

**PLAINVILLE BOARD OF EDUCATION
Special Meeting Minutes
FACILITIES SUBCOMMITTEE**

Special Meeting Title

6:00 PM

---Discussion: Needed Repairs at the Middle School of Plainville
as referenced on 2019-2020 Capital Plan
---Tour of Middle School of Plainville Auditorium
---Other

Date: Tuesday, December 4, 2018

Place: Middle School of Plainville Conference Room
150 Northwest Drive
Plainville, CT

Attendees: Subcommittee Chair Becky Tyrrell, Nicole Palmieri, Deborah Hardy, ex-officio

Also Present: Maureen Brummett, Ed.D., Superintendent of Schools and Sam Atty. Jessica Ritter, Shipman and Goodwin
Sam Adlerstein, Director of Business and Operations
Crystal St. Lawrence, Board Member
Foster White, Board Member (7:00 PM)
Todd Helming, MSP Teacher

Absent: Laurie Peterson, Subcommittee member

The Facilities Subcommittee meeting was called to order by Subcommittee Chair Becky Tyrrell at 6:05PM.

The Facilities subcommittee discussed needed repairs at the Middle School of Plainville and the Auditorium Lighting Plan. The subcommittee toured the building where the repairs are needed.

A MOTION WAS MADE BY NICOLE PALMIERI TO ADJOURN THE MEETING. DEBORAH HARDY SECONDED THE MOTION. THE MOTION PASSED UNANIMOUSLY.

The meeting was adjourned at approximately 7:05 PM.

Respectfully submitted,


Maureen Brummett, Ed.D.
Recorder of Minutes

Board/Min special meeting 12/4/18

Auditorium Lighting & Rigging Plan Updated December 2018

CHIEF ENGINEER

YELLOW = NEXT STEP/IN PROGRESS

Auditorium Lighting Plan

Apx \$75,000

This four phase plan will improve energy savings, efficiencies, usability, and safety of the lighting system in the MSP auditorium. The system in place is more than 25 years old and some of the lights and wiring are about 40+ years old. Our stage lighting system is not functional for most events. Theater lighting is no longer an option and lighting the stage for a basic concert is now a challenge and sometimes impossible. If implemented, this plan will create the most energy efficient design that will provide our performance groups with improved capabilities, improve the experiences of our audiences, support community use and events at MSP, and provide a modern experience for our technical theater club to learn about the technologies surrounding stage lighting.

PHASE 1 - LED LIGHTS - 2019

LED LIGHTS

LED LIGHTS - 2019
LED LIGHTS - 2019
LED LIGHTS - 2019
LED LIGHTS - 2019
LED LIGHTS - 2019
LED LIGHTS - 2019
LED LIGHTS - 2019

LED LIGHTS - 2019

LED LIGHTS	LED LIGHTS	LED LIGHTS
LED LIGHTS	LED LIGHTS	LED LIGHTS
LED LIGHTS	LED LIGHTS	LED LIGHTS
LED LIGHTS	LED LIGHTS	LED LIGHTS

Phase 2 - NEXT STEP 2019

(Apx \$13,000)

The house lights (for the audience to enter and exit) have been upgraded to LED bulbs, but the system controlling them is over 25 years old. The controllers are beginning to break down and make the entire system unusable - they are past their life expectancy. The controllers are not

repairable and the technology is no longer available for purchase. The only option is to replace this system. The new system will provide programmable switches for guests to use stage lights without having to access the main lighting controls. This is how PHS operates and would help protect the \$10,000+ of gear in the lighting booth from MSP guests accidentally damaging or mis programming the controls.

Item:	Unit Cost	Quantity	Total Cost
ETC HOUSE LIGHT CONTROL SYSTEM	\$13,000	1	\$13,000 (2016 Quote)

Phase 3 (Apx \$24,000)

The lights over the stage are the oldest stage lights in the district. They use over 15,000 watts and are not sufficient to light the stage correctly for the events in the space. They have caused students to collapse on stage due to heat and have created a blue haze on the central part of the stage. Bulb life is short (40-50 hours) and expensive (\$40 per bulb) and the lights have no flexibility for color, shape, or other controls. These lights were salvaged from the junk pile when the PHS stage was rebuilt about 10 years ago - they were old then and are older now.

Item:	Unit Cost	Quantity	Total Cost
CONSULTANT NEEDED FOR DESIGN	\$0	1	\$0

THIS NEXT SECTION IS APX - the actual numbers will be based on consult and design

Color Fill Lights	\$800	4	\$3,200
Color Fill Lights	\$800	6	\$4,800
Cyc Lights	\$1000	4	\$4,000
Spots	\$1300	6	\$7,800
Foot Fill	\$1000	4	\$4,000

Phase 4 (Apx \$20,000)

The rigging system installed when the school was built was not designed well for a stage and does not meet current safety codes. This system's safety is the most critical physical structure on the stage and is in need of updating. The theater consultants recommended installing a pipe grid system - similar to a black box theater - which would be secured to the WALLS and provide ultimate flexibility and safety. The cost is a projection - we don't have a solid estimate yet.

Item:	Unit Cost	Quantity	Total Cost
HANGING GRID - over the stage	\$15k-\$25k	1	TBD

Phase 2 Specifics

The current system

- This phase replaces the control system for the house lights in the MSP auditorium
- The current system is 25+ years old and past its life expectancy & beginning to fail
 - The control's show signs of significant deterioration (Flickers during Fade)
 - The control's only bring lights to 80% brightness (failure in the system)
 - The system is analog and dated - its technology is not repairable

The control system will likely fail one of two ways

- The full brightness will continue to decrease as the system erodes
- One of the control boxes will fail
 - In this case the lights could get stuck in the on or off position
 - The lights could instantly cut out and stop working when in use
- **BOTH SCENARIOS ARE SIGNIFICANT SAFETY CONCERNS**

What history has showed us

- The auditorium chairs were failing (welds were failing and the seats falling down)
- The facilities department kept re-welding the chairs to repair them
- Mr. Guarino included the chair replacement as a capital expense request for apx. 8 years -- it was cut from the budget each year
- During a concert a chair collapsed and an elderly man got his foot/leg caught and was slightly injured
- There was potential for a significant lawsuit (I don't have details how it was resolved)
- The auditorium was closed for apx. 6 months while emergency funding was allocated to repair the problem - other planned improvements had to be delayed

If the system were to fail, what could happen

- If the system failed when the auditorium was in use, the emergency lights would not engage and the entire audience would be left in the complete dark. There would be no way to turn lights on for them to find their way out of the room
- The auditorium would be closed for 6-12 months for repairs (finding money, getting allocations approved, bidding, securing a contractor, ordering materials, installing, testing and training, etc)

The impacts of a closed auditorium

- All use of the room needs to be rescheduled or cancelled
- The room is used daily for grade 6 students entering the school
- The room is used daily for band lessons and other band functions
- The room is used monthly for a variety of meetings (DATTCO, etc)
- The room is used multiple times per week for a variety of club meetings (Drama club, Musical Theater, Technical Theater, etc)

- The room is used by grade levels for a variety of assemblies - there are multiple events every month
- All musical concerts would be shifted to the PHS auditorium
- Additional bussing costs would be incurred for students to rehearse during the school day
- All community groups using the space would be cancelled - the space is used by other PCS schools (Toffolon) private schools, private teachers, Plainville Youth Services, Plainville Youth Theater, Plainville Choral Society. It is sometimes used for dance recitals, fundraisers, and meetings as well.

In addition to significant community and educational impacts, there are financial considerations

- The new system is programmable and would allow us to limit public access to (and protect) over \$100,000 worth of equipment
- The new system is easier to operate and would prevent lights from being left on for days
- Performing this upgrade on our terms/timeline will afford us time to ensure we have the best vendor and price
- The control system will improve energy efficiency and reduce electrical usage
- Delaying an upgrade will increase replacement costs (materials, labor)
- There is a potential financial liability if someone is injured when the system fails
- There are no fiscal incentives to delay this necessary repair

Capital Plan Update 12/4/18

- BOE Committee



Capital Plan: Current Status

Timeframe	Date	Facility	Technology	Total
2017-2018:				
Initial Proposal	12/11/17	116,318	224,900	341,218
BOE Approved	1/3/18	28,535	224,900	253,435
Town Manager Recommended	3/1/18	0	224,900	224,900
Town Approved	4/24/18	0	224,900	224,900
2018-2019:				
Initial Proposal	11/6-7/2018	436,500	372,385	808,885
Supintendent Adjustments	11/12/18	243,000	317,450	560,450
BOE Approved	12/10/18			
Town Manager Recommended				
Town Approved				

Draft Technology Capital Proposal

Computer Group	priority	Number	Est. Unit Cost	Cost	In Service Date	Replacement Date	Age Years	Age Months	Budget review comments
2019-20									
PHS Displays Part 2	1	35	\$2,500.00	\$87,500.00	7/1/2008	7/1/2019	11	0	Priority and 1/2 way through the project
Chromebooks Grades 6,9,10	1	600	\$225.00	\$135,000.00	7/1/2015	7/1/2019	4	0	Priority. Rotational plan, required investment
Chromebook cases		400	\$25.00	\$10,000.00					12/3: To add ChromeBook cases to the capital plan is another \$6000 for 400 cases.
PHS 112 Com Lab	3	25	\$1,500.00	\$75000	7/1/2013	7/1/2019	6	0	11,30,18 remove. too many question marks at this point. Adult ed grant for 50%? Develop a plan that serves tech, adult ed. Todd Helming old equip. Next: Jili budget discussion
Office Desktop Linden, MSP	2	12	\$1,000.00	\$12,000.00	7/1/2012	7/1/2019	7	0	part of replacement cycle and there is further use for these elsewhere
Maker Space / STEAM Hardware	1,5	1	\$24,000.00	\$35,500.00	7/1/2008	7/1/2019	11	0	11/26: Msp steam lab expenses 3450 add \$4550k
Technicians Laptops	1	5	\$1,200.00	\$6,000.00	7/1/2014	7/1/2019	5	0	Add \$750 from acct 3361 add \$3000 mspn computer from account 4180, add \$3200 for lighting plan from account 3560. Total \$11,500.
Security Camera Server	2	1	\$10,000.00	\$10,000.00	7/1/2012	7/1/2019	7	0	Potentially from security grant
Kindergarten iPads	2	55	\$429.00	\$23,595.00	7/2/2012	7/2/2019	7	0	each K class gets 5 new ipads Kevin confirmed not in renovation budget for wheeler. Potential for 6k to project, not reimbursable by state
Less wheeler Kindergarten ipads to project		15	\$429.00	\$6,435.00					
Special ED iPads	1	10	\$429.00	\$4,290.00	7/3/2012	7/3/2019	7	0	
2019-20 Total				\$317,450.00					297k if 10k cameras to project

Draft Technology Capital Proposal

Computer Group	priority	Number	Est. Unit Cost	Cost	In Service Date	Replacement Date	Age Years
2019-20							
PHS Displays Part 2	1	35	\$2,500.00	\$87,500.00	7/1/2008	7/1/2019	11
Chromabooks Grades 6,9,10	1	600	\$225.00	\$135,000.00	7/1/2015	7/1/2019	4
Chromabook cases		400	\$25.00	\$10,000.00			
PHS 112 Com Lab	3	25	\$1,500.00	\$37,500.00	7/1/2013	7/1/2019	6
Office Desktop Linden, MSP	2	12	\$1,000.00	\$12,000.00	7/1/2012	7/1/2019	7
Maker Space / STEAM Hardware	1.5	1	\$24,000.00	\$24,000.00	7/1/2008	7/1/2019	11
Technicians Laptops	1	5	\$1,200.00	\$6,000.00	7/1/2014	7/1/2019	5
Security Camera Server	2	1	\$10,000.00	\$10,000.00	7/1/2012	7/1/2019	7
Kindergarten iPads	2	55	\$429.00	\$23,595.00	7/2/2012	7/2/2019	7
Less wheeler Kindergarten iPads to project		15	\$429.00	\$6,435.00			
Special ED iPads	1	10	\$429.00	\$4,290.00	7/3/2012	7/3/2019	7
2020-21				\$37,450.00			
Tuition Displays	31	\$2,500.00	\$77,500.00	12/4/2008	7/1/2020	11	
Chromabooks Grades 6,9, Elem	525	\$235.00	\$118,125.00	7/1/2016	7/1/2020	4	
New SAN- Server, BOE and Town	1	1	\$80,000.00	\$80,000.00	7/1/2015	7/1/2020	5
PHS Teacher Laptops	70	\$1,100.00	\$77,000.00	2/12/2014	7/1/2020	6	
PHS 126 CAD Lab	25	\$1,500.00	\$37,500.00	7/1/2014	7/1/2020	6	
2020-21 Total:				\$390,125.00			
2021-22							
Firewall replacement	2	\$20,000.00	\$40,000.00	7/1/2014	7/1/2021	7	
MSP 507 Music Lab	22	\$1,100.00	\$24,200.00	7/1/2018	7/1/2021	8	
Chromabooks Grades 6,9, Elem	550	\$225.00	\$123,750.00	7/1/2018	7/1/2021	3	
Tuition Teacher Laptops	40	\$1,100.00	\$44,000.00	7/1/2014	7/1/2021	7	
MSP 515 Lab	18	\$1,100.00	\$19,800.00	7/1/11	7/1/2021	10	
Office Desktops CO, PHS, TOF	25	\$1,000.00	\$25,000.00	7/1/16	7/2/2021	5	
2021-22 Total:				\$276,750.00			
2022-23							
Server Replacement	4	\$10,000.00	\$40,000.00	7/1/2017	7/1/2022	5	
Linden Staff Laptops	45	\$1,100.00	\$49,500.00	7/1/2016	7/1/2022	6	
Chromabooks Grades 6,9, Elem	550	\$225.00	\$123,750.00	7/1/2019	7/1/2022	3	
Linden Displays	35	\$2,500.00	\$87,500.00	7/1/2015	7/1/2022	7	
2022-23 Total:				\$0.00	7/1/2021	121	
2023-24							
Chromabooks Grades 6,9, Elem	550	\$225.00	\$123,750.00	7/1/2020	7/1/2023	3	
MSP Staff Laptops	90	\$1,100.00	\$99,000.00	7/1/2017	7/1/2023	6	
2023-24 Total:				\$178,750.00			

Maker Space / STEAM labs

description	Amount	BGE account removed from	Budget details
Maker Space / STEAM Hardware	24,000.00		
Msp steam lab expenses	4,550.00	3340	cap \$800.00 - Vex parts cap \$600 - Replacement Rep+ parts (7 Gr) cap \$650 - Cheney - replacement parts for Arduino kits (8 gr) cap \$2500 - Makey Makey
Steam lab equipment	750.00	3361	Steam lab equipment (ex. drills) beyond useful life
mspn computer	3,000.00	4180	https://drive.google.com/drive/folders/0BxessnlCx5ezd0ktSh3
add \$3200 for lighting plan from account 3560.	3,200.00	3560	We need to replace 5 djembe drums that have worn out (\$100 each, \$500 total). In addition we are continuing to upgrade technology/lights/etc. Specifically, our goal next year will be replacing 12 lights on the stage that draw 6,000 watts and are apx. 40 years old with new LED lights that draw 360 watts and never need bulb replacements. This is the third phase of upgrading the stage lights and directly supports the chorus, tech theater club, drama club, and all groups using the auditorium.
Total	35,500.00		

Security Grant Application

	Amount	%
Capital	12,710	5.24%
Spent prior years	64,431	
Town Match	77,141	31.79%
State grant	165,516	68.21%
Total Project	242,657	

	PHS	Linden	MSP	Toffolon	Wheeler	Grand Total
Access Control	1,725	1,725	3,705	2,725	1,725	11,605
Cameras (Surveillance)	31,669	12,288	4,902	12,877	1,765	63,501
Doors, Locks	4,541	7,747	5,140			17,428
Other			10,350			10,350
Penetration Resistant Vestibule	77,720	14,312				92,032
Real Time Interoperable Communications	5,537	6,101	4,442	4,545	7,541	28,165
Windows (Ballistic Glass and Window Film)	8,410	3,480	4,205	3,480		19,575
Grand Total	129,602	45,653	32,744	23,626	11,031	242,657

Draft Facilities Capital Proposal

PROJECT		FY 2018-2	FY 2020-2	FY 2021-2	FY 2022-2
Linden	Upgrade Building Automation System		50,000		
T3	Landscaping Improvements - convert to hardscape				
T1	Rebuild / replace Solar Inverter	27,000			
T2	Reconfigure chilled water piping (primary - secondary loops)	9,500			
T3	PHS				
H1	Repaint Smoke Stack or Wrap in metal.		95,000		
H2	Add partition doors in Tech-Ed hallway				
H3	Snow Guards / Kegel Gym Roof		86,000		
H4	Build Team Room / Field House		200,000		
H5	Rebuild/Replace Solar Inverter		15,000		
H6	Replace Emergency Generator			300,000	
H7	Repaint Exterior of 54 section	50,000	50,000		
H8	Replace/Upgrade Boilers to high eff. Condensing boilers (2000)		400,000		
H9	Upgrade/Replace Building Automation System		100,000		
H10	Update Head-end A/Cs with two larger units				
H11	Automate Field Lighting	13,500			
H12	Design a Secure Entrance	25,000			
H13	Build a Secure Entrance	50,000			
MSP					
M1	Remove UST		20,000		55,000
M2	Refinish both gym floors				50,000
M3	Fume hood replacement				100,000
M4	Replace all student lockers				60,000
M5	Re-key building to match District Standard and upgrade hardware				150,000
M6	Replace all carpeting				130,000
M7	Create a Secure Entrance from outside to the Office				13,000
M8	Update Auditorium House Lighting Controls				90,000
M9	Middle School Cooling Tower				436,000
M10	Upgrade/Replace Chillers at MSP				15,000
M11	Install Automatic Isolation Valves for Chillers				935,000
M12	Additional HVAC Upgrades(Limited)				770,000
M13	Update Roof Top Air Handlers				1,872,000
M14	Re-Roof MSP				800,000
M15	Resurface parking lots and roadway				75,000
M16	Replace Emergency Generator				35,000
M17	Upgrade Main Gym Bleachers for Accessibility				
District					
D1	Purchase of additional cleaning equipment and replace aging places	15,000			
D2	Security Improvements (Additional Cameras and Access Improvements)	25,000			25,000
D3	Parking lot, sidewalk, and storm drain maintenance - Toffolon, Linden		20,000		
D4	Service Vehicle Replacement (2006 Chevy Express)		28,000		
D5	Service Vehicle Replacement (2005 Ford E-250)				30,000
D6	Landscaping Improvements for Maintenance		15,000		15,000
Total		\$243,000	\$591,000	\$650,000	\$5,656,000

Putting off MSP for Renovate Like New

	PROJECT	FY 2022-23
M2	Refinish both gym floors	55,000
M3	Fume hood replacement	50,000
M4	Replace all student lockers	100,000
M5	Re-key building to match District Standard and upgrade hardware	60,000
M6	Replace all carpeting	150,000
M7	Create a Secure Entrance from outside to the Office	130,000
M8	Update Auditorium House Lighting Controls	13,000
M9	Middle School Cooling Tower	90,000
M10	Upgrade/Replace Chillers at MSP	436,000
M11	Install Automatic Isolation Valves for Chillers	15,000
M12	Additional HVAC Upgrades(Limited)	935,000
M13	Update Roof Top Air Handlers	770,000
M14	Re-Roof MSP	1,872,000
M15	Resurface parking lots and roadway	800,000
M16	Replace Emergency Generator	75,000
M17	Upgrade Main Gym Bleachers for Accessibility	35,000
	Total	\$5,586,000

We are taking care of MSP urgent needs and the rest putting off.

Questionable whether we can hold off on all of the needs until 22-23 (and hopefully not much later)