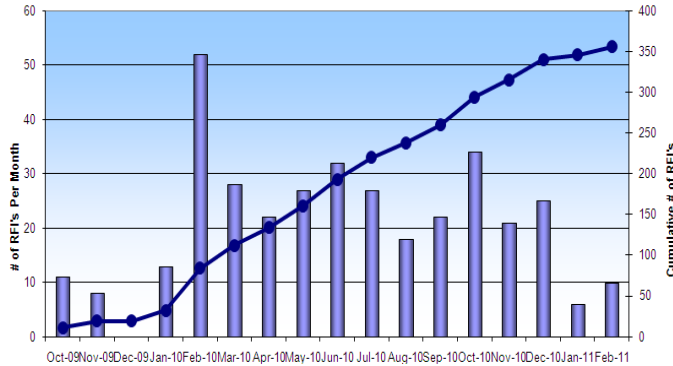
Phase	Contract	HS13	HS14	Float
Ph1 Substantial	01Jun11	23Jun11	16Jun11	-11
Ph1A Substantial	01Jun11	11Jan11	07Feb11	80
Ph2 Substantial	01May12	09May12	02May12	-1

- The primary critical path to Phase 1 substantial completion in the HS14 schedule submission flows through the auditorium and band/chorus room OH rough, ceilings, HVAC drops, drywall, , acoustical ceilings, prime/paint, flooring, plumbing fixtures, specialties, HVAC testing and balancing & final inspections. This path currently displays -11 days of total float.
- The secondary critical path to Phase 1 substantial completion is driven by terrazzo base and flooring install, followed up paint and HVAC testing and balancing. This path currently displays -9 days of total float.

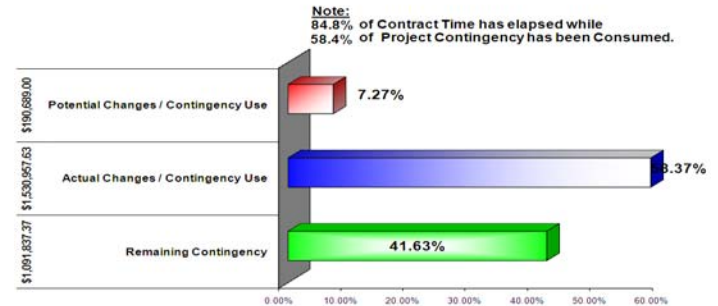


## Graphs & Data

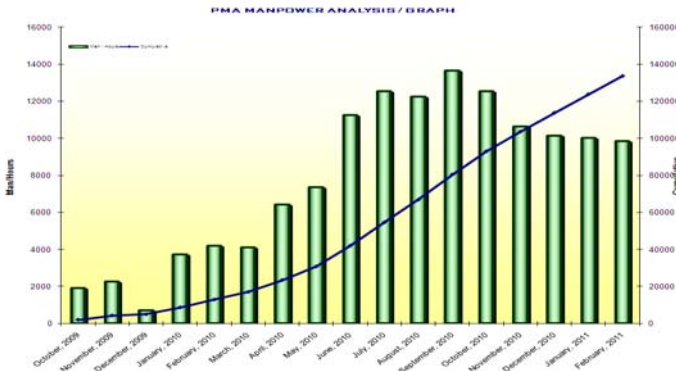
### Requests for Information (RFIs)



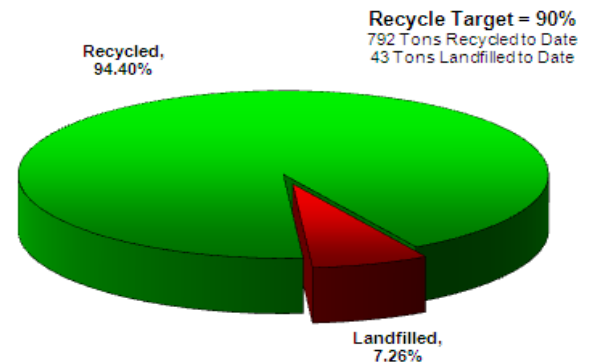
### Contingency Utilization



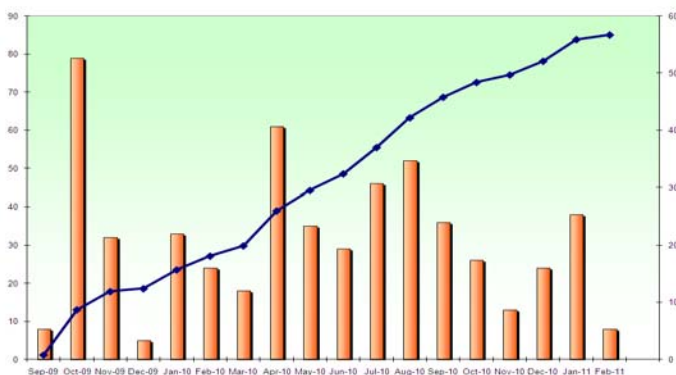
### Monthly Manpower



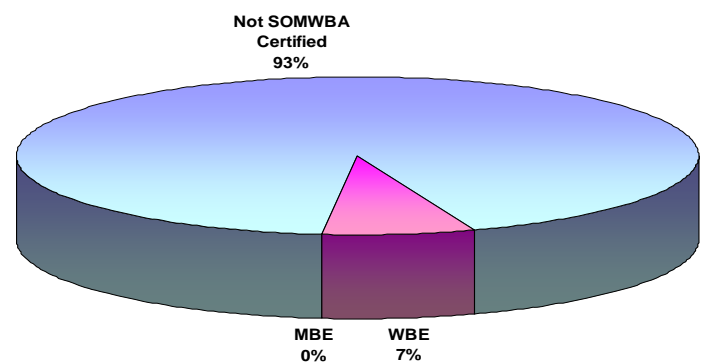
### MA-CHPS Waste Management



### Economic Impact – Work Force Employed To-Date



### MBE / WBE Participation



## PMA Change Management

### PMA Potential Change Order Log

	Received	Description	Proposed Amount (\$)	Pending Amount (\$)	Approved Amount (\$)	Time Extension (Y/N)	Current Status
	<b>Total</b>		<b>\$2,231,815.65</b>	<b>\$166,155.00</b>	<b>\$1,334,622.84</b>		
P.C.O. #41(R1)	9/18/2010	Pre-cast Medallion and Brick Change	\$5,045.00	\$0.00		N	In Dispute
P.C.O. #50	10/6/2010	Hardware Change to Intruder Function	\$5,811.00	\$0.00		N	In Dispute
P.C.O. #56	10/29/2010	Existing Generator per RFI# 270	\$11,796.00	\$0.00		N	In Dispute
P.C.O. #57	11/2/2010	Raise Roof Drains per ASI #022	\$5,456.00	\$0.00		N	In Dispute
P.C.O. #77	12/10/2010	Labor Rate and Benefit Increase	\$40,553.00	\$0.00		N	In Dispute
P.C.O. #78	12/10/2010	Masterswitches for Lighting Control per RFI #222	\$4,964.00	\$0.00		N	In Dispute
P.C.O. #18.001	7/30/2010	Cedar St. Grind & Re-pave	\$49,599.93	\$35,554.00		N	Open
P.C.O. #60.01	1/22/2011	Added Fume Hood Exhaust Fans per RFI #230	\$40,034.00	\$40,034.00		N	Open
P.C.O. #83	1/22/2011	Added Fence and Bollards at Playground and Musco	\$11,139.00	\$11,139.00		N	Open
P.C.O. #85	1/22/2011	Hardware Changes (TCL)	\$3,455.00	\$3,455.00		N	Open
P.C.O. #86	1/22/2011	Stair Tile Revision per ASI #75	\$72,173.00	\$50,000.00		N	Open
P.C.O. #87	1/22/2011	Tile Alignment & Transition	\$9,152.00	\$533.00		N	Open
P.C.O. #94	2/21/2011	Fire Rated Glass at BL -7 Frames per RFI #341	\$25,440.00	\$25,440.00		N	Open





**Town of Hanover, Massachusetts**

Hanover High School

**PMA Construction Services**

*Owner's Project Manager*

**Progress Photos**

**Science Lab Tables**



**Kitchen- Viewed from Café**



**Tower Gutters and Snow Guards**



**North Elevation Gym**



**Café/ Stair #4**



**2B West Teacher Center Bathroom**

