# Life Safety Survey Results

# Physical Facility Assessments



Prepared by:

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#### 10-Year Life Safety Survey

Every 10 years, each local board is required to survey its school buildings\* and effectuate any recommendations in accordance with 2-3.12, the Health Life Safety Code.

#### Physical Facilities Assessment

In 2013, Healy Bender Architects prepared an analysis of the District's facilities in terms of age, design, construction methods and materials with recommendations to improve the physical condition of each facility.

#### **Summary of Estimates**

	20	13 Life Safety Survey	2013 Physical Facilities Assessment	Grand Total
Balmoral Elementary School	\$	155,600	\$ 8,561,760	\$ 8,717,360
Crete Elementary School	\$	4,021,700	\$ 8,122,800	\$ 12,144,500
CSK Magnet School	\$	1,204,700	\$ 6,159,240	\$ 7,363,940
Early Learning Center	\$	2,637,500	\$ 5,429,040	\$ 8,066,540
Monee Education Center	\$	568,900	\$ 2,886,000	\$ 3,454,900
Talala Elementary School	\$	1,405,300	\$ 4,934,640	\$ 6,339,940
	\$	9,993,700	\$ 36,093,480	\$ 46,087,180

Crete-Monee Middle School Sixth Grade Center & Dome	\$ Survey 10,300 3,051,000	\$ Assessment 3,190,900 38,515,920	\$ 3,201,200 41,566,920
sixui didde center a some	\$ 3,061,300	\$ 41,706,820	\$ 44,768,120

All Facilities	\$ 13,055,000	Assessment <b>\$</b> 77,800,300	\$ 90,855,300
	2013 Life Safety Survey	Facilities	Grand Total

<sup>\* &</sup>quot;School Building" or "School" means a building occupied in whole or in part by public school students or intended for occupancy by such students.

BALMORAL ELEMENTARY SCHOOL		
2013 LIFE SAFETY SURVEY		
Provide hollow metal doors and frames with insulated glazing where existing, also provide all hardware for a complete and code	\$ 34,700	
compliant exterior exit.  Provide wood and hollow metal doors in hollow metal frames with 1/4" tempered glazing and sidelights where existing.	\$ 17,300	
Provide a ceiling transfer air plenum in the corridor and transfer classroom relief air into the new plenum.	\$ 75,100	
Provide a new panel directory.	\$ -	
Provide additional receptacles to eliminate need for extension cords.	\$ -	
Move items away from panel to provide proper working clearance.  Provide panel cover modifications and filler plates as required to conceal bussing and wiring	\$ -	
Provide smoke detector above fire alarm control panel	\$ 300	
Provide junction box cover	\$ -	
Provide additional receptacles to eliminate extension cord use.	\$ -	
Provide a new panel directory	\$ -	
SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS	\$ 129,700	
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES	\$ 25,900	
TOTAL LIFE SAFETY COSTS	\$ 155,600	
2013 PHYSICAL FACILITIES ASSESSMENT		
SITE Replace bituminous paving at parking lots.	\$ 317,600	
Subtotal Site Costs	\$ 317,600	
ROOF		
Replace damaged gutters along the North and West facades.	\$ 8,400	
Scrape and repaint all exterior exposed wood roof structure, fascias and trim.  Subtotal Roof Costs	\$ 28,900	
Enhancements	\$ 37,300	
Subtotal Roof Enhancement Costs	\$	
BUILDING ENVELOPE  Repair and clean damaged face brick and tuck point all mortar joints	\$ 704,600	
Scrape and repaint rusting lintels.	\$ 2,300	
Replace existing exterior windows	\$ 750,800	
Exterior Doors (from LSS)	\$ 34,700	
Subtotal Ruilding Envelope Costs		
Subtotal Building Envelope Costs	\$ 1,492,400	
BUILDING INTERIOR	,,,,,	
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BUILDING INTERIOR  Replace water stained, cracked, damaged, and discolored acoustical ceiling tiles throughout the facility.  Replace water stained, cracked and damaged CMU throughout the facility.  Replace VCT and rubber base in Classrooms, Corridors and Multi-Purpose Room. A nominal cost to remove the existing VCT is included, however due to the fact that VAT is installed below the existing VCT in many locations, an exact cost to abate the VAT is to be determined by the District's environmental consultant.  Clean and Repaint restroom walls  Interior doors and frames and hardware  Wired glass  Subtotal Building Interior Costs  Enhancements  Replace ceramic tile floors in toilet rooms.  Replace carpet at Entry Vestibules and Classrooms 16-21.  Replace carpet and Entry Vestibules and Classrooms 16-21.  Replace and damaged quarry tile in Cafeteria Serving area.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System  Expand the existing central plant DDC controls to provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Chiller DDC controls are not included.  Provide new energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency.  Provide supplemental air conditioning in the MDF Room.  Subtotal HVAC System Costs  Enhancements  Provide ew packaged gas heating and D.X. cooling roof top unit to provide ventilation, air conditioning and outside air serving the main office to meet today's standards for indoor air quality and code required outside air.  Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the gymnasium area.  Provide ewe mand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.	\$ 8,400 \$ 5,800 \$ 173,300 \$ 10,500 \$ 17,300 \$ 267,800 \$ 267,800 \$ 17,300 \$ 127,000 \$ 440,000 \$ 409,500 \$ 462,000	*Chiller DDC controls are only required if HVAC System Enhancement item #2 is selected. The cost for chiller DDC controls is included in the scope of work for HVAC System Enhancement item #2.  *See HVAC System Item #1 for building DDC controls cost estimate. See HVAC System Enhancement Item #6 for unit ventilators and heating/cooling piping description and cost estimate.
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Replace water stained, cracked, damaged, and discolored acoustical ceiling tiles throughout the facility.  Repair and repaint cracked and damaged CMU throughout the facility.  Repair and repaint cracked and damaged CMU throughout the facility.  Repair and repaint cracked and damaged CMU throughout the facility.  Repair and repaint cracked and damaged CMU throughout the facility.  Replace VCT and rubber base in classrooms, Corridors and Multi-Purpose Room. A nominal cost to remove the existing VCT is included, however due to the fact that VAT is installed below the existing VCT in many locations, an exact cost to abate the VAT is to be determined by the District's environmental consultant.  Clean and Repaint restroom walls  Interior doors and frames and hardware  Wired glass  Subtotal Building Interior Costs  Enhancements  Replace ceranic tile floors in toilet rooms.  Replace cracked and damaged quarry tile in Cafeteria Serving area.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System  Expand the existing central plant DDC controls to provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Chiller DDC controls are not included.  Provide new energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency.  Provide new energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency.  Provide new packaged gas heating and D.X. cooling roof top unit to provide ventilation, air conditioning and outside air serving the main office to meet today's standards for indoor air quality and code required outside air.  Provide new packaged gas fread pass for indoor air quality and code required outside air.  Provide new packaged gas fread pass for indoor air quality and code required outside air.  Provide new packaged gas fired pass. cooled chiller, pumps, controls, . Does not include co	\$ 8,400 \$ 5,800 \$ 173,300 \$ 10,500 \$ 17,300 \$ 267,800 \$ 267,800 \$ 17,300 \$ 17,300 \$ 17,300 \$ 127,000 \$ 127,000 \$ 127,000 \$ 409,500 \$ 462,000 \$ 462,000 \$ 462,000 \$ 462,000	* Chiller DDC controls are only required if HVAC System Enhancement item #2 is selected. The cost for chiller DDC controls is included in the scope of work for HVAC System Enhancement item #2.  * See HVAC System Item #1 for building DDC controls cost estimate. See HVAC System Enhancement Item #6 for unit ventilators and heating/cooling piping description and cost estimate.

BALMORAL ELEMENTARY SCHOOL			
BALWONAL ELEWENTANT SCHOOL	Т		
Provide new packaged gas fired/ D.X. cooling roof top unit and duct distribution to serve the computer room rooms.	\$	152,300	
Subtotal HVAC System Enhancement Costs	\$	2,444,000	
Plumbing System Provide water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system,			
fixtures, piping, etc.	\$	107,600	
The domestic piping systems appear in fair condition and with proper maintenance has approximately 1 to 3 years before they will need replacement.	\$	882,000	
Subtotal Plumbing System Costs	\$	989,600	
Enhancements			
Replace the existing water closets and urinals with code compliant water consumption	\$	136,500	
Replace existing classroom sinks and faucets.	\$	36,800	
Subtotal Plumbing System Enhancement Costs Fire Protection System	7	173,300	
Enhancements			
Provide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and	\$	288,800	
improve safety of the facility.  Subtotal Fire Protection System Enhancement Costs	\$	288,800	
Electrical System		200,000	
Replace older obsolete electrical branch panels with new electrical panels.	\$	46,200	
Replace the existing outdated fire alarm control panel in its entirety including wiring with an addressable system which will inherently	\$	46,200	
provide numerous additional advantages.	+ '	. ,	
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and downstream in the electrical distribution. This protects lighting ballasts, variable frequency drives, computers, etc.	\$	28,900	
Subtotal Electrical System Costs	\$	121,300	
Enhancements			
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.	\$	34,700	
Replace existing light switches in building that have outlived their life cycle with new switches.  Provide a new natural gas generator to backup all emergency and current essential loads in building. These essential and emergency loads include, but are not limited to: Boilers, Heating Pumps, Sump Pumps, Fire Alarm Control Panel, Essential Food Service Loads/Offices/Equipment/Freezers, Temperature Controls to maintain building temperature above freezing, MDF cabinets, IDF cabinets, MDF/IDF Cooling, Emergency lighting, IT/Maintenance Offices, Multipurpose, Cafeteria and Exit Signs. Concrete pad included.	\$	17,300 115,500	
Provide occupancy sensors in all occupied spaces where lighting is not currently controlled by them.	\$	86,600	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.
Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.	\$	86,600	any igning system upgrades are undertaken.  *The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.
Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.			
Provide a lightning protection assessment for building	\$	8,700	
Subtotal Electrical System Enhancement Costs	\$	349,400	
Low Voltage System			
<b>Enhancements</b> Provide a new sound system, speakers and projector for Multipurpose Room and Gymnasium to allow spaces to be used for multiple			
events.	\$	57,800	
Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.	\$	34,700	
Expand the exisitng security camera system and provide additional cameras to monitor the building entrances and the common spaces. (maxium 10 cameras total)	\$	12,700	
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved			
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$	11,600	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other		11,600 116,800	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$		
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Subtotal Low Voltage System Enhancement Costs	\$	116,800	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Subtotal Low Voltage System Enhancement Costs  SUBTOTAL PHYSICAL FACILITY ASSESSMENT COSTS	\$ \$ \$	116,800 3,635,500	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Subtotal Low Voltage System Enhancement Costs  SUBTOTAL PHYSICAL FACILITY ASSESSMENT COSTS  SUBTOTAL PHYSICAL FACILITY ASSESSMENT ENHANCEMENT COSTS	\$ \$ \$	116,800 3,635,500 3,499,300 1,426,960	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Subtotal Low Voltage System Enhancement Costs  SUBTOTAL PHYSICAL FACILITY ASSESSMENT COSTS  SUBTOTAL PHYSICAL FACILITY ASSESSMENT ENHANCEMENT COSTS  SUBTOTAL PHYSICAL FACILITY ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES	\$ \$ \$ \$	116,800 3,635,500 3,499,300 1,426,960	
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Subtotal Low Voltage System Enhancement Costs  SUBTOTAL PHYSICAL FACILITY ASSESSMENT COSTS  SUBTOTAL PHYSICAL FACILITY ASSESSMENT ENHANCEMENT COSTS  SUBTOTAL PHYSICAL FACILITY ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ \$ \$ \$	116,800 3,635,500 3,499,300 1,426,960 8,561,760	

#### CRETE ELEMENTARY SCHOOL

#### 2013 LIFE SAFETY SURVEY

Provide concrete ramps and metal railings as necessary to provide code compliant egress from existing exterior exits.	\$	10,000
Reinstall door to swing in the direction of egress.	\$	8,700
Extend existing wall construction up to underside of the deck and properly seal to meet code required separation.	\$	17,300
Repair concrete to preserve structural integrity of steel reinforcing and existing concrete.	\$	17,300
Remove existing doors, frames and wall construction as necessary to recess the classroom entry. Provide wood door and hollow metal frame with sidelight in new masonry wall construction.	\$	46,200
Provide hollow metal doors and frames with insulated glazing and code compliant hardware at all damaged exterior exits.	\$	98,200
Provide a reduced pressure back flow preventer valve assembly on the existing domestic water service.	\$	7,600
Replace the existing domestic cold, hot and hot water return piping in the building to provide adequate water supply to the plumbing fixtures.	\$	1,004,900
Provide a grease trap for the kitchen sink.	\$	5,800
Provide new power burner controls with proper lamps.	\$	11,600
Provide new toilet exhaust fan systems.	\$	8,100
Provide an exhaust fan for the Janitors Closet to exhaust odors.	\$	-
Provide a new exhaust hood to provide 6 inch overlap on the double oven.	\$	-
Replace the existing heating piping, unit ventilators, and temperature controls on the northwest side of the facility to provide adequate hot water heating and new HVAC equipment to maintain space temperature.	\$	831,600
Provide a ceiling transfer air plenum in the corridor and transfer classroom relief air into the new plenum.	\$	40,400
Replace the existing heating piping, unit ventilators, boiler on the south and east side of the facility to provide adequate hot water heating		40,400
and new HVAC equipment to maintain space temperature.	\$	1,224,300
Provide emergency lighting.	\$	1,200
Provided fire alarm pull station.	\$	7,600
Provide fire alarm visual device.	\$	-
Provide accurate directory.	\$	-
Provide new exit sign.	\$	600
Provide additional receptacles in room to eliminate need for extension cords.	\$	-
Provide a new door for panel.	Ś	2,300
Provide door modifications and filler plates as required to conceal wiring and bussing.	\$	4,600
Provide new light fixture.	Ś	- "
Provide new junction box cover.	\$	
Patch all conduit penetrations with code compliant material.	Ś	700
Provide new motor compartment cover plate.	Ś	- ,
Provide exterior man door lighting.	\$	600
Provided fire alarm pull station.	Ś	600
Provide fire alarm visual device.	Ś	-
Provide accurate directory.	\$	-
Provide exterior man door lighting.	Ś	1,200
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SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS		\$3,351,400
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES		\$670,300
TOTAL LIFE SAFETY COSTS		\$4,021,700

### 2013 PHYSICAL FACILITIES ASSESSMENT

SITE		
Replace bituminous paving and rebuild parking lots and access drives.	\$ 190,600	
Replace broken / missing precast concrete parking bumpers and splash blocks	\$ 5,800	
Repair concrete walks to the east of the building particularly at the hard surface playgrounds	\$ 28,900	
Site courtyard grading and drainage	\$ 42,000	
Handrails/guardrails	\$ 21,000	
Subtotal Site Costs	\$ 288,300	
Enhancements		
Replace chain link fence at southwest parking area	\$ 4,200	
Install concrete barrier curbs to protect existing site landscaping at parking areas	\$ 4,100	
Resurface hard surface play grounds. Remove existing equipment as necessary to facilitate the work and reinstall.	\$ 155,900	
Subtotal Site Enhancement Costs	\$ 164,200	
ROOF		
Remove existing standing seam metal roofing at east Corridor 47. Repair existing roof deck, install nailable rigid insulation and new standing seam metal roofing including metal edge flashing, insulated metal fascia panel, gutters and downspouts. This installation should provide approximately 50 year life span with proper maintenance. If a shingle roof system is installed in lieu of standing seam metal roof the cost is approximately \$18,000 and the system life span is approximately 30 years.	\$ -	
Replace damaged/missing metal downspouts	\$ 5,300	
Replace roof stairs and ladder	\$ 9,500	
Subtotal Roof Costs	\$ 14,800	
Enhancements		
Remove existing foam roof roofing system down to existing deck and replace with new modified bitumen roofing system including 4" minimum rigid insulation, all roof drain assemblies, metal edge flashing, insulated metal fascia panel, gutters and downspouts as necessary. Does not include cafeteria roof which was re-reroofed in 2009.	\$ 1,265,400	
Subtotal Roof Enhancement Costs	\$ 1,265,400	
BUILDING ENVELOPE		
Scrape, repair and refinish perimeter wood fascia boards	\$ 4,100	
Scrape and repaint wood sub sill at exterior windows at Classrooms 8-18.	\$ 1,800	
Repair concrete and steel reinforcing at exposed building foundation walls	\$ 5,300	
Repair and clean damaged face brick and tuck point all mortar joints	\$ 259,900	
Repair and repaint exterior CMU walls at North façade	\$ 31,500	

CRETE ELEMENTARY SCHOOL		
Cut out and replace existing building control and expansion joints	\$ 1,800	
At the exterior windows at rooms 25 & 17, open walls to inspect the existing flashing and lintel, repair as necessary and close wall.	\$ 17,300	
	,,	
Scrape and repaint existing steel window and door lintels  Replace exterior windows at North, South, and East building facades	\$ 23,100 \$ 265,700	
Exterior doors (beyond LSS above)	\$ 89,300	
Subtotal Building Envelope Costs	\$ 699,800	
Enhancements		
Wrap existing wood fascia boards with prefinished metal.	\$ 45,800	
Subtotal Building Envelope Enhancement Costs	\$ 45,800	
BUILDING INTERIOR		
Replace 1x1 ceilings in Classrooms 2, 3, 4, 5, 6, 8, 10, 14, 31, 37, 39 and the Teacher's Lounge Rm.  20. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the ceiling tiles is to be determined by the District's environmental consultant.	\$ 121,300	
Replace 2x4 suspended ceiling system in the Kindergarten Classrooms 24 & 26, Learning Center Rm. 43, all toilet rooms and throughout the upper level Counseling offices 201-206.	\$ 8,700	
Replace damaged perforated metal ceiling in Corridor 9.	\$ 5,800	
Replace 2x2 suspended ceiling system in Main Entry Lobby Rm. 23A.	\$ 2,300	
Replace all VCT and rubber base throughout the entire facility. A nominal cost to remove the existing VCT is included, however due to the fact that VAT is installed below the existing VCT in many locations, an exact cost to abate the VAT is to be determined by the District's environmental consultant.	\$ 375,400	
Repair and repaint CMU walls in in Rms. 1, 9C, 29, 29A, 30, 33, 39, 41, Boiler Rm. 52 and throughout the Gymnasium.	\$ 86,600	
Repair and refinish all plaster walls and moldings at both Kindergarten Classrooms 24 & 26 and all upper and lower walls, window jambs,	\$ 155,900	
heads and sills in the 1938 building addition.  Replace damaged / missing wood floor base in Kindergarten Classrooms	\$ 2,900	
Replace damaged / missing wood noor base in kindergarten classrooms	\$ 2,900	
Patch concrete edges	\$ 5,300	
Handrails in stairwells	\$ 7,900	
Wired glass	\$ 52,500	
Subtotal Building Interior Costs	\$ 856,400	
Enhancements		
Replace separating and fraying carpet in Classrooms 4 & 8 and at the entrances to the Learning Center Rm. 43	\$ 1,200	
Replace ceramic tile floor finish in all toilet rooms	\$ 9,900	
Repaint hollow metal window frames at interior perimeter of Learning Center	\$ 2,300 \$ 1,800	
Repaint stairs to upper level storage in gymnasium  Replace all ceiling, wall and floor finishes at upper level gym storage room	\$ 1,800 \$ 17,300	
Subtotal Building Interior Enhancement Costs	\$ 32,500	
	7 32,300	
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS		
HVAC System		
HVAC System  Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.	\$ 194,300	
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the	\$ 194,300 \$ 315,000	
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the northwest side boiler room. This is not included in M-5 life safety item.	\$ 315,000	
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the northwest side boiler room. This is not included in M-5 life safety item.  Provide supplemental air conditioning in the main MDF room.		
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Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the northwest side boiler room. This is not included in M-5 life safety item.  Provide supplemental air conditioning in the main MDF room.  As a upgrade to Life Safety item M-5 provide 2-pipe heating/future cooling unit ventilators and associated piping distribution sized for future 2-pipe heating/cooling and upgraded DDC temperature controls. Does not include new boilers for the north & west side of the	\$ 315,000 \$ 39,900 \$ 115,500	**Boiler in the North & West side of the building included in HVAC
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the northwest side boiler room. This is not included in M-5 life safety item.  Provide supplemental air conditioning in the main MDF room.  As a upgrade to Life Safety item M-5 provide 2-pipe heating/future cooling unit ventilators and associated piping distribution sized for future 2-pipe heating/cooling and upgraded DDC temperature controls. Does not include new boilers for the north & west side of the building or replacement of the media center roof top unit. This is in addition to the costs noted for item M-5.  As a upgrade to Life Safety item M-8 provide 2-pipe heating/future cooling unit ventilators and associated piping distribution sized for future 2-pipe heating/cooling and upgraded DDC temperature controls. Does not include new boilers for the southeast side of the building	\$ 315,000 \$ 39,900 \$ 115,500	**Boiler in the North & West side of the building included in HVAC
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Web based interface of the facility to the main DDC server in the maintenance shop. DDC cost estimate of \$165,000 is for the south east side of the facility only (old steam heating system). The cost for the north west side DDC controls (approx. \$180,000) is included in Life Safety item M-5.  Provide new hot wtaer heating boilers, energy efficient pumps, variable speed drive controls, etc. to increase heating plan efficiency in the northwest side boiler room. This is not included in M-5 life safety item.  Provide supplemental air conditioning in the main MDF room.  As a upgrade to Life Safety item M-5 provide 2-pipe heating/future cooling unit ventilators and associated piping distribution sized for future 2-pipe heating/cooling and upgraded DDC temperature controls. Does not include new boilers for the north & west side of the building or replacement of the media center roof top unit. This is in addition to the costs noted for item M-5.  As a upgrade to Life Safety item M-8 provide 2-pipe heating/future cooling unit ventilators and associated piping distribution sized for future 2-pipe heating/cooling and upgraded DDC temperature controls. Does not include new boilers for the southeast side of the building or replacement of the gym roof top unit. This is in addition to the costs noted for item M-8.	\$ 315,000 \$ 39,900 \$ 115,500 \$ 173,300	**Boiler in the North & West side of the building included in HVAC
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CRETE ELEMENTARY SCHOOL			
Subtotal Plumbing System Costs	\$	234,700	
Fire Protection System			
Enhancements			
Provide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and improve safety of the facility.	\$	325,500	
Subtotal Fire Protection System Enhancement Costs	\$	325,500	
Electrical System			
Scattered throughout the facility are branch panel boards (some of which are load centers) that are old and in poor condition. We recommend all of these older panel boards be replaced.	\$	37,000	
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and downstream in the electrical distribution. This protects lighting ballasts, variable frequency drives, computers, etc.	\$	28,900	
Replace the existing underground secondary conduits from main switch gear in lower level boiler room out to electircal panels serving kitchen with over head conduits and feeders. Recondition the existing main switchgear in the lower level boiler room.	\$	11,600	
Current educational curriculum often uses extensive electronics, such as video equipment, computers for students and teachers, etc., within all teaching spaces (beyond computer labs). We recommend installation of additional "computer" power at the student computer locations (typically 4 computers) and at the teacher location to serve computers and audio/video equipment within each teaching space. In addition, this would include one (1) CAT-6 cable from the student cluster and one (1) CAT-6 cable from the teacher location back to the nearest IDF or MDF. This cost does not include testing areas, where there is a high density of computers, or computer labs.	\$	254,100	
Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs.	\$	23,100	
Provide new electrical service equipment to replace equipment which has outlived its life cycle.	\$	57,800	
Replace existing electrical receptacles in building that have outlived their life cycle with new receptacles.	\$	69,300	
Subtotal Electrical System Costs	\$	481,800	
Enhancements			
Replace existing light switches in building that have outlived their life cycle with new switches.	\$	28,900	
Provide a lightning protection assessment for building	\$	11,600	# The assessment Foreign Code and the control of th
Provide occupancy sensors in all occupied spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in	\$	92,400	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any
classrooms and offices.	\$	92,400	lighting system upgrades are undertaken.
Replace older emergency lighting and exit sign batteries that have outlived their life cycle with new emergency lights and exit signs.  Subtotal Electrical System Enhancement Costs	\$	23,100	
Low Voltage System	,	248,400	
The existing intercom is an older switch bank system, which is in need of continual repairs according to the service company. The system			
should be upgraded to a newer, more reliable system, which will inherently provide numerous additional advantages that are available with today's systems.	\$	46,200	
The existing master clock is an older system, which is in need of continual repairs according to the service company. The system should be upgraded to a newer, more reliable system, which will inherently provide numerous additional advantages that are available with today's systems.	\$	11,600	
Expand existing MDF and IDF cabinets and battery to accommodate future technology needs.	\$	34,700	
Subtotal Low Voltage System Costs	\$	92,500	
Enhancements			
Provide a new sound system, speakers and projector for Multipurpose Room and Gymnasium to allow spaces to be used for multiple events.	\$	52,500	
Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.	\$	52,500	
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved			
by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$	10,500	
Subtotal Low Voltage System Enhancement Costs	\$	115,500	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$	3,506,300	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS	\$	3,262,700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES	\$	1,353,800	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$	8,122,800	
TOTAL LIFE SAFETY COSTS	\$	4,021,700	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$	8,122,800	

CORETTA SCOTT KING MAGNET SCHOOL		
2013 LIFE SAFETY SURVEY		
Provide code compliant metal handrails at exterior concrete stair.	\$ 2,900.00	
Provide concrete exterior egress ramps at classroom exits including ramp surface, landings, curbs and metal handrails as required by	\$ 17,300.00	
code. Provide a grease trap for the 3 compartment sink.	\$ 5,800.00	-
Provide a reduced pressure back flow preventer valve assembly on the existing domestic water service.	\$ 7,600.00	-
Replace the existing domestic cold, hot and hot water return piping in the building to provide adequate water supply to the plumbing	\$ 906,700.00	
fixtures. Provide a central water heater for the facility.	, , , ,	
Provide a ceiling transfer air plenum in the corridor and transfer classroom relief air into the new plenum.  Provide a new kitchen exhaust hood with fire suppression system for cooking equipment.	\$ 60,100.00	-
Provide smoke detector above FACP.	\$ 300.00	
Provide fire alarm pull station.	\$ 600.00	
Provide new intercom device.	\$ 300.00	-
Provide new switch.	\$ -	_
Provide additional receptacles to eliminate need for extension cords.  Provide panelboard directories.	\$ -	-
Provide exterior man door lighting.	\$ 2,300.00	
SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS	\$ 1,003,900.00	
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES	\$ 200,800.00	
TOTAL LIFE SAFETY COSTS	\$ 1,204,700.00	
2013 PHYSICAL FACILITIES ASSESSMENT		
SITE		
Remove existing paving and repave with 3 1/2" bituminous paving on 12" minimum CA-6 compacted gravel base at approximately 25% of	\$ 236,800.00	
area.	230,000.00	
At the hard surface playgrounds remove existing paving and repave with 2 1/2" bituminous paving on 10" minimum CA-6 compacted gravel base at approximately 25% of area.	\$ 10,500.00	
Subtotal Site Costs	\$ 247,300.00	
Enhancements		
Replace stepped concrete walks at west classroom exterior exits to provide accessible concrete ramps	\$ 104,000.00	
Increase parking lot capacity, add isolated student drop-off/pick-up area from busses including additional drive up from Blackhawk Drive. Includes additional pole mounted lighting. Cost is in addition to parking lot and drives paving work which is required with the		
enhancement.		
Handrails	\$ 5,300.00	
Subtotal Site Enhancement Costs  ROOF	\$ 109,300.00	
Enhancements		
Remove existing foam roofs in their entirety down to the existing deck. Repair the roof deck as necessary and install a built-up roofing		
system on rigid insulation with all new roof drains, metal edge, flashing and gutters and downspouts as necessary.	-	
Subtotal Roof Enhancement Costs	\$ .	
BUILDING ENVELOPE		
Repair and clean damaged face brick and tuck point all mortar joints including exposed perimeter foundation joints.	\$ 306,100	
Replace all missing/damaged building exterior control and expansion joints	\$ 3,200	
Scrape and repaint rusting lintels.	\$ 3,200	
Replace exterior windows	\$ 109,700	
Replaced damaged exterior doors	\$ 75,100	
Subtotal Building Envelope Costs	\$ 497,300	
Enhancements		
After further inspection to determine extent of internal damage at the existing EIFS system, re-coat EIFS at entire perimeter of the	\$ 98,200	
building Subtotal Building Envelope Enhancement Costs	\$ 98,200	
BUILDING INTERIOR	7-,200	
Replace water stained, cracked, damaged, and discolored acoustical ceiling tiles throughout the facility.	\$ 5,800	
Repair and repaint cracked and damaged CMU throughout the facility.  Replace stained, cracked and damaged VCT flooring and transition strips in Corridors, Gymnasium, Cafeteria, Kitchen/Office	\$ 23,100	
101C, Classroom 137 and Exit Vestibule 144.	\$ 213,700	
Repair and repaint damaged gyp. board walls near Classroom 106.	\$ 1,200	
Gym Interior ceiling work	\$ 10,500	
Wired Glass Subtotal Building Interior Costs	\$ 52,500 \$ 306,800	
Subtotal Building Interior Costs  Enhancements	300,800	
Replace carpet in Corridors and Offices 101A &B	\$ 16,300	
Repair and refinish interior wood doors throughout the facility. (approx. 75 doors)	\$ 24,200	
Replace ceramic floor tile in toilet rooms	\$ 46,200	
Replace all metal toilet partitions.  Window blinds	\$ 43,400 \$ 47,300	
Subtotal Building Interior Enhancement Costs	\$ 47,300 \$ 177,400	
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS	,,,,,,,	
HVAC System  Evanuel the existing central plant DDC centrals to provide direct digital temperature centrals with new room thermostate, central		* Chiller DDC controls are only required if LIVAC Control Tables 2
Expand the existing central plant DDC controls to provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Chiller DDC controls are not	\$ 315,000	* Chiller DDC controls are only required if HVAC System Enhancement iten #1 is selected. The cost for chiller DDC controls is included in the scope of
included.		work for HVAC System Enhancement item #1.
Provide supplemental air conditioning in the MDF Room.	\$ 39,900	
Subtotal HVAC System Costs  Enhancements	\$354,900	
Enhancements		

CORETTA SCOTT KING MAGNET SCHOOL		
Provide air conditioning with packaged air cooled chiller, pumps, controls. Does not include costs for building DDC controls, new 2-pipe heating and cooling unit ventilators or new piping distribution in the building.	\$ 462,000	* See HVAC System Item #1 for building DDC controls cost estimate. See HVAC System Enhancement Item #2 for heating/cooling piping description and cost estimate. See HVAC System Enhancement Item #6 for unit ventilators description and cost estimate.
Provide new 2-pipe heating/future cooling piping distribution system throughout the facility.	\$ 981,800	
Provide new packaged gas heating and D.X. cooling roof top unit to provide ventilation, air conditioning and outside air serving the main office to meet today's standards for indoor air quality and code required outside air.	\$ 89,300	
Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the gymnasium area. Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 115,500	
Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the lunch room area. Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 141,800	
Provide new2-pipe heating/ future cooling unit ventilation for the classrooms. New piping, chiller and building DDC controls are not included.	\$ 409,500	** See HVAC System Item #1 for DDC controls cost estimate.  ADD 35,000 for replacement of lunch room ventilators if replaced in lieu of new RTU as described in HVAC System Enhancement Item #5.
Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space. This is an enhancement and not included in the unit ventilator replacement costs.	\$ 76,100	
Replace the aging toilet exhaust fans with new exhaust fans.  Subtotal HVAC System Enhancement Costs	\$ 92,400 \$2,368,400	
Plumbing System	+2,500,400	
Provide water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system, fixtures, piping, etc.	\$ 107,600	
Replace the existing water closets and urinals with code compliant water consumption	\$ 121,300	
Subtotal Plumbing System Costs	\$228,900	
Fire Protection System Enhancements		
Provide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and	\$ 309,800	
improve safety of the facility.  Subtotal Fire Protection System Enhancement Costs	\$309,800	
Electrical System	+,0,,000	
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and	\$ 31,800	
Subtotal Electrical System Costs	\$ 31,800	
Enhancements		
Replace older obsolete electrical branch panel boards with new panel boards.	\$ 46,200	
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.	\$ 46,200	
Replace existing light switches in building that have outlived their life cycle with new switches.	\$ 23,100	
Provide occupancy sensors in all occupied spaces where lighting is not currently controlled by them.	\$ 86,600	* The current Energy Code requires occupancy sensors to be installed if
Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.	\$ 86,600	any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.
Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.	\$ 1,700	-8
Provide a lightning protection assessment for building	\$ 16,200	
Subtotal Electrical System Enhancement Costs	\$ 306,600	
Low Voltage System	7 300,000	
The existing master clock is an old system, which is in need of continual repairs according to the service company. The system should be upgraded to a newer, more reliable system, which will inherently provide numerous additional advantages that are available with today's systems. Estimates cost of replacing this system includes the wiring.	\$ 11,600	
Subtotal Low Voltage System Costs	\$ 11,600	
Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.	\$ 57,800	
Froutier a new sound system, speakers and projector for cyminastian to anow spaces to be used for multiplice events.  Expand the existing security camera system and provide additional cameras to monitor the building entrances and the common spaces. (maxium 12 cameras total)	\$ 57,000	
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$ 11,600	
Subtotal Low Voltage System Enhancement Costs	\$ 84,400	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 1,678,600	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS	\$ 3,454,100	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ <b>1,026,540</b> \$ 6,159,240	
TOTAL LIFE SAFETY COSTS  TOTAL DAYSICAL FACILITIES ASSESSMENT COSTS	\$ 1,204,700	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 6,159,240	
GRAND TOTAL	\$ 7,363,940	

EARLY LEARNING OFNITER		
EARLY LEARNING CENTER		
2013 LIFE SAFETY SURVEY		
Provide clear tempered glass in existing display case.	\$ 1,800	
Provide code compliant rated doors and frames as well as code compliant hardware to maintain rating and provide adequate egress.	\$ 7,600	
Provide hollow metal doors and frames with all required code compliant hardware. glazing in doors and sidelights to be insulated.	\$ 52,600	
Install code compliant floor finish transitions and door thresholds as required for proper egress at existing spaces.	\$ 1,800	
Remove and replace damaged CMU and properly install new CMU as required to provide code compliant separation.	\$ 1,200 \$ 28,900	
Provide sprinkler water service and sprinkler system for the stage area.  Provide a reduced pressure back flow preventer valve assembly on the existing domestic water service.	\$ 28,900 \$ 7,600	
Replace the existing domestic cold, hot and hot water return piping in the building to provide adequate water supply to the plumbing		
fixtures.	, , ,,,,,	
Provide new exhaust hood for cooking equipment being utilized.  Replace the existing boilers, unit ventilators and heating piping to provide adequate hot water heating to the HVAC equipment to	\$ 34,700	
maintain space temperature.	\$ 900,900	
Provide a ceiling transfer air plenum in the corridor and transfer classroom relief air into the new plenum.	\$ 63,500	
Provide new light fixture.	\$ -	
Provide new light fixture lens.  Provide accurate directory.	\$ - \$ -	
Provide new electrical panel door lock.	\$ -	
SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS	\$ 2,197,900	
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES	\$ 439,600	
TOTAL LIFE SAFETY COSTS	\$ 2,637,500	
2013 PHYSICAL FACILITIES ASSESSMENT		
SITE  Demonstrating paying and spays with a 4/3" bit unique paying on 43" minimum CA Compacted gravel back at approximately any of		
Remove existing paving and repave with 3 1/2" bituminous paving on 12" minimum CA-6 compacted gravel base at approximately 25% of area.	\$ 239,700.00	
Replace concrete stoop and walk at courtyard exterior access	\$ 10,500.00	
Subtotal Site Costs ROOF	\$ 250,200.00	
Clean and paint all courtyard soffit panels. Repair panels as necessary.	\$ 11,000.00	
Subtotal Roof Costs	\$ 11,000.00	
BUILDING ENVELOPE		
Scrape and repaint existing steel window and door lintels	\$ 3,700.00	
Scrape and repaint existing exterior exposed steel building structure	\$ 1,800.00 \$ 236,800.00	
Repair and clean damaged face brick and tuck point all mortar joints	\$ 236,800.00	
At the exterior exits 11, 12 & 13 from gymnasium, open up walls to further inspect existing lintels and flashing to determine cause and extent of damage at these openings. Repair as necessary and close wall.	\$ 52,500.00	
Exterior Windows - Replace Caulking	\$ 5,300.00	
Subtotal Building Envelope Costs	\$ 300,100.00	
Enhancements Scrape and repaint existing wood roof structure	\$ 21,000.00	
Repaint exterior metal hoods in courtyard	\$ 2,300.00	
Subtotal Building Envelope Enhancement Costs	\$ 23,300.00	
BUILDING INTERIOR	313	
Repair and paint all exposed ceilings throughout the facility	\$ 160,000.00	
Replace damaged / stained suspended ceiling tiles throughout the facility	\$ 1,200.00	
Repair and repaint CMU walls through out the building primarily at the locations of roof structure bearing at interior corridor walls and exterior walls in Classrooms 1, 11, 13, 15, 17, 19, 21, 23 & 25. General CMU repair and repaint also required at Classrooms 28, 30 & 32,	\$ 402,600.00	
Boiler Rm. 41, Multi- Purpose Rm. 48 and in Storage Rm. 53, gymnasium and throughout both locker rooms.  Replace fraying and separating carpet in Classrooms 1, 11, 13, 15, 16, 17, 18, 19, 20, 21, 23 & 25. A nominal cost to remove the existing flooring is included, however due to the fact that VAT is installed in various locations, an exact cost to abate the VAT is to be	\$ 58,400.00	
determined by the District's environmental consultant.  Replace tile flooring in Kitchen, Serving and Kitchen Storage, Office and Toilet Rms. A nominal cost to remove the existing flooring is	3 30,400.00	
included, however due to the fact that VAT is installed in various locations, an exact cost to abate the VAT is to be determined by the District's environmental consultant.	\$ 43,400.00	
Replace damaged / missing wood floor base in gymnasium.	\$ 2,300.00	
Repair damaged gyp. board pilasters in gymnasium.  Benlace broken backethall backston	\$ 9,900.00 \$ 1,800.00	
Replace broken basketball backstop Wired glass	\$ 1,800.00 \$ 52,500.00	
Subtotal Building Interior Costs	\$ 732,100.00	
Enhancements		
Replace damaged wall pads in Multi-Purpose Rm. 48.	\$ 4,100.00	
Replace ceramic tile floor finish in all Toilet Rms.	\$ 36,400.00	
Repair cracks in concrete floor slab in Storage Rms. 40 & 53.	\$ 13,300.00	
Replace damaged casework at Kindergarten Classrooms 28 & 32.	\$ 20,300.00	
Repaint all interior wood doors and hollow metal frames.	\$ 22,600.00	
Repair and electro statically repaint exterior surfaces of metal corridor lockers. Repairs required at approximately 10% of lockers. No cost included to reinstall missing combination locks currently removed from ALL lockers.	\$ 17,700.00	
Subtotal Building Interior Enhancement Costs	\$ 114,400.00	
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS		·
HVAC System		
Provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Webb base Interface the facility to the main DDC server in the	\$ 288,800.00	* Chiller DDC controls are only required if HVAC System Enhancement item #1 is selected. The cost for chiller DDC controls is included in the scope of
maintenance shop. Chiller DDC controls are not included.  As an upgrade Life Safety item M-3, provide new 2-pipe heating and cooling piping distribution, new 2-pipe heating/future cooling unit ventilators to heat and ventilate and provide exhaust make-up and outside air quantity to meet today's standards for exhaust make-up,	\$ 630,000.00	work for HVAC System Enhancement item #1.  ** See HVAC Systems Item #1 for DDC control cost information.
indoor air quantity and code required outside air for classrooms. DDC controls are not included.		See Life Safety Item M-3 for H/V piping replacement cost.

EARLY LEARNING CENTER		
Provide supplemental air conditioning in the MDF Room.	L 444 800	00 District office main MDF room.
· · · · · · · · · · · · · · · · · · ·	\$ 141,800	
Subtotal HVAC System Costs Enhancements	\$ 1,060,600	00
Provide air conditioning with packaged air cooled chiller, pumps, controls. Does not include costs for building DDC controls, new 2-pipe heating and cooling unit ventilators or new piping distribution in the building. Does not include new roof top unit costs for gymnasium, lunch room or computer room.	\$ 288,800	* See HVAC System Item #1 for building DDC controls cost estimate.  See HVAC System Item #2 for unit ventilators cost estimate. See Life Safety Item M-3 for heating/future cooling piping cost estimate.
Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the gymnasium area. Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 115,500	
Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the lunch room area. Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 115,500	00
Provide new packaged gas fired/ D.X. cooling roof top unit and duct distribution to serve the computer room area.	\$ 75,600	00
Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space. This is an enhancement and not included in the unit ventilator replacement costs.	\$ 46,200	00
Replace the aging toilet exhaust fans with new exhaust fans.	\$ 75,600	00
Subtotal HVAC System Enhancement Costs	\$ 717,200	00
Plumbing System Provide water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system,	\$ 107,600	00
fixtures, piping, etc.  Replace existing domestic water heater with new sealed combustion water heater and new circulating pump.	\$ 11,600	
Replace the existing classroom sinks and faucets.	\$ 21,000	
Replace the existing water closets and urinals with code compliant water consumption fixtures.	\$ 115,500	
Subtotal Plumbing System Costs	\$ 255,700	00
Fire Protection System		
Enhancements Provide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and		
improve safety of the facility. Routing of fire protection piping to be exposed in areas of exposed finished structure.	\$ 231,	
Subtotal Fire Protection System Enhancement Costs  Electrical System	\$ 231,	00
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect		
electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and downstream in the electrical distribution. This protects lighting ballasts, variable frequency drives, computers, etc. current educational curriculum often uses extensive electronics, such as video equipment, computers for students and teachers,		0
etc., within all teaching spaces (beyond computer labs). We recommend installation of additional "computer" power at the student computer locations (typically 4 computers) and at the teacher location to serve computers and audio/video equipment within each teaching space. In addition, this would include one (1) CAT-6 cable from the student cluster and one (1) CAT-6 cable from the	\$ 167,5	0
teacher location back to the nearest IDF or MDF. This cost does not include testing areas, where there is a high density of computers, or		
Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.	\$ 23,1	
Provide additional power outlets future low voltage equipment , computers, etc in teaching spaces  Subtotal Electrical System Costs	\$ 69,3	
Enhancements	3 203,0	70
Emancements		
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.	\$ 46,2	
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.	\$ 23,1	0
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.	1.7	to the current Energy Code requires occupancy sensors to be installed if
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.	\$ 23,1	The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in	\$ 23,1 \$ 8,7 \$ 104,0	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 5,8	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.	\$ 23,1 \$ 8,7 \$ 104,0 \$ 13,9	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o o o
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1	o * The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7	o * The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1	o * The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs  Low Voltage System	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.      * The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for multi-purpose room and Gymnasium to allow spaces to be used for multiple	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1	o *The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  *The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o o o o o o o o o o o o o o o o o o o
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for multi-purpose room and Gymnasium to allow spaces to be used for multiple events.	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1 \$ 363,5	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.  o lighting system upgrades are undertaken.
Replace existing electrical receptacles that have outlived their life cycle with new receptacles.  Replace existing light switches in building that have outlived their life cycle with new switches.  Provide new raceways to conceal data and phone wiring.  Provide occupancy sensors in all spaces where lighting is not currently controlled by them.  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  Provide a lightning protection assessment for building  Replace old distribution panel boards and branch panel boards.  Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for multi-purpose room and Gymnasium to allow spaces to be used for multiple events.  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.	\$ 23,1 \$ 8,7 \$ 104,0 \$ 104,0 \$ 13,9 \$ 5,8 \$ 34,7 \$ 23,1 \$ 363,5	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.  * The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.    The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.
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March   Marc	MONEE EDUCATION CENTER			
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Pagintar   The adding pagint grap protein adequate his variet handing to the PNAC applyment to real activation processors.	Provide an exhaust fan for the Janitors Closet to exhaust odors.	\$	-	
Position to well glift finance inco.	Provide a larger kitchen exhaust hood to provide 6 inch overlap of the cooking equipment.	\$	-	
Fraction from fire plate States.  **Production medin from Bustiers.  **Production from Bustiers.  **Pr	Replace the existing heating piping to provide adequate hot water heating to the HVAC equipment to maintain space temperature.	\$	26,000	
Production with fire blank particulations	Provide new light fixture lens.	\$	-	
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Register all concrete walks through out the size	2013 PHYSICAL FACILITIES ASSESSMENT			
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Enhancements         Image: Control in soon with MB         Image: Control in soon wi	Replace missing / Damaged precast concrete splash blocks	\$	1,200	
Replaced in 2004 with MB	Subtotal Roof Costs	\$	4,100	
Subtotal Roof Enhancement Costs  BULIONE ENVELODE  Surge, and repair existing steel window and door lintels  Repair and clean damaged face brick and tuck point all mortar joints  Scrape, repair and refinish perimeter wood faced boards  Replace existing siding at Teacher's Lounge Rm. 14 including all fishing, trim and caulking to provide a weather tight condition.  Replace all door seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 8.18 which are covered in list steely item A <sub>5</sub> .  Replace all windows in Teacher's Lounge and diltion Rm. 14.  Subtotal Buliding Envelope Costs  Enhancements  Replace all windows at Kindergarten Classrooms 10 8 12.  Subtotal Buliding Envelope Costs  Enhancements  Replace eluminum windows dat Kindergarten Classrooms 10 8 12.  Subtotal Buliding Envelope Enhancement Costs  BULIONG MYERION  Buliding Envelope Enhancement Costs  BULIONG MYERION  Replace earlies in ward to subject the Common of the Common of the Cost of the Common of the Cost	Enhancements			
BUILDING ENVELOPE         Image: Comparison of repairs existing steel window and door linteds         \$ 1,800           Scrape and repairs existing steel window and door linteds         \$ 104,000           Scrape, repair and refinish perimeter wood fascia boards         \$ 4,100           Replace existing skiding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.         \$ 12,600           Replace all idoor seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 & 18 which are cowered in Life Safety item A-5.         \$ 4,000           Replace all windows in Teacher's Lounge addition Rm. 14.         \$ 133,000           Subtotal Building Envelope Costs         \$ 133,000           Enhancements         \$ 40,400           Wrap existing wood fascia boards with prefinished metal.         \$ 12,200           Subtotal Building Envelope Enhancement Costs         \$ 35,600           BUILDING MITER ROR         \$ 11,600           Repair replace damaged printing of its I Classroom ceilings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various bocations, an exact cost to remove preplace the ceiling tiles is to be determined by the District's environmental consultant.         \$ 1,800           Repair and repairs CMU walls throughout the Gymnasium.         \$ 1,800         \$ 6,400           Repair and repairs CMU walls throughout the Gymnasium.         \$ 1,500	Replaced in 2004 with MB	\$	-	
Scrape and repaint existing steel window and door lintels Repair and reflinish pertineter wood fascia boards Scrape, repair and reflinish pertineter wood fascia boards Replace existing siding at Teacher's Lounge Rm. 14, including all flashing, trim and caulking to provide a weather tight condition. Replace existing siding at Teacher's Lounge Rm. 14, including all flashing, trim and caulking to provide a weather tight condition. Replace all door seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 8,18 which are covered in Life Safety item A5. Replace all windows in Teacher's Lounge addition Rm. 14. Subtotal Building Envelope Costs Enhancement Replace all windows in Teacher's Lounge addition Rm. 14. Subtotal Building Envelope Costs Enhancement Replace all windows in Teacher's Lounge addition Rm. 14. Subtotal Building Envelope Costs  BULDING INTERIOR Repair (replace damaged portions of six Classroome cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove freplace the celling tiles is to be determined by the District's environmental consultant. Replace various changed Arms and Cafeteria to eliminate possible future tripping hazard. Replace and repairs CAMU walls throughout the Cymnasium. Kitchen and Cafeteria to eliminate possible future tripping hazard. Reprice Calcus Canada (Page Calcus Contained) Replace and repairs CAMU walls throughout the Gymnasium and Cafeteria to eliminate possible future tripping hazard. Subtotal Building Interior Costs Repair (replace damaged missing axa suspended celling tiles in corridors Replace and repairs CAMU walls throughout the Gymnasium. Replace and repairs CAMU walls throughout the Gymnasium. Replace and repairs CAMU walls throughout the Gymnasium and Cafeteria to eliminate possible future tripping hazard. Replace and repairs CAMU walls throughout the Gymnasium and Cafeteria to eliminate possible future tripping haz	Subtotal Roof Enhancement Costs	\$	-	
Repair and clean damaged face brick and tuck point all mortar joints  Scrape, repair and refinish perimeter wood fascia boards  Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.  Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.  Replace all door sals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 118.18 which are covered in Life Safety Rem A-5.  Replace all windows in Teacher's Lounge addition Rm. 14.  Subtotal Building Envelope Costs  Replace aluminum windows at Kindergarten Classrooms 10 & 12.  Wrap existing wood fascia boards with prefinished metal.  Subtotal Building Envelope Inhancement Costs  Building Envelope Financement Costs  Building Envelope or Inhancement Costs  Building Envelope or Inhancement Costs  Building Envelope Guitage Envelope Inhancement Costs  Building Envelope or Inhancement Costs  Building Envelope Inhancement Costs  Building E	BUILDING ENVELOPE			
Scrape, repair and refinish perimeter wood fascia boards  Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.  Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.  Replace all door seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 & 18 which are covered in Life Safety them A-5.  Replace all windows in Teacher's Lounge addition Rm. 14.  Subtotal Building Envelope Costs  8 133,000  Enhancements  Replace aluminum windows at Kindergarten Classrooms 10 & 12.  Way a existing wood fascia boards with prefinished metal.  \$ 12,200  Subtotal Building Envelope Enhancement Costs  \$ 5,400  BuilLink Interior  Repair replace damaged portions of 1x1 Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's environmental Lonsonsitant.  Replace various damaged / missing 2x2 suspended celling tiles in corridors  Repair and repaint CMU walls throughout the Cymnasium. Kitchen and Cafeteria  Repair and repaint CMU walls throughout the Gymnasium and Cafeteria to eliminate possible future tripping hazard.  Reving  Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  Reving  Replace Substantial Building Interior Costs  Replace and fraying carpet in Classrooms 913  Replace separating and fraying carpet in Classrooms 913	Scrape and repaint existing steel window and door lintels	\$	1,800	
Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.  Replace all door seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 & 18 which are covered in Life Safety Item A-5.  Replace all windows in Teacher's Lounge addition Rm. 14.  \$ 4,100  Subtoal Building Envelope Costs	Repair and clean damaged face brick and tuck point all mortar joints	\$	104,000	
Replace all door seals to prevent air infiltration at all exterior doors. Cost indicated does not include doors at rooms 4, 8, 11 8.18 which are covered in Life Safety Item A.5.  Replace all windows in Teacher's Lounge addition Rm. 14.  \$ 133,000  Subtotal Building Envelope Costs \$ 133,000  Enhancements  Replace aluminum windows at Kindergarten Classrooms 10 8/12.  Wrap existing wood fascia boards with prefinished metal.  \$ 12,200  Subtotal Building Envelope Enhancement Costs  BuilDININ INTERIOR  Repair Preplace damaged portions of 1xt Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's environmental consultant.  Repair and repaired MU walls throughout the Corridors, Gymnasium, Ritchen and Cafeteria to eliminate possible future tripping hazard.  Repove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  Keying  Wired Class  Subtotal Building Interior Costs  \$ 2,000  Subtotal Building Grevelope Costs  \$ 2,000  Subtotal Building Interior Costs  Beplace separating and fraying carpet in Classrooms 9-13	Scrape, repair and refinish perimeter wood fascia boards	\$	4,100	
are covered in Life Safety item A-5.  Replace all windows in Teacher's Lounge addition Rm. 14.  \$ 4,100  Subtotal Building Envelope Costs	Replace existing siding at Teacher's Lounge Rm. 14 including all flashing, trim and caulking to provide a weather tight condition.	\$	12,600	
Replace all windows in Teacher's Lounge addition Rm. 14.  Subtotal Building Envelope Costs  ### 133,000  Enhancements  ### 40,400  Wrap existing wood fascia boards with prefinished metal.  \$ 40,400  Wrap existing wood fascia boards with prefinished metal.  \$ 12,200  Subtotal Building Envelope Enhancement Costs  ### 52,600  BULDING INTERIOR  Repair / replace damaged portions of 1xt Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2xx2 suspended celling tiles in corridors  Replace all VCT and rubber base in the Corridors, Cymnasium, Ritchen and Cafeteria  #### 15,800  Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  Keying  #### 52,500  Kitchen counter  ### 20,600  Subtotal Building Interior Costs  ### 20,600  Enhancements  ### 21,400  ### 21,400		\$	6,400	
Subtotal Building Envelope Costs Enhancements Replace aluminum windows at Kindergarten Classrooms to & 12.  Replace aluminum windows at Kindergarten Classrooms to & 12.  Wrap existing wood fascia boards with prefinished metal.  \$ 40,400  Wrap existing wood fascia boards with prefinished metal.  \$ 12,200  Subtotal Building Envelope Enhancement Costs  \$ 52,600  BUILDING INTERIOR  Repair / replace damaged portions of stx Classroom ceilings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the ceiling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2x2 suspended ceiling tiles in corridors  Replace all IVCT and rubber base in the Corridors, Cymnasium, Kitchen and Cafeteria  \$ 76,000  Repair and repaint CMU walls throughout the Cymnasium.  \$ 43,400  Keying  \$ 15,800  Wired Glass  \$ 52,500  Kitchen counter  \$ 20,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13  \$ 21,400		ė	4.400	
Enhancements  Replace aluminum windows at Kindergarten Classrooms 10 & 12.  Wrap existing wood fascia boards with prefinished metal.  \$ 40,400  Subtotal Building Envelope Enhancement Costs \$ 52,600  Subtotal Building Envelope Enhancement Costs \$ 53,600  Subtotal Building Envelope Enhancement Costs \$ 53,600  Subtotal Building Envelope Enhancement Costs \$ 1,800  Repair / replace damaged portions of 1x1 Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's 11,600  environmental consultant.  Replace various damaged / missing 2x2 suspended celling tiles in corridors \$ 1,800  Replace all VCT and rubber base in the Corridors, Cymnasium, Kitchen and Cafeteria \$ 76,000  Repair and repaint CMU walls throughout the Gymnasium.  \$ 43,400  Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  \$ 1,800  Keying \$ 15,800  Wired Class \$ 52,500  Kitchen counter \$ 15,800  Subtotal Building Interior Costs \$ 20,9,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13		_		
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Wrap existing wood fascia boards with prefinished metal.  \$ 12,200  Subtotal Building Envelope Enhancement Costs  \$ 52,600  BUILDING INTERIOR  Repair / replace damaged portions of 1xt Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2x2 suspended celling tiles in corridors  \$ 1,800  Repair and rubber base in the Corridors, Gymnasium, Kitchen and Cafeteria  \$ 76,000  Repair and repaint CMU walls throughout the Gymnasium.  \$ 43,400  Keying  \$ 15,800  Wired Glass  Kitchen counter  \$ 5,2,500  Subtotal Building Interior Costs  \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9+3		\$	40,400	
Subtotal Building Envelope Enhancement Costs  BUILDING INTERIOR  Repair / replace damaged portions of 1x1 Classroom cellings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the celling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2x2 suspended celling tiles in corridors  Repair and repaint CMU walls throughout the Gymnasium, Kitchen and Cafeteria \$ 76,000  Repair and repaint CMU walls throughout the Gymnasium and Cafeteria to eliminate possible future tripping hazard. \$ 6,400  Keying \$ 15,800  Wired Class \$ \$ 22,500  Kitchen counter \$ \$ 2,100  Subtotal Building Interior Costs \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400		1		
BUILDING INTERIOR  Repair / replace damaged portions of 1x1 Classroom ceilings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the ceiling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2x2 suspended ceiling tiles in corridors  Replace all VCT and rubber base in the Corridors, Gymnasium, Kitchen and Cafeteria  \$ 76,000  Repair and repaint CMU walls throughout the Gymnasium.  \$ 43,400  Keying \$ 15,800  Wired Glass  \$ 52,500  Kitchen counter \$ 2,100  Subtotal Building Interior Costs \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13		<u> </u>		
Repair / replace damaged portions of 1x1 Classroom ceilings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the ceiling tiles is to be determined by the District's environmental consultant.  Replace various damaged / missing 2x2 suspended ceiling tiles in corridors  Replace all VCT and rubber base in the Corridors, Gymnasium, Kitchen and Cafeteria  \$ 76,000  Repair and repaint CMU walls throughout the Gymnasium.  \$ 43,400  Keying  \$ 15,800  Wired Glass  Kitchen counter  \$ 2,100  Subtotal Building Interior Costs  \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13		7	52,000	
Replace all VCT and rubber base in the Corridors, Gymnasium, Kitchen and Cafeteria \$ 76,000    Repair and repaint CMU walls throughout the Gymnasium. \$ 43,400    Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard. \$ 6,400    Keying \$ 15,800    Wired Glass \$ 52,500    Kitchen counter \$ 2,100    Subtotal Building Interior Costs \$ 209,600    Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400	Repair / replace damaged portions of 1x1 Classroom ceilings particularly in East wing. Due to the fact that suspected asbestos containing materials may be installed in various locations, an exact cost to remove / replace the ceiling tiles is to be determined by the District's	\$	11,600	
Replace all VCT and rubber base in the Corridors, Gymnasium, Kitchen and Cafeteria \$ 76,000    Repair and repaint CMU walls throughout the Gymnasium. \$ 43,400    Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard. \$ 6,400    Keying \$ 15,800    Wired Glass \$ 52,500    Kitchen counter \$ 2,100    Subtotal Building Interior Costs \$ 209,600    Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400	Replace various damaged / missing 2x2 suspended ceiling tiles in corridors	\$	1,800	
Repair and repaint CMU walls throughout the Gymnasium.  \$ 43,400  Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  \$ 6,400  Keying  \$ 15,800  Wired Glass  \$ 52,500  Kitchen counter  \$ 2,100  Subtotal Building Interior Costs  \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13  \$ 21,400		_		
Remove and replace floor slab expansion joint between Gymnasium and Cafeteria to eliminate possible future tripping hazard.  \$ 6,400  Keying \$ 15,800  Wired Glass \$ 52,500  Kitchen counter \$ 2,100  Subtotal Building Interior Costs \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400		1		
Wired Glass \$ 52,500   Kitchen counter \$ 2,100   Subtotal Building Interior Costs \$ 209,600   Enhancements		\$		
Wired Glass \$ 52,500   Kitchen counter \$ 2,100   Subtotal Building Interior Costs \$ 209,600   Enhancements	Keying	\$	15,800	
Kitchen counter \$ 2,100  Subtotal Building Interior Costs \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400		_		
Subtotal Building Interior Costs \$ 209,600  Enhancements  Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400		1		
Enhancements Replace separating and fraying carpet in Classrooms 9·13 \$ 21,400		-		
Replace separating and fraying carpet in Classrooms 9-13 \$ 21,400		7	209,000	
		\$	21,400	
		\$	21,400	

## MONEE EDUCATION CENTER

MONEE EDUCATION CENTER		
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS		
HVAC System		
Expand the existing central plant DDC controls to provide direct digital temperature controls with new room thermostats, control valves, temperature control panel, and programming to provide better temperature control of the facility. Chiller DDC controls are not included.	\$ 168,000	* Chiller DDC controls are only required if HVAC System Enhancement item #1 is selected. The cost for chiller DDC controls is included in the scope of work for HVAC System Enhancement item #1.
As a upgrade to Life Safety item M-5, provide 2-pipe heating/future cooling piping distribution system along with new 2-pipe heating/future cooling unit ventilators to heat and ventilate and provide exhaust make-up and outside air quantity to meet today's standards for exhaust make-up, indoor air quantity and code required outside air for classrooms. New piping and DDC controls are not included.	\$ 472,500	** See HVAC Systems Item #1 for DDC control cost information. See HVAC Item M-2 for piping upgrade replacement cost.
Provide supplemental air conditioning in the MDF Room.	\$ 39,900	
Subtotal HVAC System Costs	\$ 680,400	
Enhancements		
Provide air conditioning with packaged air cooled chiller, pumps, controls. Does not include costs for building DDC controls, new 2-pipe heating and cooling unit ventilators or new piping distribution in the building. Does not include new roof top unit costs for gymnasium, cafeteria or main office.	\$ 199,500	* See HVAC System Item #1 for building DDC controls cost estimate. See HVAC System Item #2 for unit ventilators cost estimate. See Life Safety Item M-5 for heating piping cost estimate.
Provide new packaged gas fired/ D.X. cooling roof top unit with energy recovery and duct distribution to serve the gymnasium area.  Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 115,500	
Provide new packaged gas fired/D.X. cooling roof top unit with energy recovery and duct distribution to serve the lunch room area.  Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.	\$ 115,500	
Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space. This is an enhancement and not included in the unit ventilator replacement costs.	\$ 29,900	
Replace the aging toilet exhaust fans with new exhaust fans.	\$ 46,200	
Provide new packaged gas fired/ D.X. cooling roof top unit and duct distribution to serve the main office area.	\$ 52,500	
Provide new packaged gas fired/ D.X. cooling roof top unit and duct distribution to serve the computer room area.	\$ 75,600	
Subtotal HVAC System Enhancement Costs	\$ 634,700	
Plumbing System  Provide water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system, fixtures, piping, etc.	\$ 107,600	
Replace existing domestic water heater with new sealed combustion water heater and new circulating pump.	\$ 11,600	
Replace the existing classroom sinks and faucets.	\$ 11,000	
Replace the existing water closets and urinals with code compliant water consumption fixtures.	\$ 23,100	
Correct drainage piping issue outside on south east corner of the gymnasium.	\$ 5,800	
Subtotal Plumbing System Costs Fire Protection System	\$ 159,100	
Enhancements		
Provide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and improve safety of the facility.	\$ 105,000	
Subtotal Fire Protection System Enhancement Costs	\$ 105,000	
Electrical System		
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and downstream in the electrical distribution. This protects lighting ballasts, variable frequency drives, computers, etc.	\$ 23,100	
Replace older obsolete electrical branch panels with new electrical panels.	\$ 18,500	
Subtotal Electrical System Costs	\$ 41,600	
Enhancements  Replace existing electrical receptacles that have outlived their life cycle with new receptacles.	\$ 18,400	
Replace existing light switches in building that have outlived their life cycle with new switches.	\$ 8,700	
Provide a new natural gas generator to backup all emergency and current essential loads in building. These essential and emergency loads include, but are not limited to: Boilers, Heating Pumps, Sump Pumps, Fire Alarm Control Panel, Essential Food Service Loads/Offices/Equipment/Freezers, Temperature Controls to maintain building temperature above freezing, MDF cabinets, MDF/IDF Cooling, Emergency lighting, IT/Maintenance Offices, Multipurpose, Cafeteria and Exit Signs. Concrete pad included.	\$ 92,400	
Provide occupancy sensors in all spaces where lighting is not currently controlled by them.	\$ 40,400	* The current Energy Code requires occupancy sensors to be installed if any lighting system upgrades are undertaken.
Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.	\$ 40,400	* The current Energy Code requires dimmable ballasts to be installed if any lighting system upgrades are undertaken.
Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.	\$ 8,700	
Provide a lightning protection assessment for building	\$ 5,800	
Panel boards located throughout the facility are full and do not have capacity for additional circuits. Provisions should be made for additional panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.	\$ 23,100	
The existing intercom is an older switch bank system, which is in need of continual repairs according to the service company. The system should be upgraded to a newer, more reliable system, which will inherently provide numerous additional advantages that are available with today's systems.	\$ 46,200	
Subtotal Electrical System Enhancement Costs	\$ 284,100	
Low Voltage System Enhancements		
Provide a new sound system, speakers and projector for cafeteria and Gymnasium to allow spaces to be used for multiple events.	\$ 52,000	
Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.	\$ 34,700	
Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.	\$ 28,900	

MONEE EDUCATION CENTER		
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$ 11,600	
Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.	\$ 8,700	
Provide additional electrical panels, rough-ins and power distribution for future low voltage equipment, computers, etc in teaching spaces	\$ 34,700	
Subtotal Low Voltage System Enhancement Costs	\$ 170,600	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 1,301,700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS	\$ 1,324,000	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES	\$ 260,300	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	2,886,000	
TOTAL LIFE SAFETY COSTS	\$ 568,900	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 2,886,000	
GRAND TOTAL	\$ 3,454,900	

TALALA ELEMENTARY SCHOOL		
2013 LIFE SAFETY SURVEY		
Install code compliant metal handrails at both sides of both stairs.	\$ 1,20	
Provide code compliant handrails at both sides of both stage stairs.	\$ 1,20	-
Provide non-combustible code compliant stairs, handrails and landings at upper level Stage Storage rooms.	\$ 17,30	_
Provide sprinkler water service and sprinkler system for the gym stave area.	\$ 28,90	
Provide a grease trap for the 3 compartment sink.	\$ 5,80	-
Provide a reduced pressure back flow preventer valve assemble on the existing domestic water service.	\$ 7,60	_
Replace the existing domestic cold, hot and hot water return piping in the building to provide adequate water supply to the plumbing		
fixtures.	\$ 617,90	
Provide an exhaust fan for the Janitors Closet to exhaust odors.	\$ -	
Replace the existing heating piping to provide adequate hot water heating to the HVAC equipment to maintain space temperature.	\$ 485,10	
Provide a make up air unit to provide ventilation for exhaust make up to the kitchen exhaust hood.	\$ -	_
Provide emergency lighting.	\$ 2,30 \$ -	5
Provide new panelboard directories.		_
Provide light fixture at exterior man door.	\$ 2,30	
Provide proper labels for all panelboards and disconnect means.  Provide smoke detector above fire alarm control panel (FACP).		
		_
Provide emergency lighting.	\$ 1,20	
Prove new panelboard directories	\$ -	_
SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS	£ 1.171.10	
SOUTOTAL LITE SAFETT CONSTRUCTION COSTS	\$ 1,171,10	<u> </u>
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES	\$ 234,20	o
TOTAL LIFE CAFETY COCTS	¢ 1.405.00	
TOTAL LIFE SAFETY COSTS	\$ 1,405,30	
2013 PHYSICAL FACILITIES ASSESSMENT		
SITE  Remove existing paving and repave with 3 1/2" bituminous paving on 12" minimum CA-6 compacted gravel base at approximately 25% of		
area.	\$ 266,50	0
At the hard surface playgrounds remove existing paving and repave with 2 1/2" bituminous paving on 10" minimum CA-6 compacted gravel base at approximately 25% of area.	\$ 52,00	0
	\$ 20,30	
Repair / replace concrete walks		
Parking stops		
Subtotal Site Costs	\$ 344,10	0
Enhancements		
Increase parking lot capacity, add isolated student drop-off/pick-up area from busses including additional drive up from Blackhawk Drive.		
Includes additional pole mounted lighting. Cost is in addition to parking lot and drives paving work which is required with the	\$ 381,20	0
enhancement.		
Subtotal Site Enhancement Costs	\$ 381,20	0
ROOF		
Replace damaged / missing downspouts	\$ 5,30	
Subtotal Roof Costs	\$ 5,30	0
BUILDING ENVELOPE	4 40.54	
Tuck point window sill mortar joints.	\$ 10,50	
Clean all exterior masonry	\$ 1,10	
Scrape and repaint rusting lintels.	\$ 2,30	
Replace Kindergarten and Counselor's windows	\$ 55,40	0
Subtotal Building Envelope Costs	\$ 69,30	0
Enhancements  Main office and an artificiant of Main Office		
Main office secure entrance and reconfiguration of Main Office		
Subtotal Building Envelope Enhancement Costs	\$	-
BUILDING INTERIOR		
Replace water stained, cracked, damaged, and discolored acoustical ceiling tiles throughout the facility.	\$ 1,80	
Repair/replace and repaint damaged exposed tectum ceiling panels.	\$ 43,40	0
Repair and repaint cracked and damaged CMU throughout the facility.	\$ 31,20	0
Replace stained, cracked and damaged VCT flooring and transition strips in Classrooms, Corridors and Multi-Purpose Room.	\$ 173,30	
neproce stances, cracked and damaged ver moving and dianation strips in classiconits, corridors and multi-rulpose nodifi.	\$ 173,30	<u> </u>
Completely renovate all toilet rooms	\$ 321,70	0 * Cost does not include toilet and urinal fixtures. See Plumbing Sys
Wired Glass	\$ 52,50	0
Subtotal Building Interior Costs	\$ 623,90	
Enhancements	215	
Replace carpet at Learning Center and Computer Lab.	\$ 14,50	0
Subtotal Building Interior Enhancement Costs	\$ 14,50	
	, , , , , ,	<u> </u>
MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS		
HVAC System		
Expand the existing central plant DDC controls to provide direct digital temperature controls with new room thermostats, control		* Chiller DDC controls are only required if HVAC System Enhancement
valves, temperature control panel, and programming to provide better temperature control of the facility. Chiller DDC controls are	\$ 231,00	o   item #1 is selected. The cost for chiller DDC controls is included in the
not included.	]	scope of work for HVAC System Enhancement item #1.
As an upgrade to Life Safety item M-3 - provide new 2-pipe heating/future cooling piping distribution and new heating /future cooling unit		** See HVAC Systems Item #1 for DDC control cost information.
ventilators to heat and ventilate and provide exhaust make-up and outside air quantity to meet today's standards for exhaust make-up,	\$ 777,00	8 See HVAC Systems Item #1 for DDC control cost information.  See HVAC System Enhancements Item #2 for Gym RTU cost estimate.
indoor air quantity and code required outside air for classrooms. DDC controls are not included. Gym RTU in not included.		See System Emancements item#2 for dyllinto cost estillate.
Provide supplemental air conditioning in the MDF Room.	\$ 39.90	0
Subtotal HVAC System Costs	\$ 39,90	
Enhancements Enhancements	7 1,047,90	U

Provide new packaged gas fined D.X. cooling roof top unit with energy recovery and duct distribution to serve the gymnasium area.  Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.  Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.  Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.  Provide character and not moduled in the unit ventilators to modulate the outside air based on CO2 levels in the space.  \$ 5		
heating and cooling unit vendators on mery planing distribution in the building.  Provide new packaged gas first DLX. cooling roof log unit with energy recovery and dust distribution to serve the gyrmanium area.  Provide demand control vendation on the note pure the modulate in the outside air based on COJ levels in the space.  Provide demand control vendation on the note pure the modulate of the outside air based on COJ levels in the space.  Provide demand control vendation on the note pure the modulate of the outside air based on COJ levels in the space.  Provide demand control vendation on the note pure the vendator fam.  Proplica the aging tooline enhance fam.  Provide select retreatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide water treatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide water treatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide water treatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide water treatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide water treatment on knowing water service to facility to improve water quality. Reduce erosion on domestic plumbing system.  Provide in the protection syrinking system for the entire facility to comply with good engineering practice, current code compliance, and in provide in protection syrinking system for the entire facility to comply with good engineering practice, current code compliance, and in provide in protection syrinking system for the entire facility to comply with good engineering practice, current code compliance, and in provide in protection syrinking system for the entire facility to comply with good engineering practice, current code compliance, and the provide provide provide		
ineating and cooling unit versitation or new pining distributions in the building.  Provide new packaged gas fired D.X. cooling cool to put and with energy recovery and duet distribution to serve the gymnalium area.  Provided center control versitation on the new unit versitation to put the modulation the outside air based on CO3 levels in the gate.  Provide demand control versitation on the new unit versitation replacement conts.  Provide demand control versitation on the new unit versitation replacement conts.  Provide cannot control versitation on the new unit versitation replacement conts.  Provide cannot control versitation on the new unit versitation replacement conts.  Provide water treatment on incoming water service to facility to improve water quality, fleduce evolution administry plumbing system.  Provide water treatment on incoming water service to facility to improve water quality, fleduce evolution administry plumbing system.  Provide water treatment on incoming water service to facility to improve water quality, fleduce evolution administry plumbing system.  Provide water treatment on incoming water service to facility to improve water quality, fleduce evolution administry plumbing system.  Provide water treatment on incoming water service to facility to improve water quality, fleduce evolution administry plumbing system.  Provide water treatment on incoming water services and innes with code compilant water consumption flutures.  \$ 1.00 to the existing water closes and innes with code compilant water consumption flutures.  \$ 2.00 to the existing water closes and innes with code compilant water consumption flutures.  \$ 3.00 to the existing water closes and innes with code compilant water consumption flutures.  \$ 4.00 to the existing water closes and innes with code compilant water consumption flutures.  \$ 5.00 to the existing plumbing services and innes with code compilant water consumption in the code in the existing water closes and innes with code compilant water closes.  \$ 5.00 to the existin		5 10455 1 10 115 115 115 115 115 115 115 115
Provide demand control ventilation on the roof top unit to modulate the outside air based on CO2 levels in the space.  Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.  Provide demand control ventilation on the new unit ventilators to modulate the outside air based on CO2 levels in the space.  Provide was any of the space of the s	104,300 Se	See HVAC System Item #1 for building DDC controls cost estimate. ee HVAC System Item #2 for unit ventilators cost estimate and costs for eating/future cooling piping cost estimate.
This is an enhancement and not included in the unit ventilator replacement costs.  \$ 5   45   Replace the aging fine coil unit serving the main office with a new package gas freed(0.X. cooling roof top unit.  \$ 5   46   Subtoal INAC Systems Enhancement Costs  ### Enhancement Enhancement Costs  ### Enhancement Enhancement Costs  ### Enhancement Enhancement Costs  ### Enhancement E	115,500	
Substatut NAC System Enhancement Costs  Fine Protection System Costs  Fine Protection System Forth Feather Costs  Fine Protection System Forth Feather Costs  Fine Protection System Forth Feather Costs  Fine Protection System Feather Costs  Fine Protection System Costs  Fine Protection System Feather Feather System System Feather Feath	43,600	
Registre againgf fan cold unit serving the main office with a new package gas free(ID.X. cooling roof top unit	47,300	
Substoal File Protection System Enhancement Costs  Punning System  Froude water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system, filtstures, piping, etc.  Provide water treatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system, filtstures, piping, etc.  Provide facility water closest and urnals with code compliant water consumption fixtures.  \$ 1	46,200	
Plannbling System  Trovide water freatment on incoming water service to facility to improve water quality. Reduce erosion on domestic plumbing system, fastures, pipping etc.  Replace setsiting domestic water heater with new sealed combustion water heater and new circulating pump.  \$ 100		
Includes, piping, etc.  Replace chief godinestic water heater with new sealed combustion water heater and new circulating pump.  1 Integration domestic water heater with new sealed combustion water heater and new circulating pump.  2 Integration countries and combustion water heater and new circulating pump.  3 Integration of the existing water closests and urinals with code compliant water consumption fixtures.  3 Replace ceiting system Costs  3 Replace ceiting system Costs  3 Replace ceiting system costs  5 Provided fire protection synthese provided fire protection systems  5 Replace ceiting system for the entire facility to comply with good engineering practice, current code compliance, and provided fire protection systems from the entire facility to comply with good engineering practice, current code compliance, and provided fire protection systems from the entire facility to comply with good engineering practice, current code compliance, and provided fire protection systems from the entire facility and the complex systems of the facility system for the entire facility state of the systems of the facility system for the entire facility state of the systems of the facility system for the entire facility are not systems and systems, and the systems of the sys	750,900	
intures, piping, etc.  glapiace existing water closets and urinals with code compliant water consumption fixtures.  \$ 160		
Replace the existing water closets and urinals with code compliant water consumption fixtures.  \$ 666    180	107,600	
Fire Protection System Costs  Fire Protection System Costs  Frovide fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compliance, and improve safety of the facility.  Subtoal Fire Protection System Enhancement Costs  Electrical System  Replace older boslotee electrical branch panel boards with new panel boards.  \$ 199  Fire Protection System Enhancement Costs  \$ 200  The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main species and downstream in the electrical distribution. This protect electronic equipment under the stander to complete reports and existences, etc.  Fire existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main species consideration of the stander of the complete reports of the co	11,600	
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Seption of Fire protection sprinkler system for the entire facility to comply with good engineering practice, current code compilance, and proproves selectly of the facility.  Septiace older obsolete electrical branch panel boards.  \$ 999-  Septiace older obsolete electrical branch panel boards with new panel boards.  \$ 29-  The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electrical granch panel boards, short duration, electrical spikes. This equipment is installed at the main protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main protects and distribution. This protects lighting ballests, variable frequency drives, computers or students and teachers, exc. current euclacational curriculum orten uses extensive electronics, such as vince equipment of additional "computer" power at the underly controlled the protection (spike) and computer in the student control of the student distribution, this would include one (1) CAT's cable from the student distribution of additional electrical capacity for future needs. Four panels added.  So a consideration of the student distribution of additional electrical capacity for future needs. Four panels added.  So a consideration panel boards located throughout the facility to allow for additional electrical capacity for future needs. Four panels added.  So a consideration of the student of the student in the cycle with new receptades.  Seplace esting electrical system Costs  \$ 100 control of the student in the student in the cycle with new switches.  \$ 100 control of the student in building that have outlived their life cycle with new swit		
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Replace existing light switches in building that have outlived their life cycle with new switches.  \$ 11  Provide a new natural gas generator to backup all emergency and current essential loads in building. These essential and emergency loads include, but are not limited to: Boilers, Heating Pumps, Sump Pumps, Fire Alarm Control Panel, Sesential Food Service Loads/Offices/Equipment/Freezers, Temperature Controls to maintain building temperature above freezing, MDF cabinets, IDF cabinets, MDF/IDF Cooling, Emergency lighting, IT/Maintenance Offices, Multipurpose, Cafeteria and Exit Signs. Concrete pad included.  Provide occupancy sensors in all occupied spaces where lighting is not currently controlled by them.  \$ 65  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  \$ 66  Subtotal Electrical System Enhancement Costs  \$ 39  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 20  Provide an ew security camera system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a passwoord, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 112  Subtotal Low Voltage Enhancement Costs  \$ 112  \$ 2,466  Subtotal Low Voltage Enhancement Costs  \$ 115  \$ 1,651	23,100	
Provide a new natural gas generator to backup all emergency and current essential loads in building. These essential and emergency loads include, but are not limited to: Boilers, Heating Pumps, Sump Pumps, Fire Alarm Control Panel, Essential Food Service Loads/Offices/Equipment/Freezers, Temperature Controls to maintain building temperature above freezing, MDF cabinets, IDF cabinets, MDF/IDF Cooling, Emergency lighting, IT/Maintenance Offices, Multipurpose, Cafeteria and Exit Signs. Concrete pad included.  Provide occupancy sensors in all occupied spaces where lighting is not currently controlled by them.  \$ 65  Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  \$ 50  Provide a lightning protection assessment for building  \$ 50  Subtotal Electrical System Enhancement Costs  \$ 29  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 20  Provide an lP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 104  \$	11,600	
Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.  Replace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  \$ 88  Provide a lightning protection assessment for building  \$ 59  Subtotal Electrical System Enhancement Costs  \$ 29  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 29  Provide an ew security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 10  \$ 10  \$ 20  Subtotal Low Voltage Enhancement Costs  \$ 11  Subtotal Physical Facilities Assessment PROFESSIONAL FEES & CONTINGENCIES  \$ 22  \$ 2460  \$ 22  Subtotal Physical Facilities Assessment PROFESSIONAL FEES & CONTINGENCIES	104,000	
Assprace older emergency lighting and exit signs that have outlived their life cycle with new emergency lights and exit signs.  \$ 290		The current Energy Code requires occupancy sensors to be installed if ny lighting system upgrades are undertaken.
Provide a lightning protection assessment for building  Subtotal Electrical System Enhancement Costs  \$ 29:  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28:  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 29:  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40:  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460  \$ 165  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 22  \$ 29  \$ 29  \$ 29  \$ 29  \$ 29  \$ 20  \$ 20  \$ 20  \$ 21  \$ 20  \$ 21  \$ 20  \$ 21  \$ 21  \$ 21  \$ 21  \$ 21  \$ 22  \$ 22  \$ 22  \$ 22  \$ 23  \$ 24  \$ 25  \$ 24  \$ 25  \$ 26  \$ 26  \$ 27  \$ 2		The current Energy Code requires dimmable ballasts to be installed if ny lighting system upgrades are undertaken.
Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  Expand existing MDF and IDF cabinets and battery power to accommodate future secundate for multiple events.  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 29  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 50  EXEMPTION AND AND AND AND AND AND AND AND AND AN	8,700	
Subtotal Electrical System Enhancement Costs  Low Voltage System  Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  Expand existing MDF and IDF cabinets and battery power to accommodate future secundary needs.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future secondary needs.  \$ 29  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112  Subtotal Low Voltage Enhancement Costs  \$ 2,460  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 2,460  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822		
Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 2:  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460  \$ 165  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	5,800	
Enhancements  Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28  Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 27  Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40  Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 28  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460  \$ 112  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	291,800	
Provide a new sound system, speakers and projector for Gymnasium to allow spaces to be used for multiple events.  \$ 28 Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 29 Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40 Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 112 Subtotal Low Voltage Enhancement Costs  \$ 113 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 22 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 22 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES		
Expand existing MDF and IDF cabinets and battery power to accommodate future technology needs.  \$ 25 Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40 Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  \$ 50 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 1,651 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822		
Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40 Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 1,651 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	28,900	
Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.  \$ 40 Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other treaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 1,651 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	23,100	
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.  Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  \$ 112  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  \$ 2,460  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  \$ 1,651  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	40,400	
Provide additional surface raceway and cable management accessories so that low voltage cabling is neatly and properly routed to low voltage equipment.  Subtotal Low Voltage Enhancement Costs  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES  \$ 822	11,600	
Subtotal Low Voltage Enhancement Costs \$ 113 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS \$ 1,651 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES \$ 822	8 700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS \$ 2,460 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS \$ 1,651 SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES \$ 822	8,700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS \$ 1,651  SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES \$ 822	112,700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES \$ 822	60,800	
	51,400	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS \$ 4,934,	22,440	
TOTAL LIFE CASETY COSTS		
TOTAL LIFE SAFETY COSTS \$ 1,405,	05,300	
	34,640	
GRAND TOTAL \$ 6,339,9	1,940	

CDETE MONEE MIDDLE COLLOCA	
CRETE-MONEE MIDDLE SCHOOL	
2013 LIFE SAFETY SURVEY	
	\$ 5,300
Frovide Continuous Code Compilant metal mandrail as required.	\$ 3,300
Provide rated enclosure walls extending up to the underside of the deck with rated door and frame. Seal all penetrations in rated construction as required to maintain separation between MDF / Storage room and classroom.	\$ -
· -	\$ -
Provide a Plaque indicating the main gas shut off valve.	\$ -
Provide accurate directory.	\$ -
Provide label for panelboards.	\$ -
SUBTOTAL LIFE SAFETY CONSTRUCTION COSTS	\$ 8,600
SUBTOTAL LIFE SAFETY PROFESSIONAL FEES & CONTINGENCIES	\$ 1,700
TOTAL LIFE SAFETY COSTS	\$ 10,300
2013 PHYSICAL FACILITIES ASSESSMENT	
SITE	
Remove existing deteriorated paving and repave with 3 1/2" bituminous paving. At approximately 25% of the area, replace existing base with 12" minimum	
CA-6 compacted gravel base.	\$ -
Subtotal Site Costs	\$ -
BUILDING ENVELOPE	
Scrape and repairit existing steer window and door initess	\$ 2,300
Replace of oken willow screens at exterior willows in Kins. 10/ & 152E.	<u> </u>
4	\$ 34,700 \$ 46,200
Repair damaged exposed concrete foundation walls along entire perimeter of the building  General repair and repaint CMU walls through out the building at the interior face of exterior walls and window jambs and sills in Rms. 100, 107,	\$ 46,200
108, 116, 117, 118, 120, 121, 123, 127, 132D & 145.	\$ -
At the exterior windows / lintels at Classrooms 116, 118 & 120, open up walls to further inspect existing lintels and flashing to determine cause and extent of damage at these openings. Repair as necessary and close wall.	\$ 17,300
	\$ -
	\$ 10,500
	\$ 111,000
BUILDING INTERIOR	
Replace door, frame and hardware at interior doors in Rms. 100, 104, 114, 119, 122, 124, 131A, 138A, 163, 165, 201, 202D, 204D & 204E.	\$ -
	\$ -
instail proper stail deads and nosings actification stains 1504, 155, 104, 2000 M. 2010	\$ 4,100 \$ 2,300
Replace missing / unitaged wood base in dynnasidin Min. 201.	
	\$ 8,700 \$ 5,900
neplace suspended tollet room ceilings at Kins. 122, 124, 103, 2008, 2006.	\$ 10,500
	\$ 61,800
Circuit and detailment on the CMU will in the unus Change Day 2000 should be advantable united and annitated to	\$ 20,100
further deterioration.	\$ 3,900
neplace damaged ver nooning and tabbet base in twist too, in, its, ista, isyb	\$ -
neplace ceranic tile noors in rollecturis. 122, 124, 130, 139, 104	\$ -
nepace stoken room sign degrinmasum entunee	\$ 52,500
	\$ 169,800
Enhancements	
	\$ 2,900
	\$ 10,500
Replace worn / stained carpet and rubber base in Rms. 131, 132, 145, 152, 157 & 223	\$ 10,500
Repair cracks in concrete floor slab in Rms. 111, 115 & 157.	\$ 15,900
Repaint all exposed, gyp. board ceilings, and structure in finished areas, throughout the facility	\$ 43,900
Repair general cracking at upper level concrete floor in Gymnasium 201 and Storage Rms. 203A & 203B.	\$ 13,900
4. 9 9	\$ 2,900
, , , , ,	
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.	\$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal tollet partition in Tollet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.	\$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.  Subtotal Building Interior Enhancement Costs	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System  Provide new Fan powered vav boxes, modify exisiting ductwork and piping, additional power, and new controls to provide new VAV Boxes for each	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System  Provide new Fan powered vav boxes, modify exisiting ductwork and piping, additional power, and new controls to provide new VAV Boxes for each individual class room to provide control for 20 classrooms. As an alternate: Expand the existing central plant DDC controls to provide direct digital temperature controls with new wireless averaging room thermostats in 20 class rooms to control to VAV boxes. Provide additional programming for existing to VAV boxes that serve the 20 classrooms, and transfer the existing to VAV boxes from the Sebe system to the Johnson Controls system	\$ - \$ -
Replace missing / damaged rubber base at upper level Gymnasium concrete floor and in upper level Storage Rms. 203A & 203B.  Repair and repaint metal toilet partition in Toilet Rooms 122, 124, 163 & 164  Replace damaged chairs in Little Theater Rm. 131 (22 total chairs at the time of the walk through)  Replace damaged / missing acoustical wall panels in Little Theater Rm. 131.  Subtotal Building Interior Enhancement Costs  MECHANICAL, ELECTRICAL AND PLUMBING SYSTEMS  HVAC System  Provide new Fan powered vav boxes, modify exisiting ductwork and piping, additional power, and new controls to provide new VAV Boxes for each individual class room to provide control for 20 classrooms. As an alternate: Expand the existing central plant DDC controls to provide direct digital temperature controls with new wireless averaging room thermostats in 20 class rooms to control to VaV boxes. Provide additional programming for	\$ - \$ -

CRETE-MONEE MIDDLE SCHOOL		
Provide supplemental air conditioning in the MDF Room.	\$ 42,000	
Subtotal HVAC System Costs	\$ 1,370,300	
Enhancements		
Replace aging toilet exhaust fans.	\$ 94,500	
Subtotal HVAC System Enhancement Costs	\$ 94,500	
Plumbing System		
Replace the existing 28 toilet room sinks faucets with new 2 button metered faucets.	\$ 21,000	
Replace domestic hot, cold and hot water recirculating piping - plumbing fixtures not included	\$ 871,500	
Subtotal Plumbing System Costs	\$ 892,500	
Electrical System		
The existing electrical distribution does not have Transient Voltage Surge Suppression (TVSS) equipment, which is utilized to protect electronic equipment in today's facility from powerful, short duration, electrical spikes. This equipment is installed at the main service and downstream in the electrical distribution. This protects lighting ballasts, variable frequency drives, computers, etc.	\$ 23,100	
Replace older obsolete electrical branch panel boards with new panel boards.	\$ 92,400	
Subtotal Electrical System Costs	\$ 115,500	
Enhancements		
Test and provide new emergency light fixtures and exist signs.	\$ 13,900	
Provide occupancy sensors in all spaces where lighting is not currently controlled by them.	\$ 115,500	
Provide dimmable ballasts and daylight sensors to implement daylight harvesting to conserve energy when daylight available in classrooms and offices.	\$ 115,500	
Provide a lightning protection assessment for building	\$ 11,600	
Subtotal Electrical System Enhancement Costs	\$ 256,500	
Low Voltage System		
Enhancements		
Provide a new sound system, speakers and projector for Multi-purpose room and Gymnasium to allow spaces to be used for multiple events.	\$ 57,800	
Provide a new security camera system with new DVR head end to monitor the building entrances and the common spaces.	\$ 57,800	
Provide an IP based video retrieval system that will allow video and other streaming media to be downloaded to the cloud and retrieved by personnel via the LAN. Teachers and other staff, that will be provided with a password, will be able to retrieve video and other streaming media to utilize for educational purposes. The system consists of a server and connection to the LAN.	\$ 11,600	
Subtotal Low Voltage System Enhancement Costs	\$ 127,200	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 2,659,100	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT ENHANCEMENT COSTS	\$ 578,700	
SUBTOTAL PHYSICAL FACILITIES ASSESSMENT PROFESSIONAL FEES & CONTINGENCIES	\$ 531,800	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	3,190,900	
TOTAL LIFE SAFETY COSTS	\$ 10,300	
TOTAL PHYSICAL FACILITIES ASSESSMENT COSTS	\$ 3,190,900	
GRAND TOTAL	\$ 3,201,200	