





#### **PMA Construction Services**

Owner's Project Manager

### **HANOVER HIGH SCHOOL PROJECT**

September 2010 - Monthly Status Report

Hanover High School **Project: Building Size:** 157.000 **Ph1 Substantial Completion:** June 2011 **Current Phase:** Construction **Enrollment Projection:** 800 Students **Ph2 Substantial Completion:** May 2012 **Facility Type: Project Total Duration: Construction Type: NEW** High School 32-months **Construction Start Date:** 28Sep09 **Reimbursement Rate:** 48.21% Day 367 of 611 to Ph1 Substantial: 60.1%

#### **Project Safety Report**

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

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

- Athletic turf field sub base replacement due to soils drainage issue
- Getting building weathertight
- Window delivery date delayed by filed sub bidder's manufacturer
- Metal panel delivery date delayed
- Telephone and security vendor selection
- Installation of track surface and athletic field turf
- Seeding during Fall 2010 planting season
- NGRID permanent power date
- Building façade construction
- Completion of maintenance and concession building punchlist activities for early turnover
- Terrazzo contract procurement & schedule integration
- Resolution of commissioning agent punchlist items
- Preparation for FF&E / IT and move to new building
- Community Issues none at this time.

#### **Budget Status**

**Total Project Budget:** \$50,128,836 as of 9/30/10

**Actual Incurred to Date:** \$25,127,585 as of 9/30/10 (50.1%)

Contingency Remaining: \$2,142,459 (81.7%)

\*\*Subject to Final Revised PFA Agreement

Construction Cost Summary:Award Value (Callahan):\$38,652,255.00Previously Executed CO's (Net)\$254,551.12Previous Contract Value:\$38,906,806.12CO's Executed this Month:\$57,187.09

Current Contract Value: \$38,963,993.21

**Construction Payment Summary:** 

 Previous Gross Amount:
 \$18,609,643.38

 This Month's Gross Amount:
 \$1,948,871.00

 Gross Amount to-Date:
 \$20,558,514.38

 Retainage To-Date @ 5%:
 \$1,027,925.72

 Retainage Released
 \$0.00

 Current Retainage
 \$1,027,925.72

 Total Net Payable To-Date:
 \$19,530,588.66

Remaining Balance to Finish (gross): \$18,405,478.83

#### **Project Status**

#### September 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)
- Phase I Sitework 85% Complete
- Main Bldg Rough MEP Approximately 80% Complete
- 98% of Bldg Slab on Grade Complete

- 1<sup>st</sup>, 2<sup>nd</sup> & 3<sup>rd</sup> Floor Framing Complete
- 2<sup>nd</sup> & 3<sup>rd</sup> Floor Wood Blocking Underway
- Brick Veneer Installation Underway, Approx 40% Complete
- Maintenance & Concession Bldg Interior Finishes 90% Complete
- Metal Roofing Installation Underway
- Completed Construction of Athletic Field Stands
- Building Envelope Commissioning Ongoing

#### October 2010 Forecasted Items

- Continue Classroom Wing MEPs / Obtain Final Inspections
- Complete Sheetrock on 2<sup>nd</sup> and 3<sup>rd</sup> Floors
- Complete Slab on Grade Work List
- Complete Outbuildings, Close Punchlist and Prep for Turnover
- Athletic Field Re-Construction, Install Turf & Track
- Award Terrazzo Flooring Contract

- Turnover Tennis Courts (Previously Phase II)
- Continue Brick Façade Installation
- Deliver Windows to Site and Begin Installation
- Deliver Metal Panels and Begin Installation
- Permanent Power Online
- Roof Penetrations Deliver & Set Units

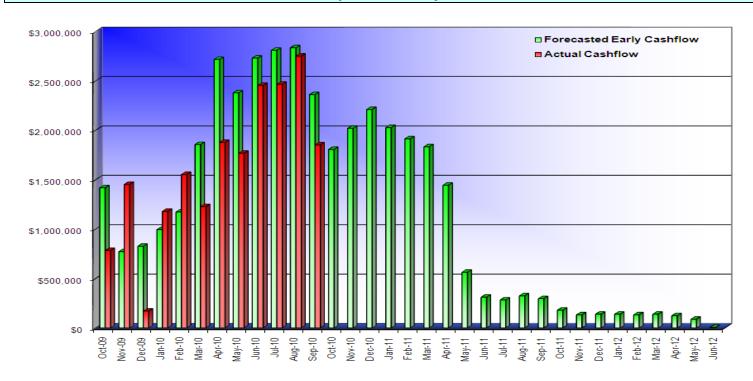




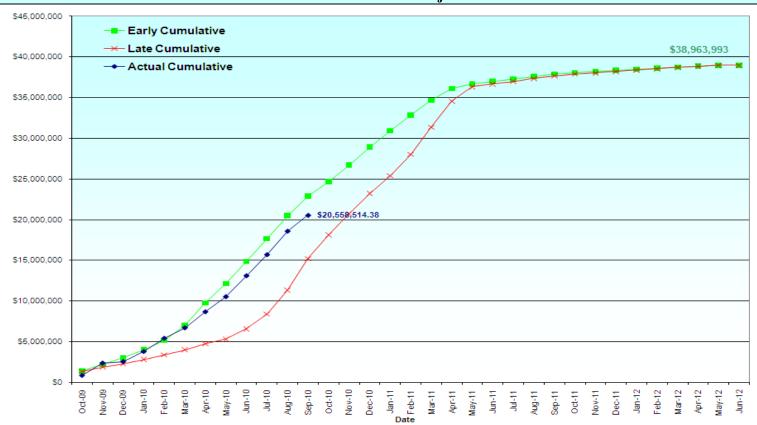
#### **PMA Construction Services**

Owner's Project Manager

#### **Monthly Cashflow Projection**









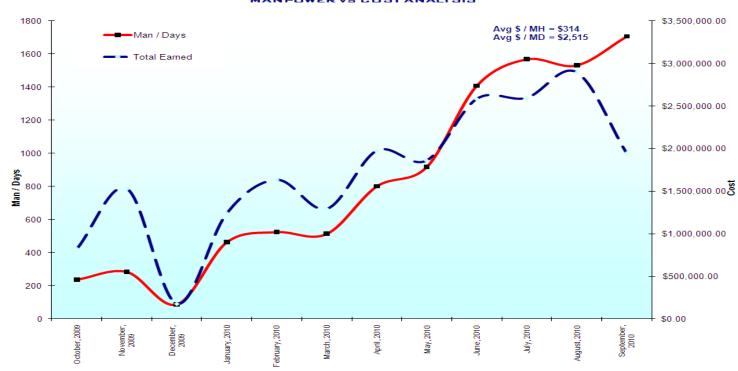


#### **PMA Construction Services**

Owner's Project Manager

#### **Manpower vs Cost Analysis**

# PMA CONSULTANTS 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	18Oct10			Critical Path Impact Mitigated by Temp Protection			
Ph1A Substantial Completion	01Sep10	12Nov10			No Critical Path Impact – Float Utilized			
Begin Startup Checkout HVAC Systems	26Nov10	07Dec10			No Critical Path Impact – Float Utilized			
Permanent Power Online	18Jan11	05Oct10			On Schedule			
Phase 1 Substantial Completion	01Jun11	26May11			On Schedule			

# HS09 Schedule Submission (HS10 September Update Not Yet Submitted)

Contract Milestone Analysis								
Phase	Contract	HS08	HS09	Float				
Ph1 Substantial	01Jun11	01Jun11	26May11	3				
Ph1A Substantial	01Jun11	14Sep10	15Oct10	157				
Ph2 Substantial	01May12	27Apr12	23Apr12	6				

- The primary critical path to Phase 1 substantial completion in the HS09 schedule submission flows through the main building interior framing, rough MEPs, drywall, interior finishes (incl. paint, floors, ceilings, doors, millwork/casework, MEP finishes, etc) and continues on to punchlist, HVAC startup/testing, & inspections. This path currently contains 3 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.



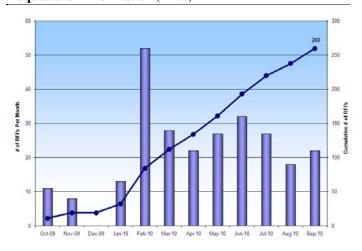


#### **PMA Construction Services**

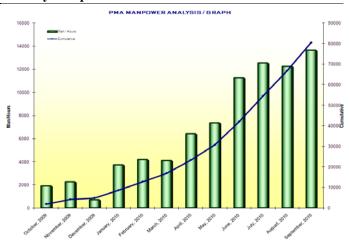
Owner's Project Manager

### **Graphs & Data**

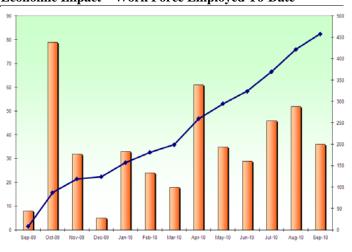
#### Requests for Information (RFIs)



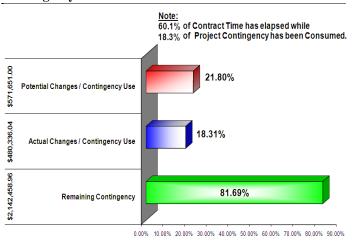
#### **Monthly Manpower**



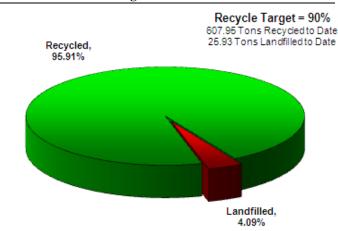
### **Economic Impact – Work Force Employed To-Date**



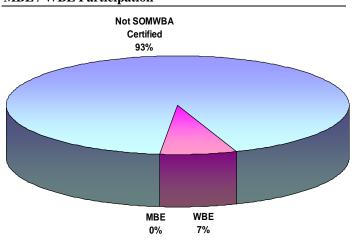
#### **Contingency Utilization**



#### **MA-CHPS** Waste Management



#### MBE / WBE Participation







# **PMA Construction Services**

Owner's Project Manager

# **PMA Change Management**



Rejected Open

Hanover High Sch	1001		-			1		Owner's Representa
			PMA Po	tential Cha	nge Order			
	Received	Description	Proposed Amount (\$)	Pending Amount (\$)	Approved Amount (\$)	Time Extension	PMA/HMFH Review	Current Status
		Total	\$724,141.01	\$196,651.38	\$311,738.21	(Y/N)		
CO #01	2/6/2010	Elevator Substitution Credit	-\$7,500.00		-\$7,500.00	N		CO #1
CO #02 CO #03	5/5/2010 3/17/2010	Water Main- Add'l Valves Unexpected Cold Weather Procedures	\$4,481.94 \$145,898.43		\$4,001.65 \$122,500.00			CO #1 CO #2
CO #04	5/5/2010	R&R Unsuitable @ Drain w/ Stone	\$4,146.14		\$3,605.34			CO #1
CO #05 CO #06	5/5/2010 3/16/2010	R&R Existing DMH in Poor Condition  Waterline Replacement Option #1 (Lopes)	\$3,526.40		\$3,147.98	N N	SUPERCEDED BY PCO #32	CO #1 Closed
CO #07	TBD	Force Main Repair	TBD	\$5,000.00		N	T&M. Callahan to turn over to	Open
CO #08R1	9/30/2010	Add'l MH & Wider Duct bank for NGRID (Without Griffin)	\$8,926.00		\$8,926.00	N	T&M. Callahan to turn over to	CO #5
30 700111							PMA/HMFH  No owner driven scope change for	
CO #08R2	9/30/2010	NGRID Changes: Griffin	\$39,037.00	\$39,037.00		N	Griffin work. Trades coordination issue	Open
CO #09	6/4/2010	RFI#123-2 Added Soffits for RLs @ B313 and B314	\$1,126.81		\$1,127.00	N		CO #4
CO #10 CO #11	5/26/2010	Lopes Swing set Relocation	\$3,628.90		\$3,628.90	N	***VOID*** PCO SUPERCEDED	CO #3 Closed
CO #12							***VOID*** PCO SUPERCEDED	Closed
CO #13	6/24/2010	ASI #27-10utbuilding Façade	\$56,713.93		\$47,575.25			CO #3
CO #14	8/4/2010	PR #8 Stair #4 Railing	\$29,266.87		\$31,123.00			CO #4
CO #15	7/2/2010	PR #9 Science Room Layout Changes	\$8,087.72	\$2,805.00		N	HMFH reviewing	Open
CO #16	7/30/2010	Additional Pruning Around Track	\$24,732.89		\$24,733.00	N		CO #4
CO #17	7/28/2010	ASI#39 Relocate Conduit at Cedar School	\$136,379.44			N	Rejected- Owner decided to go through school not around school. PCO was originated from PR, owner withdrew.	Closed
CO #18.001	7/30/2010	Cedar St. Grind & Re-pave	\$49,599.93	\$35,554.00		N	PMA Reviewing + Requesting Overlay	Open
CO #19							Callahan reserved for future use  Callahan provided \$322 direct cost	
CO #20	6/30/2010	RFI #79 & 139 Additional Ductwork and Grills	\$6,195.04	\$6,195.04		N	credit. Need to apply labor cost. Should be closer to \$500-\$600 (see Simmler Email)	Open
CO #21							Callahan reserved for future use	
CO #22 CO #23	7/31/2010 8/6/2010	45 Degree Angles Curb and radiuses Return ASI #32 Metal Wall Panels Credit	\$5,561.18 -\$20,000.00		\$5,561.00 -\$20,000.00		HMFH reviewing credit. Will be included	CO #4 CO #5
CO #24	8/10/2010	Concessions Drainage and Fence Revision	\$7,223.45		\$6,500.00	N N	in CO #5 if HMFH approves.	CO#4
CO #25	8/10/2010	ASI#34 Hand Dryers Added Wire at Concession Stand	\$56,864.96	\$56,865.00	\$0,500.00	N	HMFH Reviewing	Open
O #26	8/25/2010	ASI#49 Bollards at Maint. Bldg	\$3,547.77		\$3,548.00	N N		CO #4
CO #27	8/25/2010			e2 226 AA		N	Off Set with Deleted Construction	
50 #21	6/25/2010	Additional Shoring of Decks Per SKS CA03-05	\$3,336.00	\$3,336.00		N	Joints. Arch design issue. 9/31: Currently being disputed.	Open
CO #28	8/30/2010	Dual Ring Infiltrometer Test	\$4,109.98	\$4,109.98		N	Previously rejected- Need to revisit since issuance of CCD #4. PMA is	Open
CO #29(R1)	8/25/2010	Misc. Lopes	\$1,930.00		\$1,930.00	N	recommending approval	CO #5
CO #30	8/25/2010	Blocking for Visual Display Boards	\$5,000.00		\$5,000.00	N		CO #4
CO #31	8/25/2010	Path to Scoreboard	\$5,124.36	\$5,124.36		N	HMFH to Review. PMA Requested Backup for Pricing	Open
CO #32	9/26/2010	Water Main Revisions	\$84,507.51		\$59,894.00		Update 5/20: WILL PROCEED on T&M basis NTE \$77k, cost to be finalized in	CO #5
CO #33							CO. Callahan reserved for future use	
CO #34	9/26/2010	Change Water Service to Building to Copper	\$5,306.00		\$5,306.00			CO #5
CO #35	8/26/2010	Concession Manhole Covers	\$1,131.09		\$1,131.09	N		CO #5
CO #36							Callahan reserved for future use Rejected: Need breakdown from Griffin	
CO #37	8/27/2010	Dimming Change and Overhead Coiling Doors	\$7,626.27			Υ	showing schedule impact.	Closed
CO #38 CO #39	9/17/2010	Acid Waste Vent Relocation	\$12,004.00	\$12,004.00		N	Callahan reserved for future use HMFH/GGD reviewing cost	Open
CO #40	9/27/2010	Landscaping Irrigation Revisions	\$21,576.00	\$21,576.00		N	HMFH Reviewing	Open
CO #41(R1)	9/18/2010	Pre-cast Medallion and Brick Change	\$5,045.00	\$5,045.00		N	Need to see credit for less complicated	Open





### **PMA Construction Services**

Owner's Project Manager

# **Progress Photos**



**Temp Weather Protection Installation** 



 $Infiltration \ Bed \ \#2 \ Installation \ (Phase \ II \ Scope - Ahead \ of \ Schedule)$ 





**View of North Elevation from Athletic Field** 



Insulation / Prep for Metal Wall Panels

