



Town of Hanover, Massachusetts
Hanover High School



PMA Construction Services
Owner's Project Manager

HANOVER HIGH SCHOOL PROJECT *November 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 428 of 611 to Ph1 Substantial:	70.0%

Project Safety Report

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

Open Scope / Potential Issues

- Decision regarding A/C @ Gym and schedule integration
- Temp heat in building A to complete & test rough MEP
- Paint & tile design issuance by Architect
- Terrazzo colors, start date & schedule integration
- Carpet, auditorium acoustic panels and stage curtain submittals
- Telephone, network and security vendor coordination
- NGRID permanent power for outbuildings
- Completion of maintenance and concession building worklist/punchlist activities for early turnover
- Commissioning coordination
- 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: \$50,076,789 as of 11/30/10
Actual Incurred to Date: \$29,748,338 as of 11/30/10 (59.4%)
Contingency Remaining: \$1,642,824(62.6%)
***Subject to Final Revised PFA Agreement*

Construction Cost Summary:

Award Value (Callahan):	\$38,652,255.00
Previously Executed CO's (Net)	\$819,813.17
Previous Contract Value:	\$39,472,068.17
CO's Executed this Month:	\$34,572.00
Current Contract Value:	\$39,506,640.17

Construction Payment Summary:

Previous Gross Amount:	\$23,350,804.38
This Month's Gross Amount:	\$1,618,137.89
Gross Amount to-Date:	\$24,968,942.27
Retainage To-Date @ 5%:	\$1,248,447.11
Retainage Released	\$0.00
Current Retainage	\$1,248,447.11
Total Net Payable To-Date:	\$23,720,495.16

Remaining Balance to Finish (gross):	\$14,537,697.90
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Project Status

November 2010 Progress

- | | |
|---|---|
| <ul style="list-style-type: none"> • 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) • Temp Heat Operational in Building B • Main Bldg Rough MEP Approximately 95% Complete • Permanent Power Online in Main Bldg | <ul style="list-style-type: none"> • 2nd & 3rd Floor Wallboard 95% Complete, 1st Floor Underway • Brick Veneer Installation Complete • Metal Roofing Installation Complete • Metal Panel Installation Underway • Completed Installation of Ph1A Concrete Unit Pavers • Building Commissioning Continued • Terrazzo Flooring Contract Executed |
|---|---|

December 2010 Forecasted Items

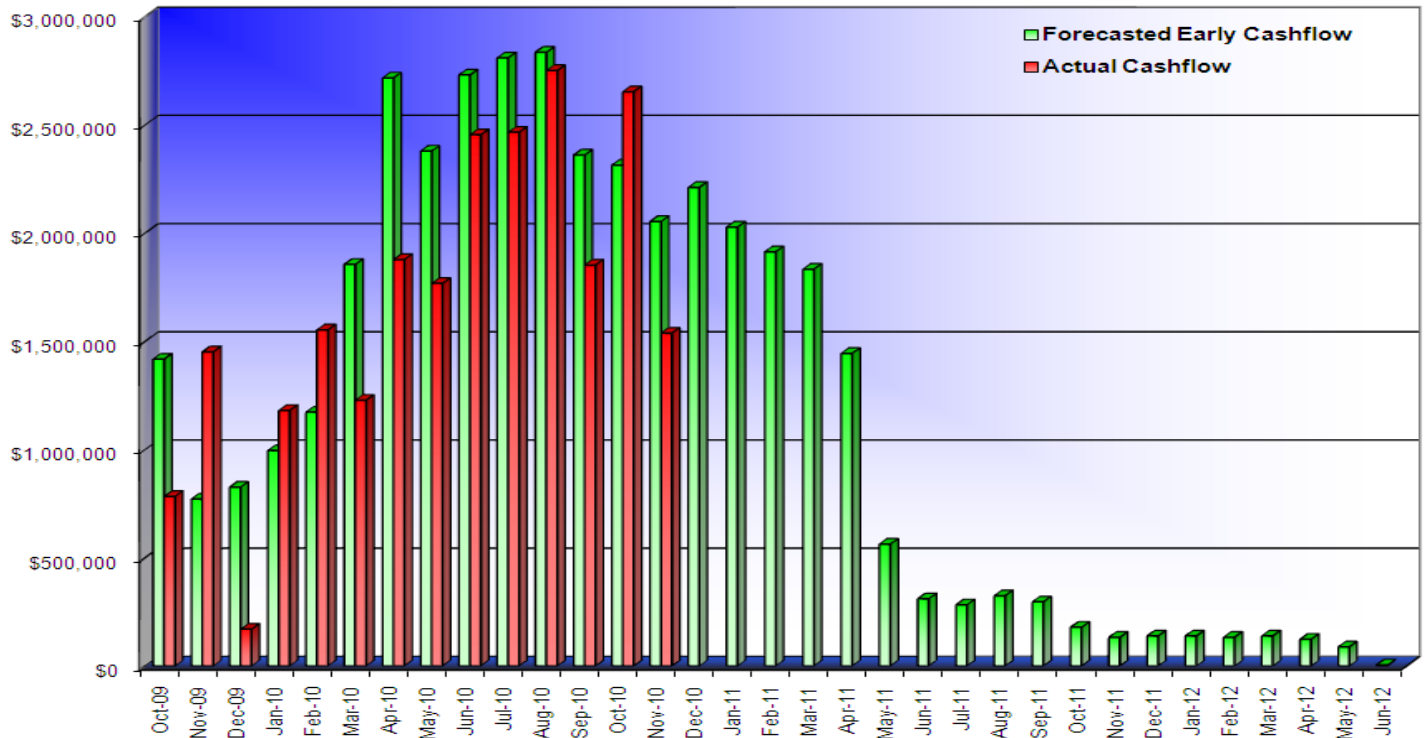
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|--|---|
| <ul style="list-style-type: none"> • Complete Classroom Wing Rough MEPs • Complete Sheetrock in Building B • Begin Prime/Paint Activities in Building B • Begin Building B Interior Finishes • Complete Phase 1A Worklist/Punchlist and Prep for Turnover • Terrazzo Flooring Schedule Integration | <ul style="list-style-type: none"> • Permanent Power Online in Outbuildings • Get Building A Temp Heat Operational & Begin Sheetrock • HVAC Unit Startup / Testing / Commissioning • Begin Boiler Room Equipment Installation • Deliver & Set Rooftop Units • Finalize Paint & Tile Designs and Process Auditorium Submittals |
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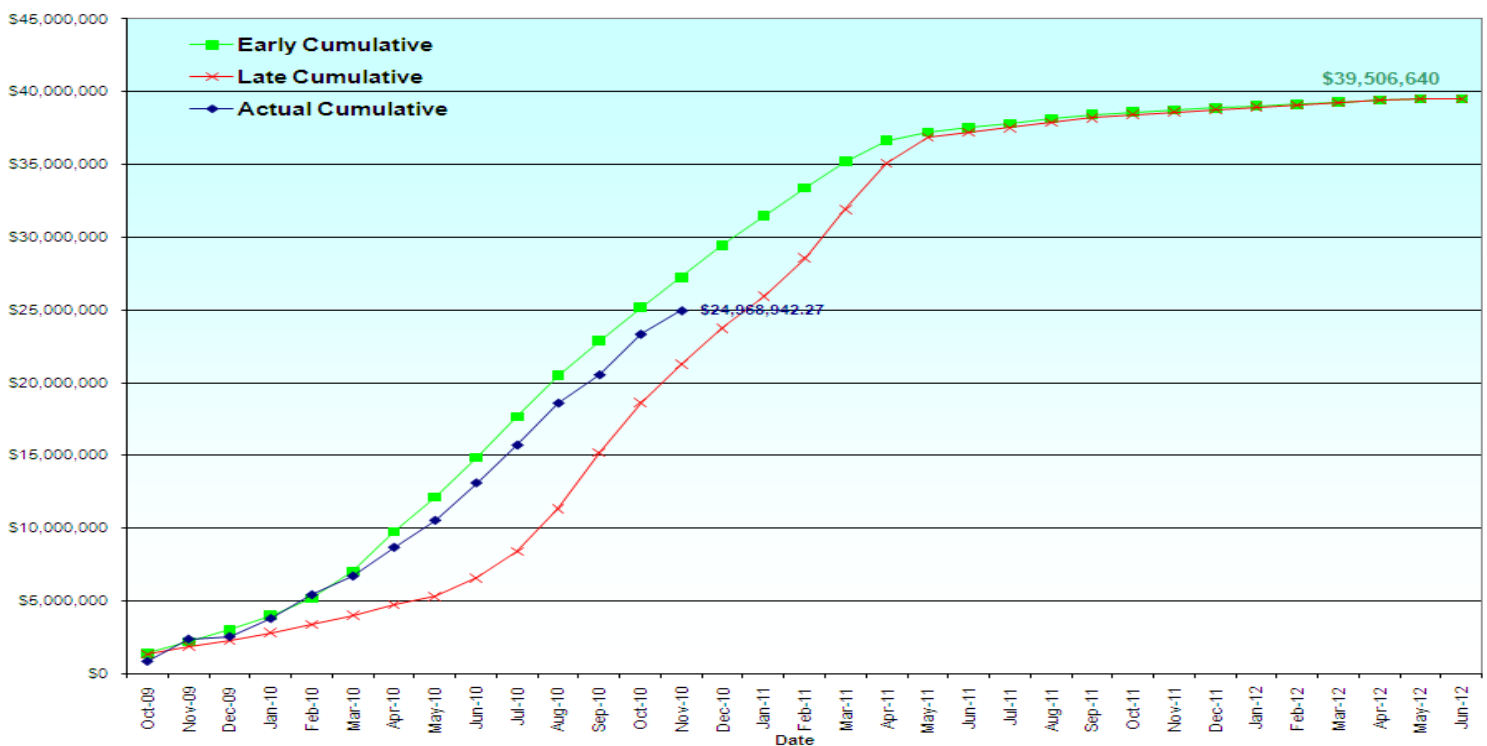
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Monthly Cashflow Projection



Cumulative Cashflow Projection



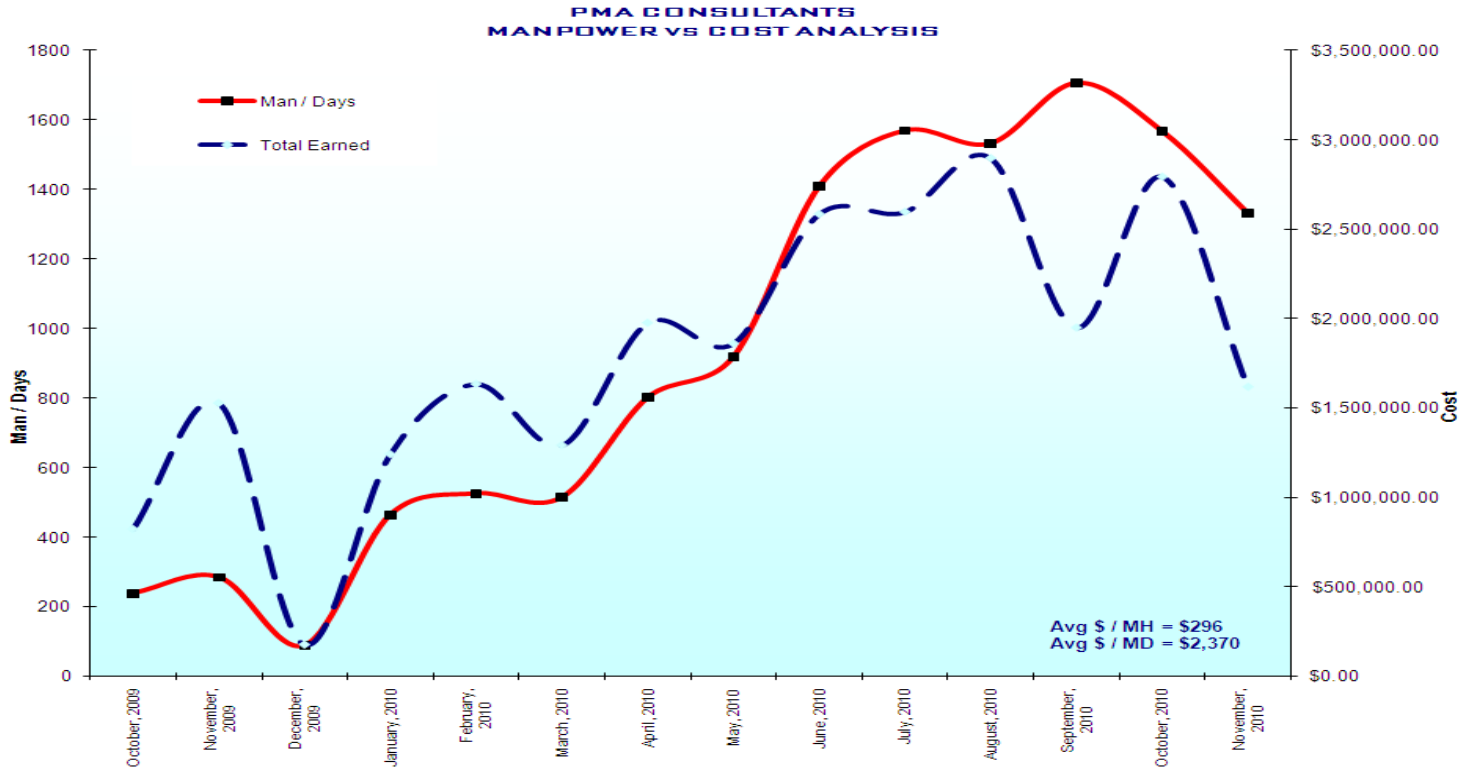


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Manpower vs Cost Analysis



Milestone Dates

Milestone Dates	Baseline	Forecast	Actual	Status	Schedule Notes
Construction Start - NTP	1Oct09		28Sep09	✓	On Schedule
Permanent Power Online	18Jan11		25Nov10	✓	On Schedule
Begin Prime / Paint Main Bldg	21Oct10	1Dec10			Critical Path Impacted: -3 Days Float – Working to Mitigate
Startup / Checkout Electrical Equipment	18Jan10	14Dec10			On Schedule
Ph1A Substantial Completion	1Sep10	14Dec10			No Critical Path Impact – Float Utilized
Erect Stair #4 – Cafeteria	6Jun10	15Dec10			Critical Path Impacted: -14 Days Float – Working to Mitigate
1 st Floor Drywall Complete, Taped, Sanded	19Oct10	18Jan11			Critical Path Impacted: -14 Days Float – Working to Mitigate
Begin Startup Checkout HVAC Systems	26Nov10	1Feb11			No Critical Path Impact – Float Utilized
Phase 1 Substantial Completion	1Jun11	21Jun11			Critical Path Impacted by 1 st Floor Rough MEP / Drywall String

HS12 Schedule Submission

Contract Milestone Analysis

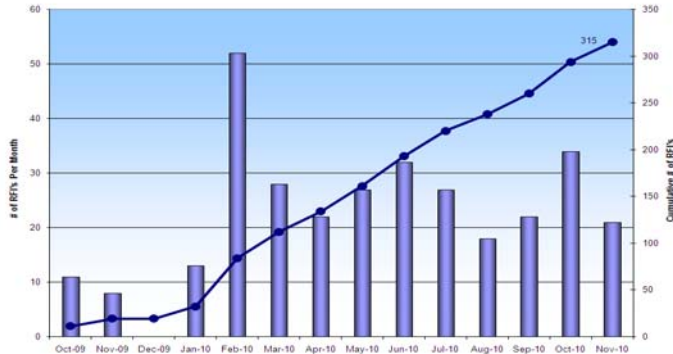
Phase	Contract	HS11	HS12	Float
Ph1 Substantial	01Jun11	01Jun11	21Jun11	-14
Ph1A Substantial	01Jun11	01Dec10	14Dec10	117
Ph2 Substantial	01May12	23Apr12	14May12	-9

- The primary critical path to Phase 1 substantial completion in the HS12 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 -14 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.

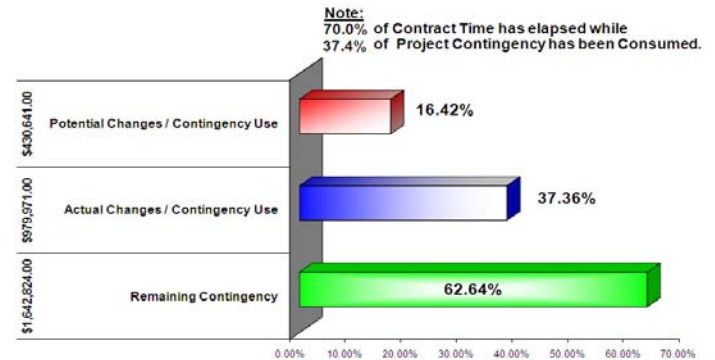


Graphs & Data

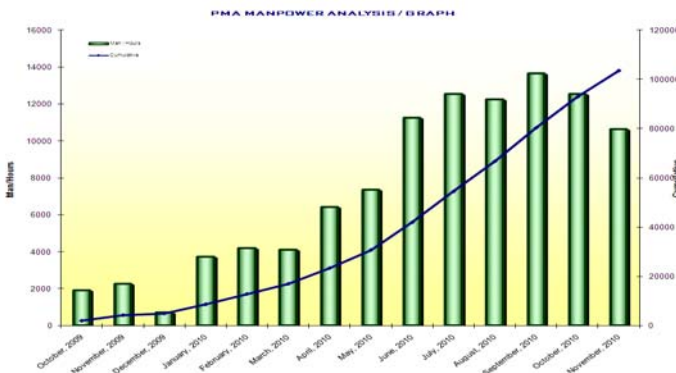
Requests for Information (RFIs)



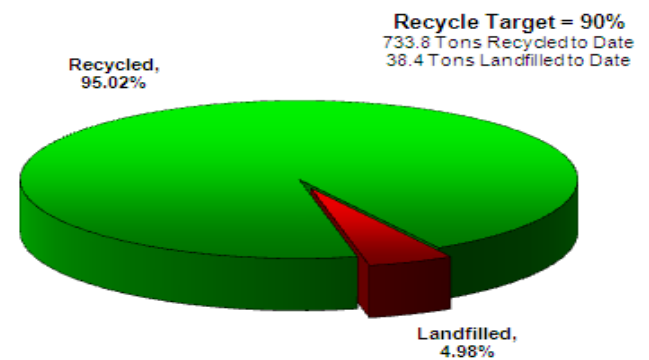
Contingency Utilization



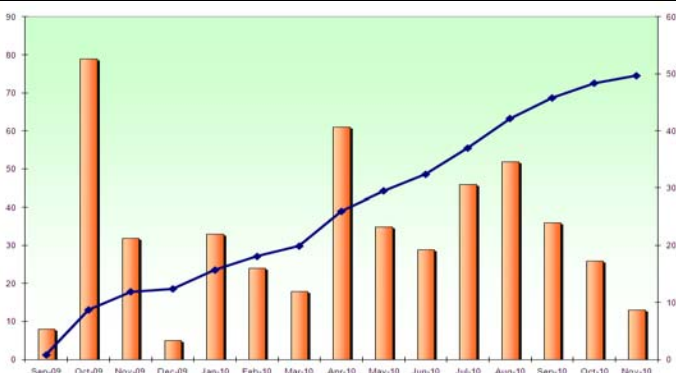
Monthly Manpower



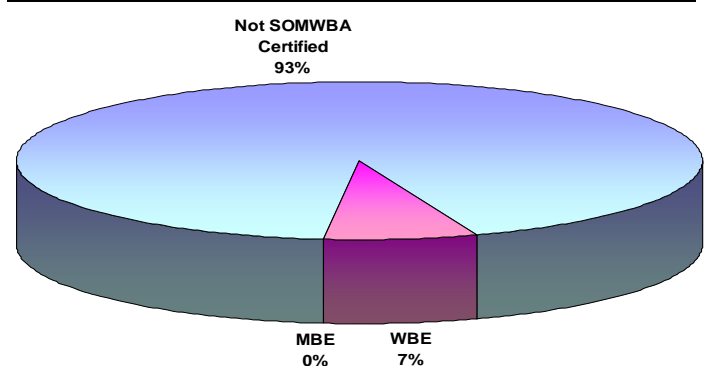
MA-CHPS Waste Management



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
PCO #18.001	7/30/2010	Cedar St. Grind & Re-pave	\$49,599.93	\$35,554.00		N	Open
PCO #20	6/30/2010	RFI #79 & 139 Additional Ductwork and Grills	\$6,195.04	\$3,980.29		N	Open
PCO #21	11/1/2010	Cedar School Track Access ASI CSS #003	\$8,387.00	\$8,387.00		N	Open
PCO #37	8/27/2010	Dimming Change and Overhead Coiling Doors	\$7,626.27	\$3,375.00		Y	Open
PCO #41(R1)	9/18/2010	Pre-cast Medallion and Brick Change	\$5,045.00	\$5,045.00		N	Open
PCO #50	10/8/2010	Hardware Change to Intruder Function	\$5,811.00	\$5,811.00		N	Open
PCO #53	11/17/2010	Aluminum Grate Change to Stainless Steel	\$8,841.00	\$8,841.00		N	Open
PCO #56	10/29/2010	Existing Generator per RFI #270	\$11,796.00	\$0.00		N	Open
PCO #57	11/2/2010	Raise Roof Drains per ASI #022	\$5,456.00	\$0.00		N	Open
PCO #64	11/19/2010	Added Duct Smokes per RFI #298	\$4,955.00	\$4,955.00		N	Open
PCO #67	11/20/2010	Bleacher Power per RFI #167	\$9,680.00	\$9,680.00		N	Open
PCO #68	11/20/2010	Water Heaters per RFIs #292 & 299	\$1,638.00	\$1,638.00		N	Open
PCO #69	11/20/2010	Re-labeling of Panel Schedules per RFI #237	\$2,743.00	\$0.00		N	Open
PCO #71	11/22/2010	Unit Heater Power per RFI #300	\$1,209.00	\$675.00		N	Open
PCO #73	11/22/2010	Conduit Extension per RFI #285	\$5,918.00	\$0.00		N	Open



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Progress Photos

Aerial View of Project



Concrete Unit Pavers @ Maintenance Bldg



Drainage Swale Landscaping



Phase 1A Final Paving @ Cedar Drive Entry



Concrete Unit Pavers @ Concession Stand



Athletic Field Lights

