

## SAD # 46 Concept Design Meeting Notes

An Electrical & Technology Systems Committee Meeting was held on May 15<sup>th</sup>, 2007.

Attending:

Rick Bilodeau Jr.	Facilitator- School Board, Mid Maine Communication,
David Fournier	SAD 46 Tech
Pete Mealey	Citizen
Art Roy	Chief of Police
Leah Tondreau	Teacher
Kristin Briggs	Teacher
Mike McCormick	Citizen
Julie Richards	MS Principal
Gary Smith	Computer Teacher
Dave Gudroe	Maintenance
Gary Crane	

Larry Bartlett	Bartlett Design, Bath
Joe Hemes	SBA

Not present: Terry Staples, Steven Crane, Rory Sanders.

1. **Agenda** was distributed with meeting notes from 9/20/06.
2. **Design Development Phase's goal** is to locate and understand in detail the electrical and technology systems that SAD 46 would like to have in the new school. Meetings will be required approximately every 2-3 weeks for the next two months.
3. **Larry Bartlett** reviewed a matrix to document every type of electrical or data item in each room and will have drawings as well to convey location. He reviewed the Technology agenda items as follows:
4. **Structured Cable System**  
Infrastructure for the systems is the most important and cost beneficial to install during construction. The project should be prepared for both wireless and hard wired systems using Cat 6. Time/Warner Cable, Fiber, phone & video will be in the school with CAT 6, coaxial (RG-6 & 11) and Fiberoptic cable (multi-mode - 12 strand). Racks for patchpanels will be in 4 locations, 3 data Hub closets and the server room near the library. Data cabling will be organized along one side of the corridors for accessibility.
5. **Educational Systems**  
Wireless capability in all areas of the school is required.  
Smartboards should be planned for all classrooms, with hopes of purchasing at least half of required number.  
Laptop charging areas needs to be located.
6. **Video Distribution System**  
This system will be using a multi-media head end so any teacher can access video or TV needs from a computer in the classroom. The server room near the library and adjacent to Dave's District Computer office.

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7. **Phone and Intercom System** is recommended to be integrated with both phone handsets and speakers in the classroom. The phone system will have back-up battery system for communication during power outages. The location of phones should be at near teacher's desks and not on the wall by the door. Zones for announcements may include: whole school, elementary school, middle school, media center, and community wing. The number of phone lines will need to be determined, but dedicated lines for Fire alarm, security, HVAC and fax may be considered.
8. **Local Sound Systems** to include a system for the Gym, Cafeteria/stage, Music & Wellness. Wireless microphones for speakers should be provided. Gathering areas and main lobby and gym lobby should consider flat screen TV for announcements.
9. **Door Access Control System** electric door locks should be used for exterior doors and perhaps several interior doors should be the same as the HS system (Carrie?). All doors into the building except for the front will be locked. Quick lock down of school will be required.
10. **Security System** will probably be a combination of surveillance cameras on both exterior and major interior corridors with analog cameras and digital recording. Monitor in office was discussed. Motion sensors were discussed.
11. **Day-Lighting controls** will be used to obtain a Maine Energy Efficient Schools Grant and classroom luminaries will be turned on with automatic lighting controls and manual overrides, and turned off with infrared/motion sensors to save energy.

Site lights will be full cut off to avoid light escaping off site and located only where needed for safety.

Gym fluorescent lighting will be quick on/off and zoned for different levels of light.

A programmable school marquee at entrance was discussed.

12. **Next meeting:** will include rough layouts of data system and discussion on Electrical Systems.