

**Trumbull High School Building Committee**  
**MINUTES**  
**May 11, 2011**

Call to Order: The Chairman, Mr. Nugent called the meeting to order at 7:11 p.m.

Present: Ms. Bivona, Mr. Chmielewski, Mr. Doyle, (arrived at 7:24 p.m.), Ms. Flynn, Mr. Lemay, Mr. Nugent, Mr. Preusch, Mr. Ronnow, and Ms. Timpanelli.

Absent: Mr. Jenkins, Mr. McCabe and Mr. Meisner.

Also Present: Mr. A. Barbarotta, AFB Construction Management, Mr. John Barbarotta of AFB Construction Management, Stephen Burgess of JCJ, Greg Smolley of JCJ, Julie Norris of JCJ, Brian Holmes of O&G, Joe Vetro O&G On-Site manager, Tom Walsh of AP Construction, Attorney Donofrio, Mr. Jeff Hackett, BoE Technology Director, Mr. Kerwin Technology Consultant.

A Smartboard demonstration by Mrs. Pacelli, Trumbull High School Technology leader/teacher and Mr. Hackett BoE Technology Director took place in classroom #T-10. The new Smartboards are digital and interactive; the newest feature is the ability of two people using the board simultaneously and that the handwriting recognition has been upgraded significantly. The new features are very intuitive and smooth. Training new users is significantly easier due to ease of use; people who previously would have been apprehensive to use are now able to use the boards as an intricate part of their program. Lessons are created, adapted and used right away.

(Mr. Doyle arrived at 7:24 p.m.)

The internet can be used while using the Smart board software, and are integrated with pc monitors and speakers. An additional new feature is the ability to use dry-erase markers. The license includes the home use ability for every teacher. Smart board is focused on education; its technology has leapfrogged over the Eno boards in the last two (2) years. The next step in technology is expected to be 3-D software development.

In response to a question from Ms. Flynn, Mr. Smolley explained that originally at the time the technology was specified for the project, Eno boards had stepped over Smartboards in technology, which is why Eno boards were originally specified for the project. Now Smart board has leaped over the Eno boards by light years in technology.

(The Smartboard presentation ended at 7:40 p.m.)

Mr. Kerwin distributed and reviewed in detail the VANDERWEIL handout with the building committee members. The construction documents identified 79 locations for Eno boards – the projectors and program audio systems were included in the technology budget, subsequently the school district has standardized the use of the current version of Smartboards. 16 additional locations have been identified at the high school; these include lab and similar teaching spaces.

The impact of changing the original 79 locations from Eno boards to Smartboards is as follows:

Projectors and program audio (delete)	79	1,900.00	-150,100.00
Credit for 79 Eno boards	1		-92,435.00
Smartboards and program audio	79	4,688.00	370,352.00
		<b>Total Impact of Upgrade</b>	<b>127,817.00</b>

The impact of adding Smartboards to 16 additional locations is as follows:

Smartboards and program Audio	16	4,688.00	75,008.00
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Total impact to the budget for additional technology is:	202,825.00
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The building committee questioned who deemed the 16 additional teaching spaces as necessary as opposed to the specified areas of two years ago. Mr. Smolley was explained that two years ago not all teachers were aware of the capabilities of the boards and the ease of training has increased its availability to more teachers. The building committee questioned if the boards were hardwired or whether there was some mobility to the boards? It was explained the boards are hardwired.

Ms. Timpanelli spoke to benefit of the boards to the upcoming 2013 NAEC accreditation of the school. Ms. Flynn spoke in favor of having the same boards district-wide. Mr. Doyle spoke to the universal modality from a teaching standpoint.

Mr. Barbarotta stated that at the May 12, 2011 BoF meeting there is a resolution representing a reduction to the high school renovate as new bonding from \$68.7 million to \$64.7 million and further explained that items approved would be coming from the contingency line item of the budget. Mr. Holmes stated that there is \$600,000 to come form the contingency line item to date, the Smartboard upgrade at \$200,000 would bring that total to \$800,000.

The Chair noted that the proposed paving represents a large dollar amount to the budget; Mr. Holmes agreed that the paving may be able to be reduced to offset some of this upgrade. Mr. A. Barbarotta stated that there is a finite amount of funds available and decisions will need to be made accordingly. (Mr. Ronnow arrived at 7:50 p.m.)

Ms. Flynn spoke in favor of the technology upgrade, explaining technology is a strong educational tool and needs to be updated at the high school.

Mr. Ronnow stated that the Town is working within a budget as we all are at home; Mr. Ronnow suggested the use of portable Smartboards in lieu of the 16 additional locations. Mr. Hackett explained that the cables necessary to be run with the portables would create an unsafe environment.

Mr. Preusch stated that each month the building committee is hearing of a new issue; last month it was the scheduling, this month it is the Smartboards, suggesting that the building committee be notified of what issues may arise or is expected to come ahead of time instead of a month to month basis. Mr. Ronnow cautioned that the committee has not heard from the trades yet. Mr. A. Barbarotta noted that the project has not had any significant delays to the project. Mr. Vetro stated that the O&G always defends the docs and schedule.

The Chair clarified for the building committee that the proposal is to spend \$202,825 and spoke in favor of approving the advanced Smartboards for the original 79 locations.

Moved by Ms. Flynn, seconded by Ms. Bivona to approve the change from Eno-Boards to Smartboards; a quantity of 79 Smartboards with a net cost of \$127,817. VOTE: Motion carried 8-1(Against: Doyle)

Approval of Minutes:

Ms. Flynn moved, seconded by Mr. Chiemelewski to approve the March 23, 2011 meeting minutes. VOTE:Motion carried 8-0-1 (Abstention: Doyle)

Moved b Mr. Ronnow, seconded by Ms. Bivona to approve the April 13, 2011 meeting minutes. VOTE: Motion carried 6-0-3 (Abstention: Flynn, Doyle and Lemay).

Owner's Rep Update: Mr. A. Barbarotta reported that the goal is to have the bleachers installed and ready for use for graduation. The concession stand and paving is still in review at the State, these are not critical path items and will not affect the schedule.

Construction Manager Update:

Mr. Vetro reported that the front vestibule/administrative area are currently being worked on. The extra person will be done on the May 13, 2011. The delivery of the bleachers is anticipated for next week; the foundation work starts tomorrow, May 12, 2011.

In response to the Chair, Mr. A. Barbarotta reported that the anticipated finish date for the bleachers is the 17<sup>th</sup>. Mr. J. Barbarotta added that the Special Olympics are scheduled to take place at the THS field (one of the events that were not possible to relocate). The field will be ready for the event. The Chair commended the professionals on a job well done.

Architect's Update:

Ms. Norris distributed the THS FF&E Award Summary to the building Committee \_ (See Attached).

Ms. Norris reported that Ms. Bivona, Ms. Timpanelli and herself had met three times and reviewed the FF&E line item by item to consider which items could be eliminated or reduced. The sub-committee paid close attention to classroom furniture; samples of all classroom furniture that was bid had been evaluated side by side. It was determined that the low bid did not meet specifications; the next lowest bidder was chosen. All furniture is required to meet ADA code compliance. It was determined that the following items could be removed/deleted:

- The benches in the counselors' office at a cost of \$7,395.
- Divider Panels second floor teacher collaboration area at a cost of \$14,315.95
- Teacher stools at a cost of \$4,745.00
- Senior lounge furniture at a cost of \$24,570.00

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Representing a total reduction of \$51,025.95

In response to the Chair, Ms. Norris could not confirm whether there was furniture specified for the 13 classroom addition, but would provide the information at the next meeting. Ms. Norris explained that between the time the classroom additions and the renovate-as-new project's FF&E had been specified regulations had not changed, but the BSF had changed their review process of the furniture. The BSF review is now a very detailed approval process; therefore the furniture is looked at very closely for ADA compliance.

Ms. Bivona spoke on behalf of the senior lounge soft seat furniture and the replacement thereof. It was the consensus of the building committee not to consider replacing the senior lounge seating. The seating had been provided at the time the senior lounge was constructed. Ms. Bivona spoke against the removal of the senior lounge soft seating by an unknown entity.

Ms. Norris explained that with regard to the no-bid items, Science Equipment-not safety related items; T.V. studio furniture and culinary equipment, JCJ will get quotes on those items. The cost estimate for the no-bid items is \$36,040; the estimate is above what the bids had come in; JCJ will circulate back and discuss these items at a later date. The \$36,000 cost estimate is included in the over budget amount of (\$106,818.12). Mr. Lemay noted that the FF&E is approximately 10% over budget. Mr. Smolley stated that a further reduction of \$60,000 could not be found without changing the functionality of the school.

Mr. Preusch spoke in favor of the FF&E noting that portions of the project which come in last are notably the most important and usually is the most visible portion of the project.

Moved by Ms. Bivona, seconded by Ms. Timpanelli to approve the FF&E Award Summary as recommended by JCJ dated May 11, 2011 in the amount of \$1,178,463. VOTE: Motion carried unanimously.

Mr. Burgess distributed the LEED for Schools Registered Project List dated May 2, 2011 to the building committee (See Attached).

(Ms. Timpanelli left the meeting at 8:54 p.m.)

Mr. A. Barbarotta stated that the project is on target to meet LEED Silver.

(Ms. Timpanelli returned to the meeting at 8:55 p.m.)

(Ms. Bivona left the meeting at 8:56 p.m.)

The THS Renovate-as-New project is at 42 LEED points – LEED Silver rating is 37-43 points.

Mr. Burgess reported that the LEED submittal has been prepared and is ready for submittal.

Mr. Holmes reported that 5-6 items previously listed as likely's having moved over to definites on the LEED Checklist.

(Ms. Bivona returned to the meeting at 8:58 p.m.)

Mr. Holmes reported that there are only three (3) unlikely's remaining on the list and the final outcome of the LEED Checklist and point tabulation would be known at the end of the project in September 2012.

Moved by Mr. Doyle, seconded by Mr. Ronnow to approve the proposal for the LEED Registration Submittal (qualifies as a reimbursable expense) in the amount of \$14,170.92. VOTE: Motion carried unanimously.

#### Construction Manager Monthly Progress Report:

Mr. Vetro reported that Phase 1 is at 99% complete, Phase 2 is at 41% complete; construction funds available to date are \$2,013,183.

Mr. Vetro reviewed the change-orders by trade contractors with the building committee.

1. The hand dryers' pricing is currently being worked on and would anticipate that cost to be reduced.
2. The replacement of the gym had been bid as an add-alternate at \$85,000; the floor is now cupping. Mr. J. Barbarotta explained that approximately 1 ½ years ago a sprinkler had leaked the areas that were damaged were patched and replaced; when the project looked at the floor 1 ½ years ago it was not cupping at that time. Mr. Vetro explained that the insurance deductible is \$ 500,000.
3. The original design of the commons ceiling was for it to be left open; it has been determined that it would need to be filled in with a dropped ceiling to reduce the noise factor – representing a cost of \$74,786.
4. The kitchen floor if quarry tile would be at a cost of \$64,600; the alternative is to paint the floor with an epoxy coating. The advantage of the quarry tile is that it is a clean installation, quick set could be used by the second shift but will impact the schedule. The epoxy finish has a strong VOC but is less costly than the tile.

Ms. Flynn moved, seconded by Mr. Lemay to approve the epoxy finish for the kitchen area flooring. The building committee discussed the floor finishes; the consensus of the committee was to use the epoxy floor finish for the kitchen area. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Mr. Lemay to approve the waste removal in the amount of \$55,000 to come from the CM contingency. This item is a record keeping issue for LEED. VOTE: Motion carried unanimously.

Ms. Bivona moved, seconded by Mr. Doyle to approve the ACI- Café Ceiling (dropped ceiling) in the amount of \$74,786. A lengthy discussion of the spiral vs. rectangular ductwork, noise issues and maintenance issues ensued. VOTE: Motion carried 8-1(Against: Flynn).

Monthly Construction Progress Report Cont'd:

In response to Mr. Ronnow, Mr. Vetro explained that there had been a conflict with the roof and glass installation of the entrance area, the final answers have just been received.

Mr. Vetro stated that he is on-site all week plus Saturdays and invited the building committee to come to the site at any time; he only asked for safety reasons to come to trailer first and he would walk the site with you.

Mr. A. Barbarotta distributed a change order list to building committee the project is at 1.8% in change orders to date. Atty. Donofrio stated that with regard to quantifying E/O up-charges (errors and omissions), that the architect is held to normal standards of good professional practice.

Invoice Approvals:

Moved by Ms. Flynn, seconded by Ms. Timpanelli to approve the AFB Application #34 in the amount of \$13,100. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Mr. Doyle to approve AMC Invoice #'s A0411-14, A0411-17 and A0411-18 for a grand total amount of \$14,794.50. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Ms. Bivona to approve Inv. #31 from JCJ Arch in the amount of \$19,068.84. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Ms. Bivona to approve Inv. # 22 from O&G in the amount of \$2,009,385. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Ms. Bivona to approve the Insalco Corp Inv. # 1623 & 1682 in the total amount of \$6,302.67. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Ms. Bivona to approve the Advanced Corp. NW Inv # 28078 in the amount of \$49,388. VOTE: Motion carried unanimously.

Ms. Flynn moved, seconded by Ms. Bivona to approve the RnB Enterprise, Inc Inv. 49388 in the amount of \$41,184 representing installation of cables and TV's. VOTE: Motion carried unanimously.

MS. Flynn moved, seconded by Ms. Bivona to approve the Wholesale Computer Inv. # SI-44676 in the amount of \$356.04 representing on-going computer fiber optic interfacing piece. VOTE: Motion carried unanimously.

Moved by Ms. Timpanelli, seconded by Ms. Bivona to approve the AFB proposal to keep the Clerk of the Works for the summer hours at 40 hours per week and to bill John Barbarotta at the 40 hours per week.

Mr. A. Barbarotta explained that John Barbarotta is on site approximately 60 hours per week; although the contract allows for billing at 10 hours per week. Mr. Barbarotta proposed to keep the clerk of the works on-site for the summer at 40 hours per week and to have John Barbarotta on site and billed for at 40 hours per week, and if approved to revisit this approval in September. Ms. Timpanelli spoke in favor of the proposal as did Mr. Preusch. VOTE: Motion carried unanimously.

There being no further business to discuss the THSBC adjourned by unanimous consent at 10:03 p.m.

Respectfully submitted,

  
Margaret D. Mastroni, Clerk

**Trumbull High School  
Furniture, Furnishings Equipment**

JCJ Project No.: H05071.00

Date: 5/11/2011

<b>Award Summary</b>					
<b>Category/Items</b>	<b>Vendor</b>	<b>Total Award</b>	<b>Estimate for Items Not Bid</b>	<b>VE Items</b>	<b>Comments</b>
A009A, A010A & A018	RIS	\$47,515.00		\$7,395.00	Guidance Benches
A001-A008, A011-A014	Robert H Lord Company	\$146,098.92			
A015-A017	BBE	\$0.00		\$14,315.95	Panel Dividers
B001-B005	School Specialty	\$69,620.10			
C001	Contrax Furnishings	\$16,407.15			
D001-D003	RIS	\$36,440.00		\$4,745.00	Teacher Stools
D004, D006-D016	BKM	\$31,649.41			
E001-E004, E005-E007	Robert H Lord Company	\$20,032.49			
G001	Insalco	\$651.17			
G002-G003	RIS	\$0.00		\$24,570.00	Senior Lounge
H001-H004	RIS	\$26,619.00			
J001-J003	BKM	\$12,807.64			
J004	Robert H Lord Company	\$63,082.72			
L001-L005	BBE	\$35,984.43			
L006-L014	Robert H Lord Company	\$81,372.45			
L015-L016	RIS	\$27,840.00			
M001 - M012	Merchandise Mart	\$77,955.00			
N001-N002	WB Mason	\$3,054.00			
N003	Insalco	\$1,155.75			
P001	Merchandise Mart	\$44,360.00			
P002	Wenger Corporation	\$113,654.00			
P003	Drobka Scenic Inc.	\$25,588.00			
Q001 & Q002	School Specialty	\$13,430.55			
Q003-Q005	Merchandise Mart	\$26,664.00			
R001-R003	No Bid		\$10,600.00		
S001-S002	Robert H Lord Company	\$41,222.00			
S003-S006	No Bid		\$5,440.00		
S007-S118	Eliminate				
W087 & W089	Insalco	\$4,993.36			
W095	No Bid		\$20,000.00		
X001, X002	Eliminate				
Y012, Y013	RIS	\$33,731.84			
Y004-Y00, Y007-Y011	Insalco	\$15,234.02			
Z001-Z003	Office Resources	\$6,764.60			
<b>Total:</b>		<b>\$1,023,927.60</b>	<b>\$36,040.00</b>	<b>\$51,025.95</b>	





LEED for Schools



Steven Winter Associates Inc

LEED for Schools Registered Project Checklist

2-May-11

Trumbull High School Renovation & Additions  
Trumbull, CT

Key:  
 Yes - Project either currently complies or can easily comply with minimal cost.  
 Likely - Project can easily comply with minimal cost, but verification or minimal changes to current design are needed.  
 Less Likely - Compliance will have significant impact of cost, design, and/or schedule.  
 No - Either not applicable or cost prohibitive.

6 0 1 9					Sustainable Sites	Responsible Party	Due by	Comments
C					Prereq 1 <b>Construction Activity Pollution Prevention</b> Status/Comments: Implement an Erosion and Sedimentation Control (ESC) Plan	SBA		ESC has been provided by SBA.
D					Prereq 2 <b>Environmental Site Assessment</b> Status/Comments: Conduct a Phase I Environmental Site Assessment (ASTM E1527-05)	DTC/ SWA	Completed/ Uploaded	Credit uploaded
D	1				Credit 1 <b>Site Selection</b> Status/Comments: Do not develop on farmland; undeveloped land lower than 5' above 100-year flood plain; habitat for endangered or threatened species; within 100' of a wetlands; undeveloped land within 50' of a body of water; or public parkland.	SWA	Completed/ Uploaded	Credit uploaded
D				1	Credit 2 <b>Development Density &amp; Community Connectivity</b> Status/Comments: Opt. 1. Construct or renovate building on a previously developed site AND in a community with a minimum density of 60,000 square feet per acre net OR Opt. 2. Construct or renovate building on a previously developed site AND within 1/2 mile of a residential zone or neighborhood with an average density of 10 units per acre net AND within 1/2 mile of at least 10 Basic Services AND with pedestrian access between the building and the services.	N/A		Credit not attempted
D	1				Credit 3 <b>Brownfield Redevelopment</b> Status/Comments: Develop on a contaminated site as defined by ASTM E1903-97 or by local, state or federal governmental agency. EPA 40 CFR 753 referenced.	DTC/ SWA	Completed/ Uploaded	Credit uploaded
D				1	Credit 4.1 <b>Alternative Transportation, Public Transportation Access</b> Status/Comments: 1/4 Mile walking distance of 2 bus line stops or 1/2 mile from commuter rail stop.	N/A		Credit not achievable. No public bus route.
D				1	Credit 4.2 <b>Alternative Transportation, Bicycle Use</b> Status/Comments: Provide bicycle racks for 5% of peak building users and shower facilities for 0.5% of FTE occupants. Access two ends of property.	N/A		Not targeted. Land and streets surrounding facility is not conducive to kids riding bikes
D	1				Credit 4.3 <b>Alternative Transportation, Low-Emitting and Fuel-Efficient Vehicles</b> Status/Comments: Provide preferred parking for low-emitting & fuel efficient vehicles for 5% of the total parking spaces provided. 1 other option available.	CR3/SWA	Completed/ Uploaded	Credit uploaded
D				1	Credit 4.4 <b>Alternative Transportation, Parking Capacity</b> Status/Comments: Option 1: Parking Capacity not to exceed minimum local zoning requirements and provide preferred parking for carpools or vanpools for 5% of the total provided parking spaces. Option 3: Provide 25% less parking spaces than the ITE standard if there is no local minimum zoning requirement.	N/A		Credit will not be attempted. Project would not be allowed to exceed 429 parking spots but current projection is 772.
C				1	Credit 5.1 <b>Site Development, Protect or Restore Habitat</b> Status/Comments: Previously developed sites: Restore or protect 50% of site area (excluding building footprint) with native or adaptive vegetation.	N/A		
D				1	Credit 5.2 <b>Site Development, Maximize Open Space</b> Status/Comments: Provided vegetated open space equal or greater than 20% of the project site.		Completed/ Uploaded	Credit uploaded
D				1	Credit 6.1 <b>Stormwater Design, Quantity Control</b> Status/Comments: CASE 1 — EXISTING IMPERVIOUSNESS IS LESS THAN OR EQUAL TO 50%. Implement a stormwater management plan that prevents the post-development peak discharge rate and quantity from exceeding the pre-development peak discharge rate and quantity for the one- and two-year 24-hour design storms. OR Implement a stormwater management plan that protects receiving stream channels from excessive erosion by implementing a stream channel protection strategy and quantity control strategies. OR CASE 2 — EXISTING IMPERVIOUSNESS IS GREATER THAN 50%. Implement a stormwater management plan that results in a 25% decrease in the volume of stormwater runoff from the two-year 24-hour design storm.			Not targeted. Town requirements do not comply with LEED.

D			1	Credit 6.2	<b>Stormwater Design, Quality Control</b> Status/Comments: Implement a stormwater management plan that reduces impervious cover, promotes infiltration, and captures and treats the stormwater runoff from 90% of the average annual rainfall using acceptable best management practices (BMPs).			Not targeted. Town requirements do not comply with LEED.
C			1	Credit 7.1	<b>Heat Island Effect, Non-Roof</b> Status/Comments: Opt. 1 Provide any combination of the following strategies for 50% of the site hardscape (including roads, sidewalks, courtyards and parking lots): • Shade (within 5 years of occupancy) • Paving materials with a Solar Reflectance Index (SRI) of at least 29 • Open grid pavement system OR Opt. 2 Place a minimum of 50% of parking spaces under cover (defined as under ground, under deck, under roof, or under a building). Any roof used to shade or cover parking must have an SRI of at least 29.	N/A		Credit not attempted.
D	1			Credit 7.2	<b>Heat Island Effect, Roof</b> Status/Comments: Opt. 1 Use roofing materials having a SRI 78 for a minimum of 75% of the roof surface. OR Opt. 2 Install a vegetated roof for at least 50% of the roof area. OR Opt. 3 Install combination of high albedo and vegetated roof surfaces.		Completed/Uploaded	TPO roof will be installed. Three areas will not be reroofed.
D	1			Credit 8	<b>Light Pollution Reduction</b> Status/Comments: Limit interior lighting exiting building and limit site lighting.	DTC	Completed/Uploaded	
D			1	Credit 9	<b>Site Master Plan</b> Status/Comments: Achieve 4 of 7 SS credits above and School Board collaborated in Site Master Plan development for the building site and this addition.			Review. Only 3 of 4 required credits anticipated so far. (SSc 1, 5.1, 5.2, 6.1, 6.2, 7.1, 8)
D	1			Credit 10	<b>Joint Use of Facilities</b> Status/Comments: 3 Options on joint use by the general public and other organizations. Option 1: Ensure that at least 3 spaces included in the school are accessible to and available for shared use by the general public. (Auditorium, Gym, Cafeteria, Classroom).	AFB	Completed/Uploaded	Owner may still need to provide contracts for three organizations that use the spaces if the review team require more than the letter confirmation.

Yes  
Likely  
Less Likely  
No

6 4 0 1 Water Efficiency

D	1			Credit 1.1	<b>Water Efficient Landscaping, Reduce by 50%</b> Status/Comments: Requires irrigation water consumption reduced by 50%.	SWA	Completed/Uploaded	No permanent irrigation within LEED Boundary
D	1			Credit 1.2	<b>Water Efficient Landscaping, No Potable Use or No Irrigation</b> Status/Comments: There will be no potable water use or permanent irrigation system.	SWA		
D			1	Credit 2	<b>Innovative Wastewater Technologies</b> Status/Comments: Opt. 1: Reduce potable water use for sewage conveyance 50%. Opt. 2: Treat 50% of wastewater to tertiary standards and infiltrate or use on site. Credit typically not targeted.	N/A		Credit not attempted.
D	1			Credit 3.1	<b>Water Use Reduction, 20% Reduction</b> Status/Comments: Employ strategies that use 20% less water than the water use baseline calculated for the building after meeting the Energy Policy Act of 1992 fixture performance requirements. Calculations are based on estimated occupant usage and shall include only the following fixtures: water closets, urinals, lavatory faucets, showers and kitchen sinks. Efficient faucets will typically meet the requirements of this credit.	SWA	Completed/Uploaded	Uploaded, earning 43.9% savings ALL NEW fixtures for 1.28 gpf toilets, 0.125 gpf urinals, 0.5 gpm lav faucets and 1.5 gpm showers.
D	1			Credit 3.2	<b>Water Use Reduction, 30% Reduction</b> Status/Comments: 30% reduction will require low flow toilets, urinals. SWA will calculate several options and combinations of efficient fixtures. Team can then determine the fixtures to use on the project based on water savings.	SWA	Completed/Uploaded	Same as 3.1
D	1			Credit 3.2	<b>Water Use Reduction, 40% Reduction</b> Status/Comments: Review for possibility.	SWA	Completed/Uploaded	Same as 3.1
D	1			Credit 4	<b>Process Water Use Reduction</b> Status/Comments: No garbage disposals allows, four process water uses and other requirements.	SWA	Completed/Uploaded	No disposals. Using low water steamers, spray valve, ware washer and clothes washer. No refrigeration will use once through cooling with potable water.

Yes  
Likely  
Less Likely  
No

6 2 1 8 Energy & Atmosphere

C				Prereq 1	<b>Fundamental Commissioning of the Building Energy Systems</b> Status/Comments: Will provide Commissioning requirements.	SES	TBD	
D				Prereq 2	<b>Minimum Energy Performance</b> Status/Comments: Project will meet and likely exceed ASHRAE 90.1-2004. Compliance determined through energy modeling Optimize Energy Performance Credit below.	SWA	Completed/Uploaded	
D				Prereq 3	<b>Fundamental Refrigerant Management</b> Status/Comments: Use no CFC based-refrigerants (or phase out current use).	DTC	Completed/Uploaded	Narrative has been revised
D				Credit 1	<b>Optimize Energy Performance (2 pt minimum)</b> Status/Comments: 14% or 7% required as minimum. Modeling to determine choices and savings.	SWA	Completed/Uploaded	Modeling incorporates CIR blending New Building with Existing Renovation. Current model 18.1%
	2				7.4% Combination New Building & Existing Building Renovations	SWA		10% Initial
	1				10.9% Combination New Building & Existing Building Renovations	SWA		See above
	1				14.4% Combination New Building & Existing Building Renovations	SWA		See above
	1				17.9% Combination New Building & Existing Building Renovations	SWA		See above
			1		21.4% Combination New Building & Existing Building Renovations			Blended % will be calculated if required
			1		31.5% New Buildings or 24.5% Existing Building Renovations			Blended % will be calculated if required
			1		35% New Buildings or 28% Existing Building Renovations			Blended % will be calculated if required
			1		38.5% New Buildings or 31.5% Existing Building Renovations			Blended % will be calculated if required
			1		42% New Buildings or 35% Existing Building Renovations			Blended % will be calculated if required
D				Credit 2	<b>On-Site Renewable Energy</b> Status/Comments: PV, wind or other on-site.			DTC has proposed installing a Solar PV system for the school that will provide 2.5% of the building electric load. School Board decision is pending
					<b>2.5% Renewable Energy</b>	N/A		
					<b>7.5% Renewable Energy</b>	N/A		Credit not attempted

				1		<b>12.5% Renewable Energy</b>	N/A		Credit not attempted.
C	1				Credit 3	<b>Enhanced Commissioning</b> Status/Comments: Begin process in DD and provide follow up after construction.	SES	TBD	
D		1			Credit 4	<b>Enhanced Refrigerant Management</b> Status/Comments: Opt. 1 Do not use refrigerants. OR Opt. 2 Select refrigerants and HVAC&R that minimize or eliminate the emission of compounds that contribute to ozone depletion and global warming.	SWA	Completed/Uploaded	
C				1	Credit 5	<b>Measurement &amp; Verification</b> Status/Comments: Implement a M+V Plan in accordance with IPMVP Volume III: Concepts and Options for Determining Energy Savings in New Construction, April 2003. Need to determine how many additional monitoring points will be required to assign a cost to this credit.	N/A		Credit will not be targeted as a result of team discussion 12/8/09. Too expensive.
C		1			Credit 6	<b>Green Power</b> Status/Comments: Provide 35% of the building's electricity from renewable sources. Project can elect to pursue this credit late in the schedule if necessary or desired.	AFB	TBD	Will confirm if targeted credit at later date.

Yes Likely Less Likely No  
2 5 2 4

**Materials & Resources**

D					Prereq 1	<b>Storage &amp; Collection of Recyclables</b> Status/Comments: This requires space on drawings be identified for the storage and collection of paper, plastic, glass, metal and corrugated cardboard recyclables.	AFB	Completed/Uploaded	Uploaded
C		1			Credit 1.1	<b>Building Reuse, Maintain 75% of Existing Walls, Floors &amp; Roof</b> Status/Comments: Applies to building structure and envelop (excluding windows).	JCJ	TBD	
C				1	Credit 1.2	<b>Building Reuse, Maintain 95% of Existing Walls, Floors &amp; Roof</b> Status/Comments: Applies to building structure and envelop (excluding windows).	JCJ	TBD	
C			1		Credit 1.3	<b>Building Reuse, Maintain 50% of Interior Non-Structural Elements</b> Status/Comments: Includes interior walls, doors, floor coverings and ceiling systems.	JCJ	TBD	
C	1				Credit 2.1	<b>Construction Waste Management, Divert 50% from Disposal</b> Status/Comments: Recycle at least 50% of non-hazardous construction waste. Waste can be sorted off site. Exclude soil and land-clearing debris.	O&G	TBD	Exemplary Performance at 95%
C		1			Credit 2.2	<b>Construction Waste Management, Divert 75% from Disposal</b> Status/Comments: Won't know till the project is complete but it has been achieved in other projects.	O&G	TBD	Exemplary Performance at 95%
C				1	Credit 3.1	<b>Materials Reuse, 5%</b> Status/Comments: Use salvaged, refurbished or reused materials for 5% of cost.	N/A		Credit not attempted.
C				1	Credit 3.2	<b>Materials Reuse, 10%</b> Status/Comments: As above. Use 15% for Exemplary Performance Credit.	N/A		Credit not attempted.
C	1				Credit 4.1	<b>Recycled Content, 10% (post-consumer + 1/2 pre-consumer)</b> Status/Comments: Based on cost. Recycled content of materials based on weight. SWA will develop a specification addenda and documentation requirements.	O&G	TBD	
C		1			Credit 4.2	<b>Recycled Content, 20% (post-consumer + 1/2 pre-consumer)</b> Status/Comments: See credit MR 4.1 above.	O&G	TBD	
C			1		Credit 5.1	<b>Regional Materials, 10% Extracted, Processed &amp; Manufactured Regionally</b> Status/Comments: Use building product extracted, harvested and manufactured within 500 miles. Based on material cost. Fractions of content are based on weight.	O&G	TBD	
C			1		Credit 5.2	<b>Regional Materials, 20% Extracted, Processed &amp; Manufactured Regionally</b> Status/Comments: As above. Use 40% for Exemplary Performance Credit.	O&G	TBD	
C				1	Credit 6	<b>Rapidly Renewable Materials 2.5 %</b> Status/Comments: Typical building product from harvested material (10 year old less) for 2.5% of total costs.	N/A	TBD	Credit not attempted.
C		1			Credit 7	<b>Certified Wood</b> Status/Comments: Use a min of 50% of FSC wood-based materials and products (permanently installed).	JC/O&G	TBD	

Yes Likely Less Likely No  
8 3 1 8

**Indoor Environmental Quality**

D					Prereq 1	<b>Minimum IAQ Performance</b> Status/Comments: Meet minimum requirements of ASHRAE 62.1-2004 (Sections 4 - 7) and approved Addenda (see ASHRAE 62-2001, Appendix H) using the Ventilation Rate Procedure.	DTC	Completed/Uploaded	DTC confirmed all documentation uploaded to LEED Online is up-to-date 9/17/10. Template is complete.
D					Prereq 2	<b>Environmental Tobacco Smoke (ETS) Control</b> Status/Comments: Smoking prohibited.	AFB	Completed/Uploaded	Completed
D					Prereq 3	<b>Minimum Acoustical Performance</b> Status/Comments: Two options to design classrooms and core learning spaces to meet Reverb. Time requirements of ANSI S12.60-2002.	JCJ	Completed/Uploaded	Acentech has completed LEED Online Template and provided documentation
D	1				Credit 1	<b>Outdoor Air Delivery Monitoring</b> Status/Comments: Provide permanent monitoring of CO2.	DTC	Completed/Uploaded	Referenced drawings M111-M120, M135-138, M601 have been uploaded to LEED Online
D	1				Credit 2	<b>Increased Ventilation</b> Status/Comments: Increase mechanical ventilation 30% over ASHRAE 62.1-2004 or demonstrate effective ventilation for naturally ventilated buildings.	DTC	Completed/Uploaded	DTC confirmed all documentation uploaded to LEED Online is up-to-date. Template is complete.
C	1				Credit 3.1	<b>Construction IAQ Management Plan, During Construction</b> Status/Comments: Implement IAQ plan per SMACNA Guidelines, protect absorptive materials from moisture and use MERV 8 filters during construction.	O&G	TBD	In progress: CMK has collected early photo documentation of IAQ compliance.
C			1		Credit 3.2	<b>Construction IAQ Management Plan, Before Occupancy</b> Status/Comments: Opt. 1 Flush out. Opt. 2 Air quality testing.	O&G	TBD	Feasibility of the Air Quality Testing option to be explored. (Makes the most sense when considering phased construction schedule)

C	3	1			Credit 4	<b>Low-Emitting Materials, (1-4 points)</b> Status/Comments: Up to 4 points are available. Five options for 1 point for each of Adhesives & Sealants, Paints & Coatings, Flooring Systems, Composite Wood & Agrifiber Products and Furniture & Furnishings.	JCJ/O&G	TBD	Targeting: Paints & Coatings, Composite Wood & Agrifiber, Furniture & Furnishings, Ceilings & Wall Systems (Budgeted VOC compliance path for Adhesives & Sealants possible)
D		1			Credit 5	<b>Indoor Chemical &amp; Pollutant Source Control</b> Status/Comments: Install permanent entryway systems, separate and exhaust point sources of air contaminants, and use MERV 13 filtration. Walls to underside of roof deck.	DTC/ JCJ/ AFB	Completed/ Uploaded	Completed/ Uploaded
D				1	Credit 6.1	<b>Controllability of Systems, Lighting</b> Status/Comments: FOR ADMIN AND OTHER REGULARLY OCCUPIED SPACES: Provide individual lighting controls for 90% (minimum) of the building occupants in workspaces to enable adjustments to suit individual task needs and preferences. FOR CLASSROOMS AND CORE LEARNING SPACES, with the exception of chemistry laboratories, art rooms, shops, music rooms, and dance/exercise studios. Provide a classroom lighting system that operates in two modes: general illumination and AV.			Will no longer comply with credit, the alternate bid was taken which do not include the increased lighting control requirements for classrooms. SG email 7/1
D				1	Credit 6.2	<b>Controllability of Systems, Thermal Comfort</b> Status/Comments: Provide individual comfort controls for 50% (minimum) of the building occupants in workspaces to enable adjustments to suit individual task needs and preferences.	DTC		Credit not feasible.
D	1				Credit 7.1	<b>Thermal Comfort, Design</b> Status/Comments: Design in accordance with ASHRAE 55-2004.	DTC	Completed/ Uploaded	
D	1				Credit 7.2	<b>Thermal Comfort, Verification</b> Status/Comments: Agree to implement a thermal comfort survey of building occupants (adults and students of grades 6 and above) within a period of six to 18 months after occupancy collecting anonymous responses about thermal comfort in the building including an assessment of overall satisfaction with thermal performance and identification of thermal comfort-related problems. Agree to develop a plan for corrective action if the survey results indicate that more than 20% of occupants are dissatisfied.	AFB		DEFER UNTIL CONSTRUCTION SWA has emailed template and sample documents to Owner to sign and approved.
D					Credit 8.1	<b>Daylight &amp; Views, Daylighting (1-3 points)</b> Status/Comments: Through one of the three optional methodologies, achieve daylighting through one of the three options: <b>75% of classrooms (required for either points below)</b> <b>90% of classrooms</b> <b>75% of other spaces</b>	SWA/JCJ		Current design will not comply with LEED credit requirements: Too many interior spaces without windows.
				1			SWA/JCJ		
				1			SWA/JCJ		
				1			SWA/JCJ		
D				1	Credit 8.2	<b>Daylight &amp; Views, Views for 90% of Spaces</b> Status/Comments: Achieve direct line of sight to the outdoor environment via vision glazing between 2'6" and 7'6" above finish floor for building occupants in 90% of all regularly occupied areas	SWA/JCJ		Current design will not comply with LEED credit requirements. Too many interior spaces without windows.
D				2	Credit 9	<b>Enhanced Acoustical Performance (1-2 points)</b> Status/Comments: Design classrooms and other core learning spaces to meet the Reverberation Time (RT) requirements of ANSI Standard S12.60-2002, Acoustical Performance Criteria, Design Requirements and Guidelines for Schools. Also design classrooms and other core learning spaces to meet the Sound Transmission Class (STC) requirements, excepting windows, which must meet an STC rating of at least 40 or 35. USGBC recently added compliance paths for acoustics.	JCJ		Acantech/JCJ to complete LEED Online Template. According to Acantech's calculations, the project will not meet the requirements for this credit. 12/15/10
D		1			Credit 10	<b>Mold Prevention</b> Status/Comments: Achieve credits EQ credit 3.1, 7.1 and 7.2, provide HVAC systems and controls designed to limit space relative humidity to 60% or less during all load conditions (both occupied and unoccupied), and develop and implement on an ongoing basis an IAQ management program for buildings based on an EPA document.	DTC/AFB	10/20/2010	DEFER UNTIL CONSTRUCTION DTC has provided narrative SWA to provide IAQ Management statement for AFB to obtain owner approval.

Yes	Likely	Less Likely	No	2 2 2 0 Innovation & Design Process				
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D	1				Credit 1.1	<b>Innovation in Design: Option: Green Housekeeping/Cleaning</b> Status/Comments: Develop and implement a policy for janitorial equipment use that reduces building contaminants with minimum environmental impact.	SWA/AFB	Completed/ Uploaded	Completed
C			1		Credit 1.2	<b>Innovation in Design: Green Power - Exemplary Performance</b> Status/Comments: Provide 70% of the building's electricity from renewable sources for 2 years (or 35% over 4 years)	SWA/AFB	TBD	DEFER UNTIL CONSTRUCTION Will confirm if targeting credit at later date.
C		1			Credit 1.3	<b>Innovation in Design: Construction Waste Management - Exemp Perf.</b> Status/Comments: Must have a total of 95% or more waste diverted from landfill.	O&G	TBD	DEFER UNTIL CONSTRUCTION
C			1		Credit 1.4	<b>Innovation in Design:</b> Status/Comments:		TBD	DEFER UNTIL CONSTRUCTION
C	1				Credit 2	<b>LEED Accredited Professional</b> At least one principal participant of the project team shall be a LEED Accredited Professional (AP).	ALL	Completed/ Uploaded	Uploaded: Other active team members with LEED AP encouraged to submit certificates
D					Credit 3	<b>The School as a Teaching Tool</b> Integrate the sustainable features of a school facility with school's educational mission. Design curriculum based on high performance features of the building, and commit to implementing the curriculum within 10 months of LEED certification. The curriculum should not just describe the features themselves but explore the relationship between human ecology, natural ecology and this building's ecology. Curriculum must meet local or state curriculum standards, be approved by school administrators, & provide 10 or more hrs of classroom instruction per year per full-time student.	AFB	10/20/2010	DEFER UNTIL CONSTRUCTION SWA has provided School As a Teaching Tool Guidelines to Owner to aid district development.

Yes	Likely	Less Likely	No	30 12 7 30 Project Totals (pre-certification estimates) 79 Points				
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Certified 29-36 points Silver 37-43 points Gold 44-57 points Platinum 58-70 points