



Town of Hanover, Massachusetts
Hanover High School



PMA Construction Services
Owner's Project Manager

HANOVER HIGH SCHOOL PROJECT *October 2010 – Monthly Status Report*

Project:	Hanover High School	Building Size:	157,000	Ph1 Substantial Completion:	June 2011
Current Phase:	Construction	Enrollment Projection:	800 Students	Ph2 Substantial Completion:	May 2012
Construction Type:	NEW	Facility Type:	High School	Project Total Duration:	32-months
Construction Start Date:	28Sep09	Reimbursement Rate:	48.21%	Day 398 of 611 to Ph1 Substantial:	65.1%

Project Safety Report

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

Open Scope / Potential Issues

- Getting building 100% weathertight
- Temp heat / winter conditions preparedness
- Metal panel delivery date delayed
- Window delivery date delayed by filed sub bidder's manufacturer
- Curtainwall delivery and installation
- NGRID permanent power date
- Terrazzo contract procurement & schedule integration
- Telephone and security vendor coordination
- Building façade completion
- Completion of maintenance and concession building punchlist activities for potential early turnover
- Mechanical commissioning coordination and kick-off
- FF&E selection, procurement and coordination
- Preparation for move to new building & vacate existing
- Community Issues – none at this time.

Budget Status

Total Project Budget: \$50,678,683 as of 10/31/10
Actual Incurred to Date: \$28,022,177 as of 10/31/10 (55.3%)
Contingency Remaining: \$1,614,595 (61.5%)
***Subject to Final Revised PFA Agreement*

Construction Cost Summary:

Award Value (Callahan):	\$38,652,255.00
Previously Executed CO's (Net)	\$311,738.21
Previous Contract Value:	\$38,963,993.21
CO's Executed this Month:	\$508,074.96
Current Contract Value:	\$39,472,068.17

Construction Payment Summary:

Previous Gross Amount:	\$20,558,514.38
This Month's Gross Amount:	\$2,792,290.00
Gross Amount to-Date:	\$23,350,804.38
Retainage To-Date @ 5%:	\$1,167,540.22
Retainage Released	\$0.00
Current Retainage	\$1,167,540.22
Total Net Payable To-Date:	\$22,183,264.16

Remaining Balance to Finish (gross): **\$16,121,263.79**

Project Status

October 2010 Progress

- PMA Performed OPM Duties (i.e. contract document compliance verification, project controls, real-time issues ID and resolution)
- Designer Continued Construction Administration (i.e. submittals, RFIs, weekly site visits, QA/QC, etc)
- Main Bldg Rough MEP Approximately 90% Complete
- 99% of Bldg Slab on Grade Complete
- Approx 60% Phase 1 Trees & Shrubs Planted
- 2nd & 3rd Floor Wallboard 90% Complete, 1st Floor Underway
- Brick Veneer Installation Continued, Approx 85% Complete
- Maintenance & Concession Bldg Interior Finishes Complete
- Metal Roofing Installation Continued
- Completed Installation of Athletic Field Turf
- Building Envelope Commissioning Continued
- Move Coordination Meeting Held with HS Faculty

November 2010 Forecasted Items

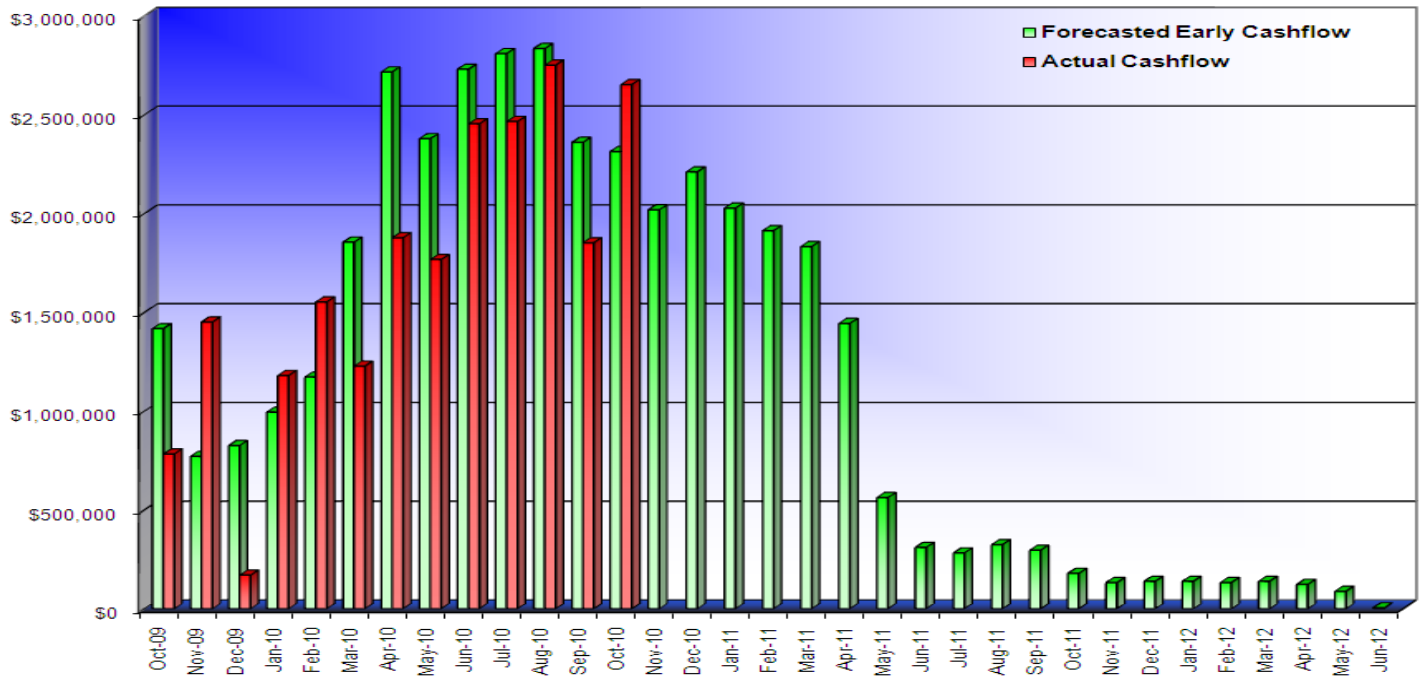
- Complete Classroom Wing Rough MEPs / Obtain Final Inspections
- Complete Sheetrock on 2nd and 3rd Floors, Continue 1st Floor
- Complete Slab on Grade Work List
- Complete Phase 1A Punchlist and Prep for Turnover
- Terrazzo Flooring Schedule Integration
- Begin Main Building Interior Finishes
- Continue Brick Façade Installation
- Continue Window Installation @ Main Building
- Get Building Weathertight and Begin Temp Heat
- Deliver Metal Panels and Begin Installation
- Permanent Power Online
- HVAC Unit Startup / Testing / Commissioning



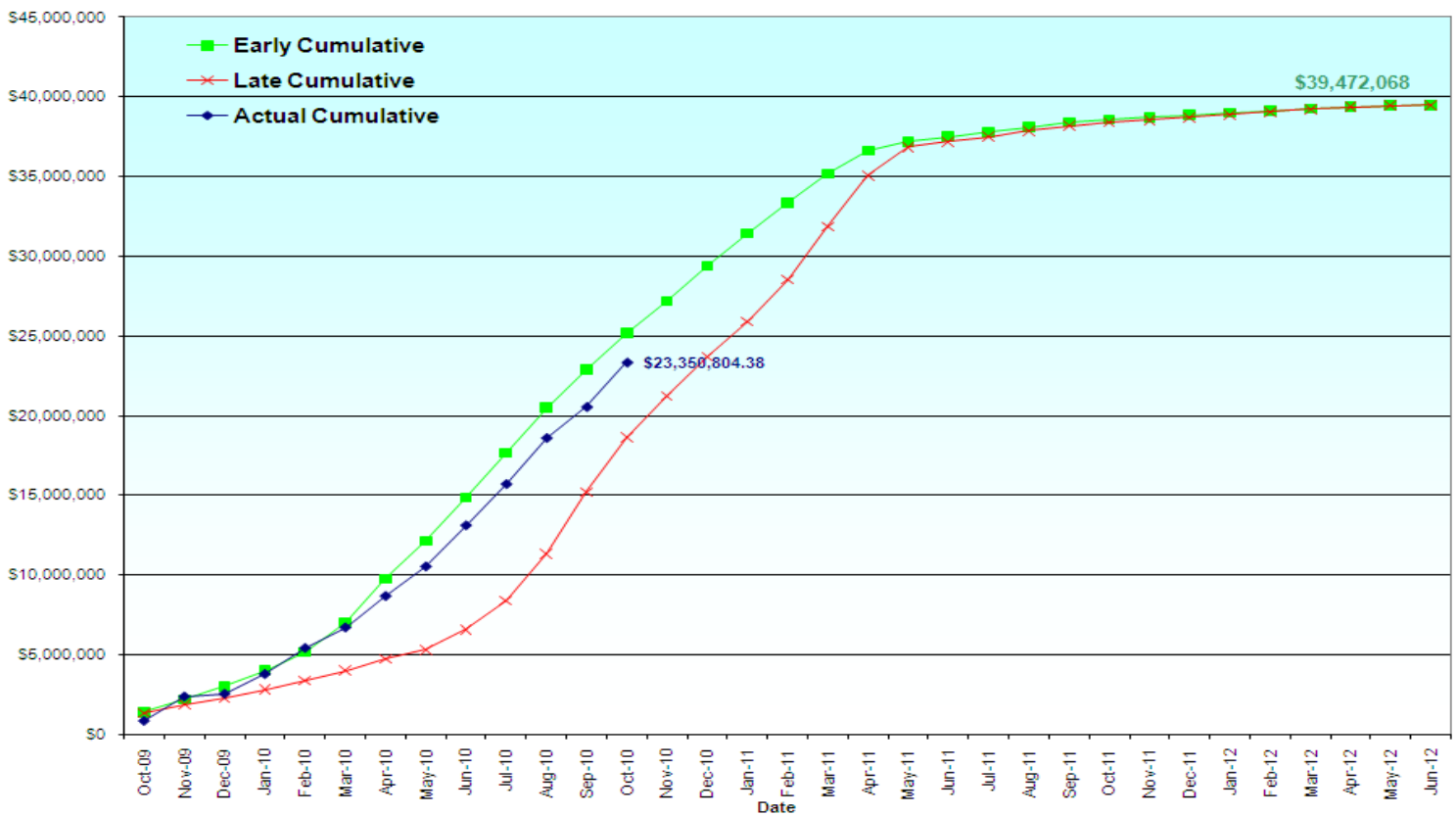
Town of Hanover, Massachusetts
Hanover High School

PMA Construction Services
Owner's Project Manager

Monthly Cashflow Projection



Cumulative Cashflow Projection



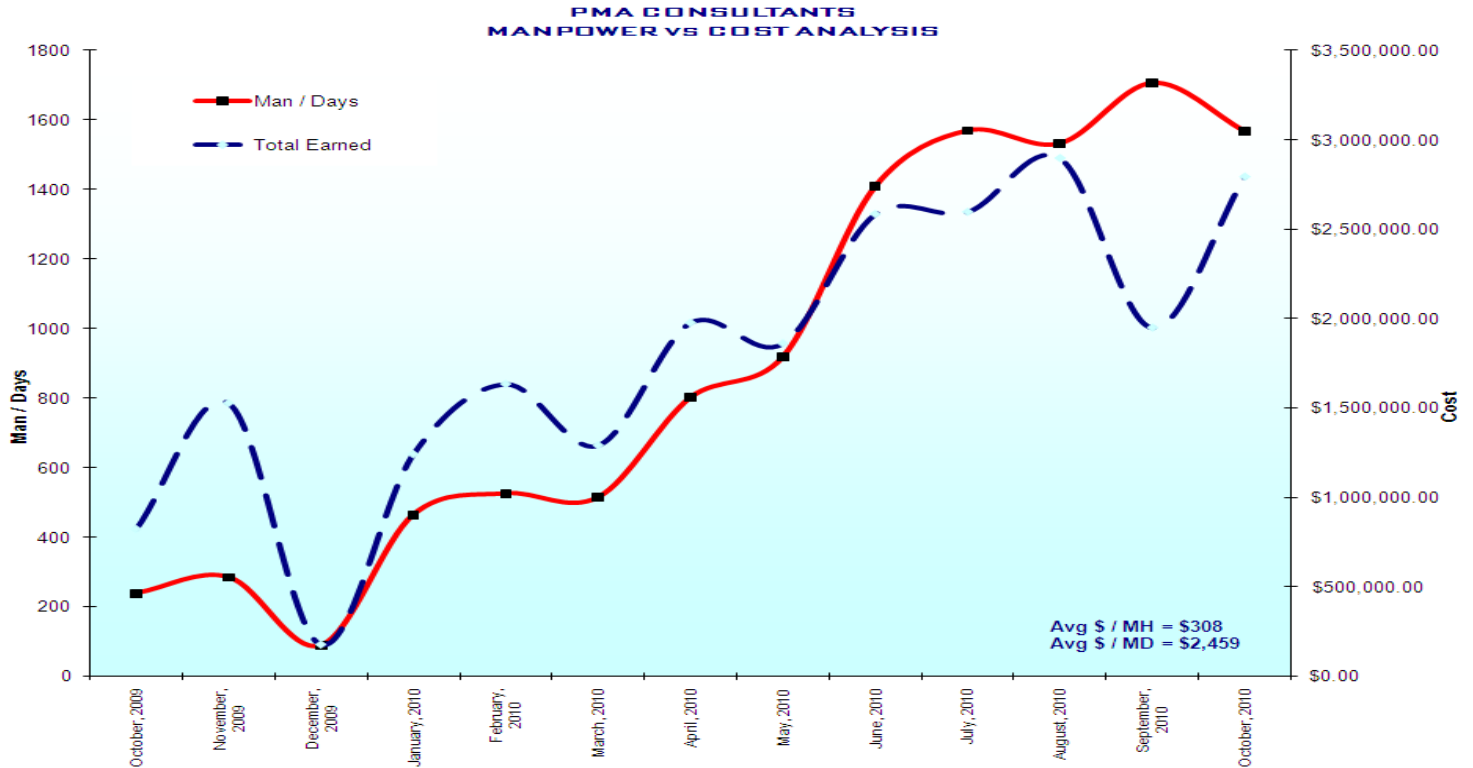


Town of Hanover, Massachusetts
Hanover High School



PMA Construction Services
Owner's Project Manager

Manpower vs Cost Analysis



Milestone Dates

Milestone Dates	Baseline	Forecast	Actual	Status	Schedule Notes
Construction Start - NTP	01Oct09		28Sep09	✓	On Schedule
OH MEP Work Start Milestone	20Apr10		12Apr10	✓	On Schedule
Building Envelope Start Milestone	28Apr10		26Apr10	✓	On Schedule
Begin Electrical Cut-In	17Aug10		16Aug10	✓	On Schedule
Complete Window Installation	06Oct10	26Nov10			Critical Path Impact Mitigated by Temp Protection
Ph1A Substantial Completion	01Sep10	01Dec10			No Critical Path Impact – Float Utilized
Begin Startup Checkout HVAC Systems	26Nov10	01Feb11			No Critical Path Impact – Float Utilized
Permanent Power Online	18Jan11	26Nov10			On Schedule
Phase 1 Substantial Completion	01Jun11	01June11			On Schedule

HS11 Schedule Submission

Contract Milestone Analysis

Phase	Contract	HS10	HS11	Float
Ph1 Substantial	01Jun11	28Jun11	01Jun11	0
Ph1A Substantial	01Jun11	09Nov10	01Dec10	140
Ph2 Substantial	01May12	18May12	23Apr12	6

- The primary critical path to Phase 1 substantial completion in the HS11 schedule submission flows through the main building interior rough MEPs, drywall, interior finishes (incl. paint, floors, ceilings, doors, millwork/casework, MEP finishes, etc) and continues on to punchlist, HVAC testing/balancing, commissioning, & final inspections. This path currently contains 0 days of total float.
- The longest path to the Phase 2 Substantial Completion contract milestone flows through Phase 1 completion, building abatement/demolition, site prep, construction of athletic fields, and final site improvements.

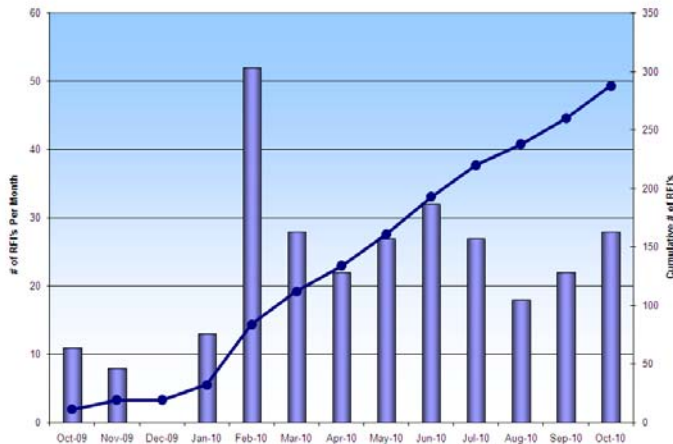


Town of Hanover, Massachusetts
Hanover High School

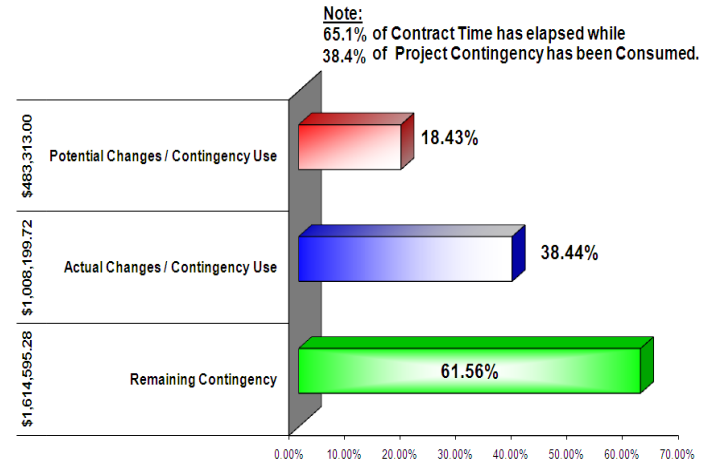
PMA Construction Services
Owner's Project Manager

Graphs & Data

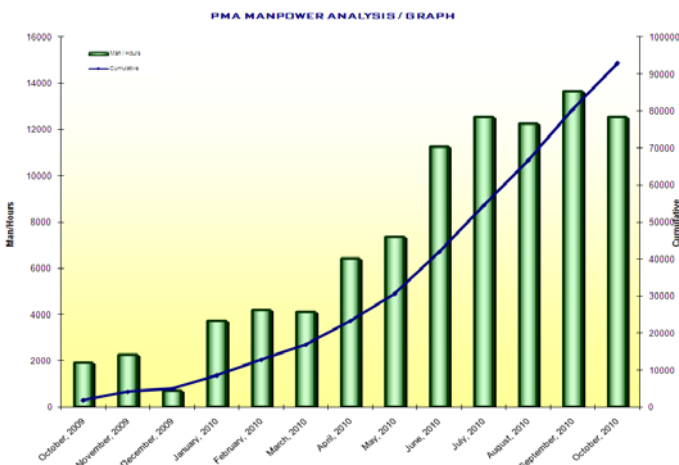
Requests for Information (RFIs)



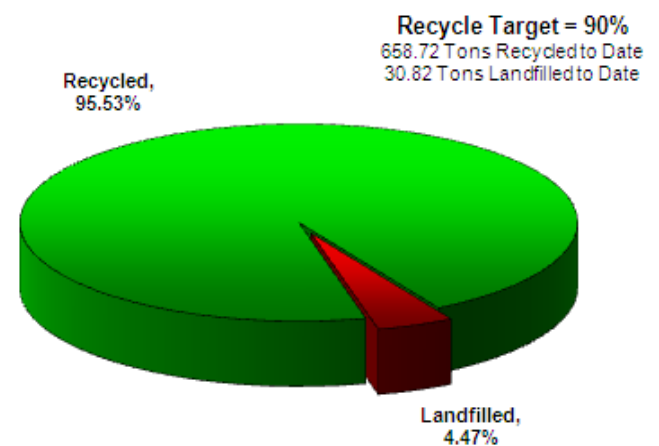
Contingency Utilization



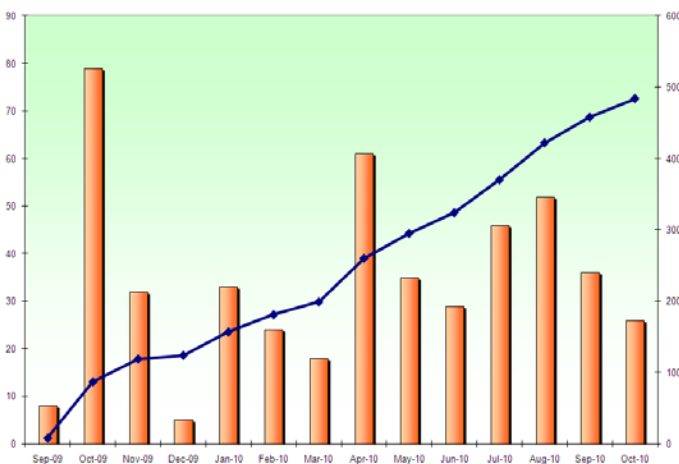
Monthly Manpower



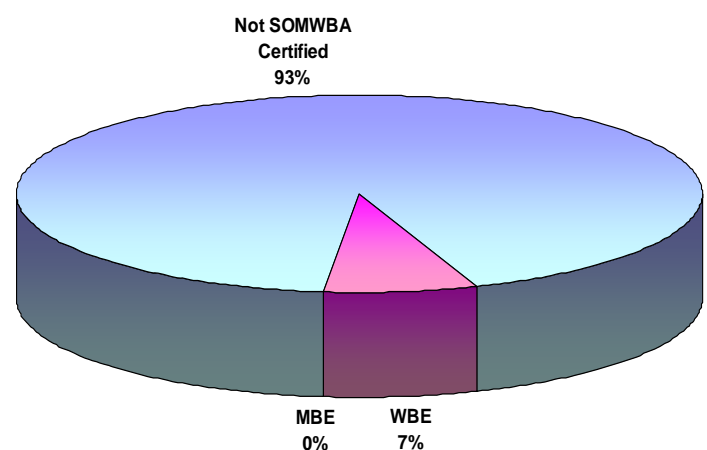
MA-CHPS Waste Management



Economic Impact – Work Force Employed To-Date



MBE / WBE Participation





Massachusetts School Building Authority



Town of Hanover, Massachusetts
Hanover High School

PMA Construction Services
Owner's Project Manager

PMA Change Management



Town of Hanover, Massachusetts
Hanover High School

Rejected Change Order Open



PMA Construction Services
Owner's Representative

PMA Potential Change Order Log

	Received	Description	Proposed Amount (\$)	Pending Amount (\$)	Approved Amount (\$)	Time Extension (Y/N)	Current Status
		Total	\$1,192,444.65	\$108,313.27	\$819,813.17		
PCO #01	2/6/2010	Elevator Substitution Credit	\$7,500.00		\$7,500.00	N	CO #1
PCO #02	5/5/2010	Water Main- Add'l Valves	\$4,481.94		\$4,001.65	N	CO #1
PCO #03	3/17/2010	Unexpected Cold Weather Procedures	\$145,898.43		\$122,500.00	N	CO #2
PCO #04	5/5/2010	R&R Unsuitable @ Drain w/ Stone	\$4,146.14		\$3,605.34	N	CO #1
PCO #05	5/5/2010	R&R Existing DMH in Poor Condition	\$3,526.40		\$3,147.98	N	CO #1
PCO #06	3/16/2010	Waterline Replacement Option #1 (Lopes)				N	Closed
PCO #07	TBD	Force Main Repair				N	Closed
PCO #08R1	9/30/2010	Add'l MH & Wider Duct bank for NGRID (Without Griffin)	\$8,926.00		\$8,926.00	N	CO #5
PCO #08R2	9/30/2010	NGRID Changes: Griffin	\$39,037.00			N	Closed
PCO #09	6/4/2010	RFI#123-2 Added Soffits for RLs @ B313 and B314	\$1,126.81		\$1,127.00	N	CO #4
PCO #10	5/26/2010	Lopes Swing set Relocation	\$3,628.90		\$3,628.90	N	CO #3
PCO #13	6/24/2010	ASI#27-10 Outbuilding Façade	\$55,713.93		\$47,575.25	N	CO #3
PCO #14	8/4/2010	PR #8 Stair #4 Railing	\$29,266.87		\$31,123.00	N	CO #4
PCO #15	7/2/2010	PR #9 Science Room Layout Changes	\$8,087.72			N	Closed
PCO #15R3	10/6/2010	PR#9 Science Room Revisions (Outlet Move Due to	\$5,710.00		\$5,710.00	N	CO #7
PCO #16	7/30/2010	Additional Pruning Around Track	\$24,732.89		\$24,733.00	N	CO #4
PCO #17	7/28/2010	ASI#39 Relocate Conduit at Cedar School	\$136,379.44			N	Closed
PCO #18.001	7/30/2010	Cedar St. Grind & Re-pave	\$49,599.93	\$35,554.00		N	Open
PCO #19	10/19/2010	Tennis Court Rehab	\$3,892.00		\$3,778.00	N	CO #7
PCO #20	6/30/2010	RFI#79 & 139 Additional Ductwork and Grills	\$6,195.04	\$5,850.00		N	
PCO #21	11/1/2010	Cedar School Track Access ASI CSS #003	\$8,387.00	\$8,387.00		N	Open
PCO #22	7/31/2010	45 Degree Angles Curb and radiuses Return	\$5,561.18		\$5,561.00	N	CO #4
PCO #23	8/6/2010	ASI#32 Metal Wall Panels Credit	\$20,000.00		\$20,000.00	N	CO #5
PCO #24	8/10/2010	Concessions Drainage and Fence Revision	\$7,223.45		\$6,500.00	N	CO #4
PCO #25	8/10/2010	ASI#34 Hand Dryers Added Wire at Concession Stand	\$56,884.96		\$56,884.96	N	CO #7
PCO #26	8/25/2010	ASI#49 Bollards at Maint. Bldg	\$3,547.77		\$3,548.00	N	CO #4
PCO #27	8/25/2010	Additional Shoring of Decks Per SKS CA03-05	\$3,336.00			N	Closed
PCO #28	8/30/2010	Dual Ring Infiltrometer Test	\$4,109.98		\$4,110.00	N	CO #7
PCO #29(R1)	8/25/2010	Misc. Lopes	\$1,930.00		\$1,930.00	N	CO #5
PCO #30	8/25/2010	Blocking for Visual Display Boards	\$5,000.00		\$5,000.00	N	CO #4
PCO #31	8/25/2010	Path to Scoreboard	\$5,934.00	\$5,934.00		N	
PCO #32	9/26/2010	Water Main Revisions	\$84,507.51		\$59,894.00	N	CO #5
PCO #34	9/26/2010	Change Water Service to Building to Copper	\$5,306.00		\$5,306.00	N	CO #5
PCO #35	8/26/2010	Concession Manhole Covers	\$1,131.09		\$1,131.09	N	CO #5
PCO #36	10/1/2010	Special Waste Tank Elevation Change	\$36,042.00		\$36,042.00	N	CO #7
PCO #37	8/27/2010	Dimming Change and Overhead Coiling Doors	\$7,626.27	\$7,626.27		Y	Open
PCO #38	10/25/2010	XFMR Planting Changes Per ASI CSS-06	\$10,646.00		\$10,646.00	N	CO #7
PCO #39	9/17/2010	Acid Waste Vent Relocation	\$12,004.00	\$12,004.00		N	Open
PCO #40	9/27/2010	Landscaping Irrigation Revisions	\$21,576.00		\$21,576.00	N	CO #7
PCO #41(R1)	9/18/2010	Pre-cast Medallion and Brick Change	\$5,045.00	\$5,045.00		N	Open
PCO #42	10/27/2010	Marker and Tackboard Credit	-\$29,105.00		-\$29,105.00	N	CO #7
PCO #43(R2)	10/7/2010	Athletic Field Repairs Negotiated LS	\$375,000.00		\$375,000.00	N	CO #6
PCO #44	11/4/2010	Enoboard Blocking Relocation	\$1,350.00	\$1,350.00		N	Open
PCO #45	9/28/2010	SIB#2 Redesign and Resetting of MH Covers	\$5,964.00		\$5,964.00	N	CO #7
PCO #46	10/5/2010	Added Electrical Outlets per ASI #57	\$5,535.00		\$5,535.00	N	CO #7
PCO #47	10/6/2010	Floor Tile Pattern Change	\$5,356.00		\$5,356.00	N	CO #7
PCO #48	10/6/2010	Bi-Fold Door Power (Per RFI 172.1)	\$6,598.00		\$6,598.00	N	CO #7
PCO #50	10/8/2010	Hardware Change to Intruder Function	\$5,811.00	\$5,811.00		N	Open
PCO #54	10/29/2010	Wiremold per RFI# 174.1	\$6,714.00	\$6,714.00		N	Open
PCO #56	10/29/2010	Existing Generator per RFI# 270	\$11,796.00	\$11,796.00		N	Open
PCO #57	11/2/2010	Raise Roof Drains per ASI #022	\$5,456.00	\$0.00		N	Open
PCO #58	11/4/2010	Eyewash Key Switch per RFI #266	\$530.00	\$530.00		N	Open
PCO #59	11/4/2010	Safety Glass Monitor Outlets per RFI #268	\$1,712.00	\$1,712.00		N	Open



Town of Hanover, Massachusetts
Hanover High School

PMA Construction Services
Owner's Project Manager

Progress Photos

View of Athletic Field from Main Building



Main Building South Elevation



Athletic Field Hanover "H" Logo



South Elevation Metal Roof Install and Windows



Athletic Field Rubber Pellet Placement



Classroom Wall Sound Deadening Insulation

