



January 31, 2022

Helena Public Schools
Stacy Collette
1325 Poplar Street
Helena, MT 59601

RE: Deferred Maintenance Review
Helena Public Schools
Final Report

Dear Ms. Collette:

Thank you for the opportunity to provide the attached Deferred Maintenance Report for Helena Public Schools. This report includes 9 Elementary Schools, 2 Middle Schools, 3 High Schools and 5 District Support Buildings.

The report includes the following scope of services for each school.

SCOPE: Narrative and estimates of probable costs for the following categories

- Mechanical Equipment
- Energy Management Systems
- Plumbing Fixtures
- Windows and Doors
- Building Envelope Repair
- ADA Deficiencies
- Electrical Systems
- Electrical Systems – special systems including fire alarm
- Lighting retrofits
- Roof Replacements from the 2020 Roof Assessment adjusted to current market.
- Parking, playground surfaces (not playground equipment), and Sidewalk repair.

*Asbestos abatement and other hazardous material costs are not included but should be anticipated with all projects within the building envelope.

Hulteng CCM, Inc.

6417 Trade Center Avenue Billings, Montana 59101 ▪ 1210 West Kent Avenue Missoula, Montana 59802



*The Roof Replacements Assessments from Cushing Terrell is a standalone document that is in addition to this report, and works hand in hand with this report.

This report consists of 2 documents, a Word document that addresses existing conditions and recommendations with pictures as appropriate. The excel document includes a high-level opinion of cost and each system is assigned a priority of Low, Medium or High. High priority is before 5 years, Medium priority is 5 -10 years, and a low priority is over 10 years. This information provides you with a detailed list of needs that need to be addressed to provide a warm, dry, safe and accessible schools for the Helena community.

It has been a pleasure to work with you and the building maintenance staff while developing the attached reports.

Sincerely,
Hulteng CCM, Inc.

A handwritten signature in blue ink that reads 'Shane Swandal'.

Shane Swandal

Hulteng CCM, Inc.

Helena School District Deferred Maintenance

Report
January 21, 2022



	PRIORITY			TOTAL
	HIGH	MEDIUM	LOW	
ELEMENTARY SCHOOLS				
Broadwater Elementary	\$ 245,601.00	\$ 1,446,710.00	\$ 204,700.00	\$ 1,897,011.00
Four Georgians	\$ 450,175.00	\$ 902,979.00	\$ 240,500.00	\$ 1,593,654.00
Hawthorne	\$ 322,576.00	\$ 1,187,951.00	\$ 1,067,789.00	\$ 2,578,316.00
Jefferson	\$ 152,000.00	\$ 454,809.00	\$ 237,000.00	\$ 843,809.00
Kessler	\$ 424,588.00	\$ 535,517.00	\$ 321,870.00	\$ 1,281,975.00
Ray Bjork	\$ 313,401.00	\$ 966,714.00	\$ 534,813.00	\$ 1,814,928.00
Rossiter	\$ 606,400.00	\$ 1,312,045.00	\$ 1,204,011.00	\$ 3,122,456.00
Smith	\$ 1,688,390.00	\$ 1,120,670.00	\$ 212,000.00	\$ 3,021,060.00
Warren	\$ 714,399.00	\$ 1,533,035.00	\$ 108,131.00	\$ 2,355,565.00
TOTAL ELEMENTARY	\$ 4,917,530.00	\$ 9,460,430.00	\$ 4,130,814.00	\$ 18,508,774.00
MIDDLE SCHOOLS				
CR Anderson	\$ 2,412,777.00	\$ 3,290,557.00	\$ 565,395.00	\$ 6,268,729.00
Helena Middle School	\$ 1,918,422.00	\$ 2,977,633.00	\$ 217,251.00	\$ 5,113,306.00
TOTAL MIDDLE SCHOOLS	\$ 4,331,199.00	\$ 6,268,190.00	\$ 782,646.00	\$ 11,382,035.00
HIGH SCHOOLS				
Helena High	\$ 9,733,026.00	\$ 5,841,549.00	\$ 1,101,093.00	\$ 16,675,668.00
Capital	\$ 3,763,196.00	\$ 4,492,036.00	\$ 1,770,515.00	\$ 10,025,747.00
Front Street Learning	\$ 710,520.00	\$ 406,273.00	\$ 89,348.00	\$ 1,206,141.00
TOTAL HIGH SCHOOLS	\$ 14,206,742.00	\$ 10,739,858.00	\$ 2,960,956.00	\$ 27,907,556.00
JOINT USE SUPPORT FACILITIES				
May Butler	\$ 291,506.00	\$ 281,300.00	\$ 27,400.00	\$ 600,206.00
Maintenance Building	\$ 45,000.00	\$ 182,950.00	\$ -	\$ 227,950.00
Lincoln	\$ 99,775.00	\$ 220,028.00	\$ 15,000.00	\$ 334,803.00
7th Ave Gym	\$ 1,044,623.00	\$ 490,211.00	\$ 225,436.00	\$ 1,760,270.00
Vigilante Stadium	\$ 15,000.00	\$ 26,500.00	\$ 97,180.00	\$ 138,680.00
TOTAL JOINT USE SUPPORT FACILITIES	\$ 1,495,904.00	\$ 1,200,989.00	\$ 365,016.00	\$ 3,061,909.00
SUB TOTAL	\$ 24,951,375.00	\$ 27,669,467.00	\$ 8,239,432.00	\$ 60,860,274.00
General Contractors Gen, O&P (18%)	\$ 4,491,247.50	\$ 4,980,504.06	\$ 1,483,097.76	\$ 10,954,849.32
Gross Receipt Tax (1%)	\$ 294,426.23	\$ 326,499.71	\$ 97,225.30	\$ 718,151.23
Design Fees (10%)	\$ 2,973,704.87	\$ 3,297,647.08	\$ 981,975.51	\$ 7,253,327.46
Owners Contingency (10%)	\$ 2,944,262.25	\$ 3,264,997.11	\$ 972,252.98	\$ 7,181,512.33
Hazardous Material (2%)	\$ 588,852.45	\$ 652,999.42	\$ 194,450.60	\$ 1,436,302.47
GRAND TOTAL PROJECT COST	\$ 36,243,868.30	\$ 40,192,114.37	\$ 11,968,434.13	\$ 88,404,416.81

Broadwater Elementary School

Low Priority Items Subtotal:	\$	204,700.00
Medium Priority Items Subtotal:	\$	1,446,710.00
High Priority Items Subtotal:	\$	245,601.00
Total Estimate:	\$	1,897,011.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 44,000.00	
Entry 6 - Stairs to Playground.	Remove and replace existing stairs including handrail.	\$21,000	High
Entry 5 - New sidewalk	Replace existing sidewalk that has significant surface damage	\$13,000	Medium
Playground asphalt surfaces	Repair cracks, potholes and seal coat	\$10,000	Medium
HVAC System	Sub Total	\$ 992,000.00	
Heating	Hot Water Heat, Burham Cast Iron Sectional Boiler Model 4FHW.154A with Power Flame Buner Model C2-G-20B and Lochinvar Seasonal High Efficiency Boiler Model KBN 800.	\$ 225,000.00	Medium
	Armstrong Circulation Pumps Model 4030	\$ 11,500.00	Low
	Abandoned Steam Boiler is the original basement - should be removed	\$ 8,500.00	Low
Ventilating	Unit Ventilators in Classrooms (3 separate vintages)	\$ 225,000.00	Medium
	Central Library Space	\$ 52,000.00	Medium
	Gymnasium Trane Mult-Zone Climate Changer	\$ 85,000.00	Medium
	Exterior Offices equipped with fintube or cabinet heaters - no ventilation other than operable windows	\$ 45,000.00	High
	Interior Offices equipped with exhaust fan integrated with lighting	\$ 25,000.00	Low
Cooling	None Installed in the building	\$ -	No Action
	Building A/C	\$ 315,000.00	Medium
Plumbing System	Sub Total	\$ 93,000.00	
Fixtures	Public Toilet Rooms recently revised by HPS staff	\$ 35,000.00	Low
	Staff Toilet older fixtures in Fair Condition	\$ 6,000.00	Low
	Domestic water service has been updated to current requirements		No Action
	Rheem water heater with circulation pump in original boiler room - Installed 2018		No Action
	Water Heater not equipped with tempering valve	\$ 2,500.00	High
	3-Comp Sink not equipped with grease trap	\$ 4,500.00	High
Supply/Waste Piping	Cast Iron Waste Piping - Fair Condition		Low
	Copper Domestic Water Piping - Fair Condition	\$ 45,000.00	Low
Fire Suppression System	Sub Total	\$ -	
	Fire Service Provided for lower level only		No Action
Control System	Sub Total	\$ 85,000.00	
Building Service	DDC Controls FICO in Equipment Rooms	\$ 11,500.00	Low
	Pneumatic Controls for Classroom temperature Control. Control updated should only be completed as portion of equipment replacement.	\$ 54,500.00	High
	Air Compressor - Older	\$ 6,500.00	Medium
	System graphics completed for DDC Systems - Extend system as portion of future work	\$ 12,500.00	Medium

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 376,171.00	
Building Service	Upgrade service from 120/240 volt, 1-phase to 120/208 volt, 3-phase. Install new 600 amp outdoor main distribution board to accommodate heating, ventilating and future air-conditioning equipment. Reconnect existing 1-phase distribution board in	\$ 26,100.00	High
	Concrete transformer pad and conduit stubs for utility company primary and secondary conductors	\$ 1,181.00	High
	Utility company charges. New transformer, underground primary & secondary.	\$ 12,000.00	High
	Install protective bollards around utility company transformer near driveway	\$ 2,820.00	High
Distribution	Install new 400 amp 3-phase panelboard in Gymnasium Mechanical Room to accommodate heating upgrades	\$ 16,375.00	Medium
	Add three 3-phase panelboards in classroom wings, for heating, ventilating and additional receptacle circuits	\$ 33,150.00	Medium
	Replace existing obsolete panelboards	\$ 6,100.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 71,600.00	Medium
	Power Connections for Boilers	\$ 5,000.00	Medium
	Power Connections for Circulation Pumps	\$ 1,000.00	Low
	Power Connections for Unit Ventilators in Classrooms	\$ 20,000.00	Medium
	Power Connection for Central Library Space Unit Vent	\$ 2,000.00	Medium
	Power Connection for Gymnasium Multi-Zone Unit	\$ 4,000.00	Medium
	Power Connections for Unit Ventilators in Exterior Offices	\$ 5,000.00	High
	Power Connection for Interior Offices exhaust fans integrated with lighting	\$ 1,200.00	Low
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 102,245.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 16,400.00	Medium
Voice/Data	Add integrated A/V system to classrooms and library. This system was a part of the Safety/Security work		No Action
Safety & Security System	Sub Total	\$ 160,840.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 145,840.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units with battery backup	\$ 5,000.00	Medium
	Replace older emergency egress lighting units with new LED style and battery backup.	\$ 5,000.00	Medium
	Add exterior emergency egress lighting	\$ 5,000.00	Medium

Systems	Description	Cost	Priority
Windows	Sub Total	\$ 63,000.00	
Vinyl Windows	Replace all of the vinyl windows with new thermally broken aluminum frames and double pane low-e glazing.	\$ 60,000.00	Low
Glass Block	Remove and replace the glass block. I would be recommended to use a thermally broken window with double pane low-e glazing in place of new glass block. As this is a restroom there would need to be a window film installed so the glazing is translucent.	\$ 3,000.00	Medium
Doors	Sub Total	\$ 46,000.00	
Exterior Doors	Replace the half dozen old/wood doors with new insulated galvanized hollow metal doors and frames.	\$ 15,000.00	High
Interior Doors	Most of the interior doors have knobs and not handles. These need to be upgraded with lever sets.	\$ 31,000.00	High
Exterior Cladding	Sub Total	\$ 20,000.00	
Stucco Cladding	Touch up the exterior stucco where cracking or damaged.	\$ 5,000.00	High
Exterior Stair and Guard Railing	The concrete stair structure should be repoured and a new handrailing should be installed. This fall protection is essential to the life safety of the school aged children.	\$ 15,000.00	High
Accessibility	Sub Total	\$ 17,000.00	
Entry Ramp and Stairs	The ADA ramp and stairs does not have an acceptable handrailing and the concrete is beyond repair	\$ 12,000.00	Medium
Interior Stair Railing	Replace the existing railing with a Guard Railing 42" tall and that will not allow a 4 inch sphere from passing through.	\$ 5,000.00	High

Four Georgians Elementary School

Low Priority Items Subtotal:	\$	240,500.00
Medium Priority Items Subtotal:	\$	902,979.00
High Priority Items Subtotal:	\$	450,175.00
Total Estimate:	\$	1,593,654.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 119,000.00	
Brick pavers are damaged and holding water and ice	Replace brick pavers in front of school with concrete	\$ 48,000.00	High
Playground fence have exposed concrete posts	Install edge and fill with appropriate material	\$ 9,000.00	High
minor concrete and asphalt cracks	Repair asphalt cracks and seal coat	\$ 62,000.00	Low
	Replace concrete in back of school		
HVAC System	Sub Total	\$ 549,200.00	
Heating	Hot Water Heat, Dual Lochinvar Crest Model FBN2001 . Units Installed in 2019		No Action
	Grundfos Circulation Pumps CR Units for Primary Loop		No Action
	Boiler Pumps Grundfos Magna 3 in-line Unit		No Action
Ventilating	Unit Ventilators in Classrooms (Original to Building)	\$ 240,000.00	Medium
	Central building Spaces, Ceiling mounted unit with plenum return. (4-Total Units)	\$ 112,500.00	Medium
	Gymnasium Trane Climate Changer in Equipment (Boiler) Room	\$ 85,000.00	Medium
	Exterior Offices equipped with fintube - no ventilation other than operable windows	\$ 42,500.00	Medium
	Roof Exhaust fans show significant hail damage	\$ 20,000.00	High
	Kitchen Hood insufficient to cover installed kitchen Equipment	\$ 40,000.00	High
	Kitchen Dishwasher not equipped with Hood	\$ 9,200.00	High
Cooling	Ductless Split System Units in progress of being installed		No Action
Plumbing System	Sub Total	\$ 85,500.00	
Fixtures	Public Toilet Rooms in good condition, wall hung water closets show water damage at contact with masonry wall connection	\$ 40,000.00	Medium
	Staff Toilet in Fair Condition	\$ 4,500.00	Low
	Domestic water service has been updated to current requirements		No Action
	Rheem water heater with circulation pump in original boiler room - Installed 2016 Model G100-200	\$ 12,500.00	Low
	Water Heater not equipped with Tempering Valve	\$ 3,500.00	High
Supply/Waste Piping	PVC Waste Piping - Fair Condition	\$ 12,500.00	Low
	Copper Domestic Water Piping - Fair Condition	\$ 12,500.00	Low
Fire Suppression System	Sub Total	\$ 185,000.00	
	No Fire Protection Installed	\$ 185,000.00	High
Control System	Sub Total	\$ 115,000.00	
Building Service	DDC Controls FICO in Equipment Rooms	\$ 35,000.00	Low
	Pneumatic Controls for Classroom temperature Control. Control updated should only be completed as portion of equipment replacement.	\$ 62,000.00	High
	Air Compressor - Older	\$ 3,500.00	Medium
	System graphics completed for DDC Systems - Extend system as portion of future work	\$ 14,500.00	Low

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 423,954.00	
Building Service	Install new outdoor main disconnect switch and increase capacity to allow for future Air Conditioning equipment	\$ 18,150.00	High
Distribution	Install new Main Distribution Board in Mezzanine Mechanical Room	\$ 19,825.00	High
	Add four 3-phase panelboards in classroom wings, for heating, ventilating and additional receptacle circuits	\$ 44,200.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 93,080.00	Medium
	Power Connections for Unit Ventilators in Classrooms	\$ 26,000.00	Medium
	Power Connections for (4) Central building Ceiling mounted units	\$ 8,000.00	Medium
	Power Connection for Gymnasium Climate Changer in Equipment (Boiler) Room	\$ 5,000.00	Medium
	Power Connections for Unit Ventilators in Exterior Offices	\$ 5,000.00	Medium
	Power Connections for Roof Exhaust fans	\$ 4,000.00	High
	Power & Fire Alarm Connections to Kitchen Hood & equipment shutdown.	\$ 15,000.00	High
	Power Connections Kitchen Dishwasher	\$ 2,500.00	High
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 155,799.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 27,400.00	Medium
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security System	Sub Total	\$ 10,000.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Building has Fire Alarm System with Voice Evacuation		No Action
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 5,000.00	Medium
	Building has a central battery system for emergency egress lighting backup		No Action
	Add exterior egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ -	
No Work	Currently there are no recommendations.	\$ -	NA
Doors	Sub Total	\$ 17,000.00	
Exterior Doors	Replace the few exterior doors that are deteriorated.	\$ 5,000.00	High
Interior Doors Hardware	Replace the knobs in the school with new lever sets.	\$ 3,000.00	Low
Interior Fire Doors	Replace hallway fire doors.	\$ 9,000.00	High
Exterior Cladding	Sub Total	\$ 18,000.00	
Masonry	Repoint mortar joints as needed. Replace all the control joint sealant.	\$ 5,000.00	Medium
Fascia and Soffit	Replace the Fascia and Soffit material. To keep it uniformed we would recommend replacing the entire building	\$ 13,000.00	Low
Accessibility	Sub Total	\$ 71,000.00	
Parking	Replace the sidewalk from the ADA parking that is over 2%	\$ 7,000.00	Low
Restrooms	Renovate two (2) of the existing restrooms.	\$ 64,000.00	Low

Hawthorne Elementary School

Low Priority Items Subtotal:	\$	1,067,789.00
Medium Priority Items Subtotal:	\$	1,187,951.00
High Priority Items Subtotal:	\$	322,576.00
Total Estimate:	\$	2,578,316.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 44,000.00	
Playground Asphalt Surface	Repair cracks, repair potholes and sealcoat entire area	\$ 15,000.00	Medium
Cracked and uneven concrete	Replace concrete that is cracked and uneven	\$ 29,000.00	Medium
HVAC System	Sub Total	\$ 812,700.00	
Heating	Hot Water Heat, (3) Burham Cast Iron Sectional Boiler Model 810B-WI 600 MBH input. Installed date 1991.	\$ 225,000.00	Medium
	Armstrong Base Mounted Pumps Model 826Y	\$ 11,500.00	Medium
	Entry Floor Mounted Cabinet Heaters	\$ 9,600.00	Low
	Radiant slab snow melt system installed in new ADA building access ramp. Grundfos circulation pumps. Snow melt separated from heating system with flat plate heat exchanger.		No Action
	Radiant Slab heat loops circulated with grundfos circ pumps installed in cabinets located in office space.		No Action
	Small number of stained ceiling tiles from glycol leaks.	\$ 15,000.00	Medium
	Abandoned Cleaver Brooks Boiler steam boiler with corresponding condensate receiver in basement of Library Building.	\$ 9,500.00	Low
Ventilating	Unit Ventilators in Classrooms (2 separate vintages)	\$ 96,000.00	Medium
	Ceiling Mounted Dunham Bush Cabinet Heaters Interior Offices	\$ 4,600.00	Low
	Ceiling Mounted Unit Ventilators in End Classrooms in Ceiling Soffits	\$ 45,000.00	Medium
	Gymnasium/Cafeteria (2) Ceiling Mounts Unit Ventilators with Floor Mounted cabinet heaters for aux heat.	\$ 51,500.00	Medium
	Exterior Offices equipped with fintube or cabinet heaters - no ventilation other than operable windows.	\$ 35,000.00	Low
	Interior Offices equipped with exhaust fan integrated with lighting		No Action
Cooling	None Installed in Building	\$ 310,000.00	Medium
Plumbing System	Sub Total	\$ 54,500.00	
Fixtures	Public Toilet Rooms recently revised by HPS staff		No Action
	Laundry room installed in old locker room space		No Action
	Domestic water service has been updated to current requirements		No Action
	Office Toilet Renovated but has raised wood floor	\$ 8,500.00	Low
	Library Building Toilets recently Renovated by HPS Staff		No Action
	Bradford White Model RG250H6N water heater with circulation pump in original boiler room - Installed since 2017	\$ 8,500.00	Low
Supply/Waste Piping	Cast Iron Waste Piping - Fair Condition	\$ 12,500.00	Low
	Copper Domestic Water Piping - Fair Condition	\$ 25,000.00	Low
Fire Suppression System	Sub Total	\$ 165,000.00	
	No Fire Protection Installed	\$ 165,000.00	High

Systems	Description	Cost	Priority
Control System	Sub Total	\$ 44,600.00	
Building Service	Tekmar boiler sequencer has replaced original Burnham unit	\$ 9,600.00	Medium
	Pneumatic Controls for Classroom temperature Control. Control updated should only be completed as portion of equipment replacement.	\$ 31,500.00	High
	Air Compressor - Older	\$ 3,500.00	Medium
Electrical System	Sub Total	\$ 288,635.00	
Building Service	Upgrade service from 120/240 volt, 1-phase to 120/208 volt, 3-phase. Install new 600 amp outdoor main distribution board to accommodate heating, ventilating and future air-conditioning equipment.	\$ 26,100.00	High
	Concrete transformer pad and conduit stubs for utility company primary and secondary conductors	\$ 1,181.00	High
	Utility company charges. New transformer, underground primary & secondary. Nearest 3-phase could be several blocks away	\$ 20,000.00	High
Distribution	Install new 400 amp 3-phase panelboard in Attic to accommodate future Air Conditioning upgrades	\$ 14,175.00	Medium
	Add two panelboards for additional classroom receptacle circuits	\$ 12,750.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 50,120.00	Medium
	Power Connections for Boilers	\$ 5,000.00	Medium
	Power Connections for Circulation Pumps	\$ 1,000.00	Medium
	Power Connections for Entry Floor Mounted Cabinet Heaters	\$ 1,500.00	Low
	Power Connections for Unit Ventilators in Classrooms	\$ 14,000.00	Medium
	Power Connections for Ceiling Mounted Cabinet Heaters Interior Offices	\$ 1,000.00	Low
	Power Connections for Ceiling Mounted Unit Ventilators in End Classrooms in Ceiling Soffits	\$ 1,000.00	Medium
	Power Connections for (2) Gymnasium/Cafeteria Ceiling Mount Unit Ventilators & Floor Mounted cabinet heaters for aux heat.	\$ 6,000.00	Medium
	Power Connections for Unit Ventilators in Exterior Offices	\$ 5,000.00	Low
	Power Connections for Future Building A/C	\$ 50,000.00	Medium
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 75,670.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 9,420.00	Medium
Voice/Data	Add integrated A/V system to classrooms and library. This system was a part of the Safety/Security work at 10 other elementary schools	\$ 42,000.00	Low

Systems	Description	Cost	Priority
Safety & Security System	Sub Total	\$ 116,116.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 105,116.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units with battery backup	\$ 5,000.00	Medium
	Replace older emergency egress lighting units with new LED style and battery backup.	\$ 3,000.00	Medium
	Add exterior emergency egress lighting	\$ 3,000.00	Medium
Windows	Sub Total	\$ 35,600.00	
Main Building	It is recommended that bug screens be added to all the operable windows in the school to help with the ability to get fresh air and reduce the introduction of pests.	\$ 14,000.00	High
Library Outbuilding	The library windows should eventually be replaced but with the relative conditions this is not a high priority need. The exterior windows should be on the list of touch painting every three to five years.	\$ 21,600.00	Medium
Music Outbuilding	While these windows need to be replaced, the entire building is at the end of its useful life and is in need of being replaced. I would recommend replacing the entire structure instead of putting a lot more money into the existing maintenance.	See Exterior Cladding	Low
Doors	Sub Total	\$ 92,000.00	
Main Building	Interior Doors: It is recommended that the doors be replaced at some point.	\$ 75,000.00	Low
	Exterior Doors: The (3) old doors requiring a lot of maintenance should be replaced soon.	\$ 8,000.00	High
Library Outbuilding	Interior Doors: It is recommended that the doors be replaced at some point.	\$ 4,000.00	Low
	Exterior Doors: The (1) old door should be replaced when the rest of the exterior doors do.	\$ 5,000.00	High
Music Outbuilding	I would recommend replacing the entire structure instead of putting a lot more money into the existing maintenance.	See Windows	Low
Exterior Cladding	Sub Total	\$ 398,000.00	
Main Building	The exterior stucco Repair and Replacement	\$ 15,000.00	High
	Fascia Repair and Replacement	\$ 5,500.00	High
Library Outbuilding	Repoint the brick mortar joints.	\$ 2,500.00	High
Music Outbuilding	The music building is a modular building that appears to be at the end of its useful life without major renovations including the exterior cladding.	\$ 375,000.00	Low
Accessibility	Sub Total	\$ 40,000.00	
Main Building	This ADA parking spot should be rebuilt to meet ADA.	\$ 12,000.00	High
	While it would be great for all of the classrooms to be ADA accessible, because there are classrooms in the building and the problematic fix for these locations, it is not a high priority.	\$ 27,000.00	Low
	New vertical grab bars should be added to all toilet stalls.	\$ 1,000.00	High
Library Outbuilding	The boxes should be relocated.	\$ -	High
Music Outbuilding	The main ramp on the music room is new and appears to meet the necessary ADA requirements.	\$ -	No Action
Roofing	Sub Total	\$ 439,884.00	
Reroof	Roof Section: J	\$ 15,795.00	High
Reroof	Roof Sections: A,B,C,D,E,F,G,H,I,K	\$ 424,089.00	Low

Jefferson Elementary School

Low Priority Items Subtotal:	\$	237,000.00
Medium Priority Items Subtotal:	\$	454,809.00
High Priority Items Subtotal:	\$	152,000.00
Total Estimate:	\$	843,809.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 28,000.00	
Playground Asphalt Surface	Repair cracks, repair potholes and sealcoat entire area	\$ 20,000.00	Medium
West side Asphalt and Parking	Repair cracks, repair potholes and sealcoat entire area	\$ 8,000.00	Medium
Existing Wood Retaining Walls	Replace missing wood and repair as necessary	\$ 5,000.00	High
Existing Wood Retaining Walls	Replace with new concrete retaining walls	\$ 74,000.00	Low
HVAC System	Sub Total	\$ 28,100.00	
Heating	Hot Water Heat, (2) Riello High Efficiency Boilers Model AR 1500 1500 MBH input. Installed date 2021.	\$ -	No Action
	Armstrong in-line Mounted Pumps	\$ -	No Action
	Entry Floor Mounted Cabinet Heaters	\$ -	No Action
Ventilating	(1) Air Handler - West Addition VAV Units	\$ -	NA
	(2) Lower Level Classrooms Ceiling Unit Vents	\$ -	NA
	(2) AHU Units Auditorium	\$ -	NA
	(2) Floor Mounted Unit Vents Cafeteria	\$ -	NA
	Kitchen Equipment not equipped with required hoods	\$ 18,500.00	High
	Art Kiln hood ineffective	\$ 9,600.00	Medium
Air Conditioning	Air Cooled Condensing Unit per Air Handler	\$ -	NA
	(2) ductless split system in lower level, Kitchen and Art Rm	\$ -	NA
	Air Cooled Condensing Unit on Cafeteria Unit Vents	\$ -	NA
Plumbing System	Sub Total	\$ 18,500.00	
Plumbing	State Water Heater SB70 360 - 1994	\$ 11,500.00	High
	Missing Tempering Valve on Water Heater	\$ 3,500.00	High
	Kitchen 3-comp sink not equipped with grease trap	\$ 3,500.00	High
Fire Suppression System	Sub Total	\$ 110,000.00	
	Building not equipped with Fire Suppression	\$ 110,000.00	High
Control System	Sub Total	\$ -	
	DDC Controls - Fico on new Mechanical equipment		NA
Electrical System	Sub Total	\$ 321,369.00	
Building Service	No upgrades to the electrical service are required		No Action
Distribution	Replace obsolete panelboard on Auditorium stage	\$ 6,100.00	Medium
	Add two panelboards for additional classroom receptacle circuits	\$ 22,100.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 78,760.00	Medium
	Power Connections for Unit Ventilators in Classrooms	\$ 22,000.00	Medium
	Power Connections for Ceiling Mounted Cabinet Heaters Interior Offices	\$ 1,000.00	Low
	Power Connections for Interior Offices equipped with exhaust fan integrated with lighting	\$ 2,000.00	Medium
	Power Connections for (2) Gymnasium/Cafeteria Ceiling Mount Unit Ventilators & Floor Mounted cabinet heaters for aux heat.	\$ 6,000.00	Medium
	Power Connections for Unit Ventilators in Exterior Offices	\$ 5,000.00	Low

Systems	Description	Cost	Priority
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 100,285.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 12,124.00	Medium
Voice/Data	Add integrated A/V system to classrooms and library. This system was a part of the Safety/Security work at 10 other elementary schools	\$ 66,000.00	Low
Safety & Security System	Sub Total	\$ 167,840.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 145,840.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units with battery backup	\$ 7,000.00	Medium
	Replace older emergency egress lighting units with new LED style and battery backup.	\$ 10,000.00	Medium
	Add exterior emergency egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ 85,000.00	
Exterior Windows	The existing windows should eventually be replaced with new thermally broken aluminum frames and low-e insulated glazing.	\$ 85,000.00	Low
Doors	Sub Total	\$ 6,000.00	
Replace Door Knobs	Replace the knob with new lever sets to meet current ADA and life safety codes	\$ 6,000.00	Low
Exterior Cladding	Sub Total	\$ -	
No Work	Currently there are no recommendations.	NA	NA
Accessibility	Sub Total	\$ -	
No Work	Currently there are no recommendations.	NA	NA

Kessler Elementary School

Low Priority Items Subtotal:	\$	321,870.00
Medium Priority Items Subtotal:	\$	535,517.00
High Priority Items Subtotal:	\$	424,588.00
Total Estimate:	\$	1,281,975.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 10,000.00	
Replace concrete at Entry #3	Remove and replace concrete at Entry #3	\$ 10,000.00	
Parking Lot	Parking lot is difficult to plow and does not provide an area to pile snow.		
HVAC System	Sub Total	\$ 240,800.00	
Heating	Heating Plant consists of (4) Cast Iron Sectional Boilers Weil McLain GV-165 MBHand (1) high efficiency modular unit Lochinvar Knight KBN 801	\$ 110,000.00	Medium
	Bell and Gossett Circulation Pumps Model 4030	\$ 9,500.00	Medium
	Original Building Central Spaces heated with hydronic convectors	\$ 4,500.00	Low
	Entry Spaces are equipped with Cabinet Heaters	\$ 9,200.00	Low
Ventilating	Lower Level AHU for Gym Kitchen Unit Trane	\$ 71,000.00	Medium
	Greenheck Model BCF-112 Blower Coils for Original Building classrooms (1) equipment room and (1) ceiling mounted	\$ 14,500.00	Low
	Blower Coils provide ventilation and heat in 2-story classroom addition. (1) unit per pair of classrooms.		No Action
	Breakroom Range not equipped with code required hood	\$ 7,100.00	High
	Kitchen Equipment not Equipped w/ Code required Hoods	\$ 15,000.00	Medium
	Exterior self-contained units provide HVAC for Portable Classrooms		No Action
Cooling	Kitchen Mini Split Unit Model RKS36 Daikin		No Action
	Office Mini Split System Model 4MXL36 Daikin		No Action
Plumbing System	Sub Total	\$ 73,000.00	
Fixtures	Public Toilet Rooms recently revised by HPS staff or in progress		No Action
	Portable classrooms recently renovated		No Action
	Domestic water service has been updated to current requirements		No Action
	Lochinvar Model HST18-052 Electric Water for Kitchen area	\$ 4,500.00	Low
	Water Heater not equipped with tempering Valve	\$ 3,500.00	High
	AO Smith water heater Model BTH-120 with circulation pump in original boiler room - Installed 2005	\$ 11,500.00	Medium
	3-Comp Sink not equipped with grease trap	\$ 3,500.00	Medium
Supply/Waste Piping	Cast Iron and PVC Waste Piping - Fair Condition	\$ 25,000.00	Low
	Copper Domestic Water Piping - Fair Condition	\$ 25,000.00	Low
Sump Pump	Boiler room floor drains to sump pump		No Action
Fire Suppression System	Sub Total	\$ 95,000.00	
	No Fire Protection Installed	\$ 95,000.00	High
Control System	Sub Total	\$ 70,300.00	
Building Service	JCI DDC controls operate Kitchen/Gymnasium AHU	\$ 11,500.00	Medium
	JCI DDC controls sequence boiler room	\$ 12,100.00	
	JCI DDC controls sequence classroom reheat coils and provide day/night time schedule.	\$ 32,500.00	High
	7-day programmable thermostats for portable self contained equipment		
	JCI reheat coil valve actuators failing, new design significantly larger than installed equipment	\$ 14,200.00	

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 296,145.00	
Building Service	Replace existing service disconnects with single 800 amp outdoor distribution board	\$ 25,250.00	High
Distribution	Install new 400 amp distribution board to replace wiring gutter and disconnects in basement	\$ 18,250.00	High
	Replace obsolete panelboards	\$ 12,200.00	Medium
	Add two panelboards for additional classroom receptacle circuits	\$ 22,100.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 53,700.00	Medium
	Power Connections for Heating Plant (4) Cast Iron Sectional Boilers and (1) high efficiency modular unit	\$ 5,000.00	Medium
	Power Connections for Circulation Pumps	\$ 1,000.00	Medium
	Power Connections for Entry Space Cabinet Heaters	\$ 1,000.00	Low
	Power Connections for Lower Level AHU for Gym Kitchen Unit	\$ 10,000.00	Medium
	Power Connections for Blower Coils (1) equipment room and (1) ceiling mounted	\$ 1,000.00	Low
	Power Connections, Fire Alarm Tie-in and Equipment Shutdown for Breakroom Range hood	\$ 2,500.00	High
	Power Connection, Fire-Alarm Tie-in and Equipment Shutdown for Hoods	\$ 4,000.00	Medium
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 76,609.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 18,536.00	Medium
Voice/Data	Add integrated A/V system to classrooms and library. This system was a part of the Safety/Security work at 10 other elementary schools	\$ 45,000.00	Low
Safety & Security System	Sub Total	\$ 141,488.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 121,488.00	High
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units with battery backup	\$ 5,000.00	Medium
	Replace older emergency egress lighting units with new LED style and battery backup.	\$ 10,000.00	Medium
	Add exterior emergency egress lighting	\$ 5,000.00	Medium

Systems	Description	Cost	Priority
Windows	Sub Total	\$ 178,000.00	
Old Wood Windows	Replace all of these windows with new thermally broken aluminum double paned windows.	\$ 61,000.00	High
Old South facing Aluminum Windows	The South facing windows should be replaced sooner than later, with new thermally broken aluminum double paned windows.	\$ 18,000.00	Medium
Old Aluminum Windows	The rest of the older aluminum windows have a little bit more life in them but should eventually be replaced with new thermally broken aluminum double paned windows. We would recommend replacing the gym windows with a Kalwall system.	\$ 99,000.00	Low
Doors	Sub Total	\$ 9,000.00	
Main Building Exterior	There are (3) exterior doors that need being replaced.	\$ 8,000.00	High
Main Building Interior Hardware	There are (2) interior doors that still have knobs in place of lever handles that should be upgraded	\$ 1,000.00	High
Exterior Cladding	Sub Total	\$ 64,000.00	
Main Building Brick:	The exterior brick needs being repointed the mortar Joints.	\$ 15,000.00	Medium
Main Building Window	Replace infilled wall panels with new windows.	\$ 49,000.00	High
Accessibility	Sub Total	\$ 20,000.00	
Parking Cross Slope	The cross slope at the parking spot should be rebuilt to meet the code minimum of 2%.	\$ 20,000.00	Low
Roofing	Sub Total	\$ 120,542.00	
Reroof	Roof Section: B, K	\$ 47,372.00	Medium
Reroof	Roof Sections: D, J	\$ 73,170.00	Low

Ray Bjork Elementary School

Low Priority Items Subtotal:	\$	534,813.00
Medium Priority Items Subtotal:	\$	966,714.00
High Priority Items Subtotal:	\$	313,401.00
Total Estimate:	\$	1,814,928.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 145,000.00	
Front Parking Lot	Repair cracks, repair potholes and sealcoat entire area	\$ 15,000.00	Medium
Back Parking Lot	Provide drainage and pave parking area	\$130,000	Medium
HVAC System	Sub Total	\$ 528,300.00	
Heating System	(2) Apex modular Boilers for Heating Model APX 825	\$ 8,500.00	Low
	Boiler dedicated pumps equipped with VFD but operate at constant rate	\$ 7,100.00	Medium
	Original distribution piping underslab but relocated in recent upgrade		NA
	Boiler room piping issues	\$ 30,000.00	High
	Boiler room separated from building with flat plate heat exchanger		No Action
	Building loop set-up for glycol but operating with water	\$ 18,500.00	Medium
Ventilation	Classroom Floor Mounted Unit Ventilators	\$ 141,000.00	Medium
	Several Classrooms divided and Fintube added to provide new space temp control	\$ 12,500.00	Medium
	Lower Level Classrooms equipped with fintube, no mechanical ventilation.	\$ 31,200.00	High
	No mechanical ventilation in the office area	\$ 18,500.00	Medium
	Kitchen equipment not equipped with code required hoods	\$ 14,500.00	Medium
Cooling	Evaporative Cooling Units provide cooling in (4) spaces. Units are obsolete and parts are becoming difficult to procure.	\$ 21,500.00	Medium
	Central Chiller for Building	\$ 225,000.00	Medium
Plumbing System	Sub Total	\$ 10,500.00	
	Commercial Fixtures with flush valves		No Action
	Apex Modular High Efficiency Boiler for domestic hot water Model APX 425		No Action
	Bradford White Model SW65C5 indirect water heater		No Action
	System is equipped with tempering valve	\$ 3,500.00	Medium
	Domestic water service not equipped with backflow preventer	\$ 1,800.00	Medium
	3-Comp Sink not equipped with grease trap	\$ 5,200.00	Medium
Fire Suppression System	Sub Total	\$ 72,000.00	
	Building not equipped with fire suppression system	\$ 72,000.00	High
Control System	Sub Total	\$ 93,000.00	
	Pneumatic classroom controls	\$ 70,000.00	High
	Stand-alone DDC controls in Front Entry completed in Access and Security Project	\$ 6,500.00	Medium
	Boiler room equipped with DDC Controls	\$ 16,500.00	Medium

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 287,598.00	
Building Service	Upgrade service from 120/240 volt, 1-phase to 120/208 volt, 3-phase. Install new 600 amp outdoor main distribution board to accommodate heating, ventilating and future air-conditioning equipment.	\$ 26,100.00	High
	Concrete transformer pad and conduit stubs for utility company primary and secondary conductors	\$ 1,181.00	High
	Utility company charges. New transformer, underground primary & secondary.	\$ 12,000.00	High
	Install protective bollards around utility company transformer near driveway	\$ 2,820.00	High
Distribution	Install new 600 amp 3-phase distribution panelboard in boiler room	\$ 26,100.00	High
	Replace obsolete panelboards	\$ 42,700.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 50,120.00	Medium
	Power Connections for (2) modular Boilers	\$ 1,000.00	Low
	Boiler pumps equipped with VFD but operate at constant rate	\$ 1,000.00	Medium
	Power Connections for Classroom Floor Mounted Unit Vents	\$ 14,000.00	Medium
	Power Connection for Lower Level Classrooms mechanical ventilation.	\$ 5,000.00	High
	Power Connection for mechanical ventilation in the office area	\$ 2,000.00	Medium
	Power Connection, Fire-Alarm Tie-in and Equipment Shutdown for Kitchen Hood	\$ 4,000.00	Medium
	Power Connections for Cooling Units in (4) spaces	\$ 2,000.00	Medium
	Power Connection for Central Chiller for Building	\$ 30,000.00	Medium
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 58,806.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 8,872.00	Medium
Voice/Data	Add integrated A/V system to classrooms and library. This system was a part of the Safety/Security work at 10 other elementary schools	\$ 42,000.00	Low
Safety & Security System	Sub Total	\$ 116,116.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 105,116.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units with battery backup	\$ 5,000.00	Medium
	Replace older emergency egress lighting units with new LED style and battery backup.	\$ 3,000.00	Medium
	Add exterior emergency egress lighting	\$ 3,000.00	Medium
Windows	Sub Total	\$ -	
No Work	Currently No Recommendations	NA	NA

Systems	Description	Cost	Priority
Doors	Sub Total	\$ -	
No Work	Currently No Recommendations	NA	NA
Exterior Cladding	Sub Total	\$ 13,000.00	
Brick	Repoint the mortar on the brick that is being sprayed by the sprinkler system.	\$ 2,000.00	Low
	18" to 24" landscaping rock edge next to the building to reduce the deterioration in the future.	\$ 11,000.00	Low
Accessibility	Sub Total	\$ 37,000.00	
Parking	Rebuild the ADA parking spots to have a zero clearance to the sidewalk this will reduce the steepness of the slope and give direct accessibility.	\$ 25,000.00	High
Restrooms	Renovate the front restroom to a single user ADA restroom.	\$ 12,000.00	High
Roofing	Sub Total	\$ 470,313.00	
Reroof	Roof Section: A, B, C	\$ 470,313.00	Low

Rossiter Elementary School

Low Priority Items Subtotal:	\$	1,204,011.00
Medium Priority Items Subtotal:	\$	1,312,045.00
High Priority Items Subtotal:	\$	606,400.00
Total Estimate:	\$	3,122,456.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 180,000.00	
Playground Asphalt	Provide adequate drainage on playground and install new asphalt play surface.	\$ 90,000.00	High
West Parking Lot	Repair cracks, repair potholes and install 2 inch asphalt overlay	\$ 65,000.00	High
North Parking Lot	Repair cracks, repair potholes and sealcoat entire area	\$ 25,000.00	Medium
HVAC System	Sub Total	\$ 751,400.00	
Heating	(4) stacked Lochinvar Model KBN 800	\$ 45,000.00	Medium
	(5) in-line circulation pumps	\$ 15,500.00	Medium
	Boiler Pumps inaccessible	\$ 4,800.00	High
Ventilation	(2) Interior Classrooms not equipped with ventilation air	\$ 26,000.00	High
	Floor mounted unit ventilators in original building	\$ 132,000.00	Medium
	Addition equipped with roof mounted air handler classroom space temperature by duct mounted reheat coils	\$ 45,000.00	Low
	(1) gymnasium air handling unit	\$ 36,000.00	Medium
	Kitchen equipment (ovens) not equipped with code required kitchen hoods	\$ 12,100.00	High
	Mezzanine spaces equipped with ceiling mounted unit vents (not connected to outside air)	\$ 25,000.00	High
	Security Project replaced office AHU		No Action
Cooling	No mechanical cooling in the building	\$ 410,000.00	Medium
	Ceiling fans in mezzanine classrooms		
Plumbing System	Sub Total	\$ 81,500.00	
	Well domestic water system		NA
	Flush tank water closets		NA
	Bradford White Model EF100T Hot Water Heater	\$ 11,500.00	Medium
	Domestic Hot Water Equipped with tempering Valve	\$ 3,500.00	Medium
	3-Comp sink not equipped with grease trap	\$ 4,500.00	Medium
	Lead level makes well water undrinkable		No Action
	Plumbing Fixtures in fair condition	\$ 62,000.00	Low
Fire Suppression System	Sub Total	\$ 165,000.00	
	No fire suppression system	\$ 165,000.00	High
Control System	Sub Total	\$ 106,700.00	
	Pneumatic Classroom temperature Controls	\$ 68,000.00	High
	Boiler rm DDC system - Electro Controls	\$ 12,100.00	Medium
	Delta Controllers control AHU reheat coils	\$ 18,500.00	Medium
	Office AHU did controls not operational	\$ 8,100.00	Medium
Electrical System	Sub Total	\$ 450,801.00	
Building Service	Install new 800 amp outdoor main disconnect switch and increase capacity to allow for future Air Conditioning equipment	\$ 46,200.00	High
	Upgrade Modular Classroom Electrical Service to 200 amps	\$ 8,475.00	High
Distribution	Install new 800 amp indoor Main Distribution Board in Mechanical Room	\$ 19,825.00	High
	Add four 3-phase panelboards in classroom wings, for heating, ventilating and additional receptacle circuits	\$ 25,500.00	Medium

Systems	Description	Cost	Priority
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 93,080.00	Medium
	Power Connections to Boiler	\$ 1,000.00	Medium
	Power Connections for (5) in-line circulation pumps	\$ 1,500.00	Medium
	Power Connections for (2) Interior Classrooms ventilation units	\$ 1,000.00	High
	Power Connections to Floor mounted unit ventilators	\$ 20,000.00	Medium
	Power Connections for roof mounted classroom air handler	\$ 5,000.00	Low
	Power Connection for gymnasium air handling unit	\$ 3,000.00	Medium
	Power Connection, Fire-Alarm Tie-in and Equipment Shutdown for Kitchen Hood	\$ 8,000.00	High
	Power Connections for Mezzanine spaces ceiling mtd unit vents	\$ 2,000.00	High
	Power Connections for future Building A/C System	\$ 50,000.00	Medium
	Power Connections for Ceiling fans in mezzanine classrooms	\$ 2,000.00	Low
	Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 148,317.00
Gymnasium lighting upgrade to LED and automatic controls		\$ 15,904.00	Medium
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security System	Sub Total	\$ 228,544.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Install additional manual pull stations	\$ 6,000.00	High
	Replace with new Fire Alarm System and Voice Evacuation	\$ 202,544.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 5,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 10,000.00	High
	Add exterior egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ 117,000.00	
Windows	Replace all of the existing exterior windows with new aluminum thermally broken, double pane low-e glazing.	\$ 94,000.00	Low
Classrooms without Windows	It would be highly recommended to cut in windows into all of the classrooms.	\$ 23,000.00	Low
Doors	Sub Total	\$ 39,000.00	
Exterior Doors	Replace all older exterior doors with new insulated hollow metal doors or thermally broken aluminum doors.	\$ 39,000.00	High
Exterior Cladding	Sub Total	\$ 223,000.00	
Masonry	Reseal all masonry control joints.	\$ 3,000.00	High
Outbuilding	Replace or remodel the Music Outbuilding.	\$ 201,000.00	Low
Storage Addition	Replace all exterior siding on the storage addition with new metal wall panels.	\$ 12,000.00	Medium
Exterior Stair Railing	Modify the railing on the exterior stair to meet guard railing requirements and give better fall protection from the young students. We would also recommend removing the counterweight as it is not needed any longer.	\$ 7,000.00	High

Systems	Description	Cost	Priority
Accessibility	Sub Total	.	
Parking	Repour the sidewalk under that canopy to verify a smooth transition.	\$ 7,500.00	Medium
Roofing	Sub Total	\$ 772,011.00	
Reroof	Roof Section: A, C	\$ 772,011.00	Low

Smith Elementary School

Low Priority Items Subtotal:	\$	212,000.00
Medium Priority Items Subtotal:	\$	1,120,670.00
High Priority Items Subtotal:	\$	1,688,390.00
Total Estimate:	\$	3,021,060.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 68,000.00	
Parking Lot and adjacent sidewalks	Repair cracks, repair potholes and sealcoat entire area	\$ 50,000.00	Medium
Playground Asphalt	Repair cracks, repair potholes and sealcoat entire area	\$18,000	High
HVAC System	Sub Total	\$ 879,000.00	
Heating	Hot Water Heat Cast Iron Sectional Boilers (4) individual boiler rooms, (5) separated boiler systems	\$ 410,000.00	High
	Taco In-line Circulation Pumps per boiler system	\$ 45,000.00	Low
	(3) Weil McLain modular boiler System		No Action
	(1) Larger Weil McLain Model J-6-B 825 MBH Unit		No Action
	(1) Lochinvar Cast Iron Boiler		No Action
Ventilating	Ceiling mounted Unit Ventilators in Library	\$ 24,000.00	Medium
	(5) roof mounted air handlers for classroom ventilation. Equipment equipped with Economizer cooling.	\$ 225,000.00	Medium
	(1) Lower Level Air Handling Unit	\$ 45,000.00	Medium
	Individual space temperature via duct mounted reheat coils.		No Action
	Classroom ventilation airflow to centralized return in the classroom pod core. Return air path down corridors.	\$ 130,000.00	Low
Cooling	None installed in the building		
Plumbing System	Sub Total	\$ 82,500.00	
Fixtures	Public Toilet Rooms recently revised by HPS staff		No Action
	Domestic water service has been updated to current requirements		No Action
	(3) Domestic Water Heaters in the building , (1) AO Smith, (2) Lochinvar	\$ 13,500.00	High
	Water heaters not equipped with tempering valves	\$ 11,500.00	High
Supply/Waste Piping	Cast Iron Waste Piping - Fair Condition	\$ 12,500.00	Low
	Copper Domestic Water Piping - Fair Condition	\$ 10,000.00	Low
	Sanitary Service line between Bldg and Street punctured	\$ 35,000.00	High
Fire Suppression System	Sub Total	\$ 152,000.00	
	No Fire Protection Installed	\$ 152,000.00	High
Control System	Sub Total	\$ 139,400.00	
Building Service	Air Handling Equip is controlled with pneumatic controls	\$ 22,500.00	Medium
	Pneumatic Controls for Classroom temperature Control.	\$ 85,000.00	High
	Air Compressor - Older	\$ 4,500.00	Medium
	Manufacturer boiler sequencers provided in (3) modular boiler plants.	\$ 27,400.00	Medium
Electrical System	Sub Total	\$ 359,589.00	
Building Service	Move utility company transformer away from the building. Install new 800 amp outdoor main disconnect switch and increase capacity to allow for future Air Conditioning equipment	\$ 25,250.00	High
	Concrete transformer pad and conduit stubs for utility company primary and secondary conductors	\$ 1,181.00	High
	Utility company charges. New transformer, underground primary & secondary.	\$ 12,000.00	High
Distribution	Install new 800 amp indoor Main Distribution Board in Mechanical Room	\$ 30,935.00	High
	Add three 3-phase panelboards in classroom wings, for heating, ventilating and additional receptacle circuits	\$ 33,150.00	Medium

Systems	Description	Cost	Priority
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom.	\$ 64,440.00	Medium
	Power Connections for boilers	\$ 8,000.00	High
	Power Connections for In-line Circulation Pumps	\$ 2,500.00	Low
	Power Connection for Ceiling mounted Unit Vents in Library	\$ 5,000.00	Medium
	Power Connections for (5) roof mounted classroom air handlers	\$ 25,000.00	Medium
	Power Connection for Lower Level Air Handling Unit	\$ 5,000.00	Medium
	Power Connections for future Building A/C System (Add to RTU's)	\$ 30,000.00	
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 132,044.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 23,520.00	Medium
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security System	Sub Total	\$ 125,116.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation	\$ 105,116.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 5,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 10,000.00	High
	Add exterior egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ 319,000.00	
Hollow Metal Windows	Replace the hollow metal windows with thermally broken frames and double pane low-e glazing.	\$ 45,000.00	Medium
Aluminum Windows	Replace the aluminum non-thermally broken windows with thermally broken frames and double pane low-e glazing.	\$ 274,000.00	Medium
Doors	Sub Total	\$ -	
No work	Currently there are no recommendations.	NA	NA
Exterior Cladding	Sub Total	\$ 9,000.00	
Exterior Stairs	Replace the existing railing with a Guard Railing 42" tall and that will not allow a 4 inch sphere from passing through.	\$ 5,000.00	High
Masonry	Repoint the few locations of masonry that the mortar joints are cracking. Replace all sealant at the masonry control joints.	\$ 4,000.00	High
Accessibility	Sub Total	\$ 12,000.00	
Parking	Rebuild the ADA parking spots to have less than 2% cross slope. Extend the access lane to the building with an approved sidewalk.	\$ 12,000.00	Low
Roofing	Sub Total	\$ 867,024.00	
Reroof	Roof Section: A, E, F, G, H, I, J	\$ 867,024.00	High

Warren Elementary School

Low Priority Items Subtotal:	\$	108,131.00
Medium Priority Items Subtotal:	\$	1,533,035.00
High Priority Items Subtotal:	\$	714,399.00
Total Estimate:	\$	2,355,565.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 60,000.00	
Parking Lot	Repair cracks, repair potholes and sealcoat entire area Including adjacent sidewalks	\$ 40,000.00	Medium
Parking and Sidewalks in Front of School	Repair cracks, repair potholes and sealcoat entire area Including adjacent sidewalks	\$ 10,000.00	Medium
Playground asphalt	Repair cracks, repair potholes and sealcoat entire area	\$ 10,000.00	High
HVAC System	Sub Total	\$ 852,000.00	
Heating System	(3) Cast Iron Sectional Boilers (original bldg, first addition, last addition), all different sizes	\$ 165,000.00	Medium
	(3) interconnected but separated pumping and expansion tanks	\$ 8,500.00	Medium
	(3) duplex distribution pump sets	\$ 12,500.00	Medium
	(2) different combustion air systems for the boiler room	\$ 4,500.00	Medium
	(1) boiler system equipped with 3-way control valve for loop temperature reset		No Action
Ventilation	(2) Mezzanine Blower Coils - Hayes Blower Cabinet (Gym, Admin)	\$ 81,000.00	Medium
	Original building unit ventilators	\$ 85,000.00	Medium
	Addition central AHU with underground ductwork for classroom ventilation air	\$ 45,000.00	Low
	Admin space temp control with mezzanine duct mounted reheat coils	\$ 18,000.00	Low
	(5) Classrooms with floor mounted exterior wall fan coils (casework)	\$ 90,000.00	High
	Roof Exhaust fans in fair condition	\$ 7,500.00	Medium
	Kitchen equipment not equipped with code required hoods	\$ 7,500.00	High
	Original building entry cabinet heaters and unit heaters in fair condition	\$ 17,500.00	Low
Air Conditioning	Office area equipped with thru wall A/C units	\$ 310,000.00	Medium
Plumbing System	Sub Total	\$ 60,000.00	
	Flush Tank water closets	\$ 22,500.00	Medium
	Lochinvar Model CNR199 Water Heater	\$ 11,500.00	Low
	Domestic Water heater equipped with tempering valve	\$ 3,500.00	Medium
	Chlorine injection system for domestic water in good condition	\$ 18,000.00	Medium
	Kitchen 3-comp sink not equipped with grease trap	\$ 4,500.00	Medium
Fire Suppression System	Sub Total	\$ 165,000.00	
	Building not equipped with fire suppression	\$ 165,000.00	High
Control System	Sub Total	\$ 71,500.00	
	Automatic Logic DDC in boiler room only	\$ 7,500.00	Medium
	Pneumatic controls	\$ 64,000.00	High

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 295,010.00	
Building Service	Move utility company transformer away from the building. Install new 800 amp outdoor main disconnect switch and increase capacity to allow for future Air Conditioning equipment	\$ 25,250.00	High
	Concrete transformer pad and conduit stubs for utility company primary and secondary conductors	\$ 1,181.00	High
	Utility company charges. New transformer, underground primary & secondary.	\$ 12,000.00	High
Distribution	Install new 800 amp indoor Main Distribution Board in Mechanical Room	\$ 30,935.00	High
	Add two panelboards for additional classroom receptacle circuits	\$ 12,750.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 75,180.00	Medium
	Power Connections for boilers	\$ 5,000.00	Medium
	Power Connections for (3) duplex distribution pump sets	\$ 1,500.00	Medium
	Power Connection for combustion air systems in boiler room	\$ 500.00	Medium
	Power Connections for (2) Mezzanine Blower Coils (Gym, Admin)	\$ 2,000.00	Medium
	Power Connections for replace Original building unit ventilators	\$ 16,000.00	Medium
	Power Connection to Addition central AHU	\$ 5,000.00	Low
	Power Connections for Fan Coils in Exterior Offices	\$ 5,000.00	High
	Power Connections for Roof Exhaust fans	\$ 2,000.00	Medium
	Power Connection, Fire-Alarm Tie-in and Equipment Shutdown for Kitchen Hood	\$ 2,000.00	High
	Power Connection for replacement of Original building entry cabinet & unit heaters	\$ 2,000.00	Low
Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 87,766.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 8,948.00	Medium
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security Systems	Sub Total	\$ 135,656.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 120,656.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 5,000.00	Low
	Install new Emergency Lighting Units with battery backup	\$ 5,000.00	Medium
	Add exterior emergency egress lighting	\$ 5,000.00	Medium

Systems	Description	Cost	Priority
Windows	Sub Total	\$ 84,000.00	
Aluminum Single Pane	Replace the original aluminum framed single pane windows with new thermally broken double pane low-e windows.	\$ 37,000.00	Medium
Wood Framed Single Plane	Replace the wood frames and single pane windows with new thermally broken double pane low-e windows.	\$ 22,000.00	High
Doors	Sub Total	\$ 25,000.00	
Interior Rated Doors	Install mag holds on all interior fire rated doors to allow them held open without infringing on the fire code	\$ 14,000.00	High
Exterior Doors	Replace the three exterior door creating heavy maintenance issues	\$ 11,000.00	High
Exterior Cladding	Sub Total	\$ 4,000.00	
Masonry	Repoint the few locations of masonry that the mortar joints are cracking. Replace all sealant at the masonry control joints.	\$ 4,000.00	High
Accessibility	Sub Total	\$ 15,000.00	
Outbuilding ADA Ramp	Rebuild the plywood ramp to be more durable. We are including a price for concrete to be used.	\$ 15,000.00	Medium
Roofing	Sub Total	\$ 609,268.00	
Reroof	Roof Section: A	\$ 250,533.00	High
Reroof	Roof Sections: D, E	\$ 358,735.00	Medium
Reroof	Roof Sections: C	\$ 4,131.00	Low

CR Anderson Middle School

Low Priority Items Subtotal:	\$	565,395.00
Medium Priority Items Subtotal:	\$	3,290,557.00
High Priority Items Subtotal:	\$	2,412,777.00
Total Estimate:	\$	6,268,729.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 48,000.00	
Back Asphalt and sidewalks, Entry #7	Repair cracks, repair potholes and sealcoat entire area	\$ 26,000.00	Medium
Parking and Driveway at Module Classrooms, including sidewalks	Repair cracks, repair potholes and sealcoat entire area	\$ 22,000.00	Medium
HVAC System	Sub Total	\$ 1,509,200.00	
Heating	(2) HydroTherm KN 30 Condensing cast iron sect boilers 3000 MBH installed in 2013		No Action
	Combustion air to room not individual boilers		No Action
	(2) base mounted Bell and Gossett distribution pumps	\$ 14,400.00	Medium
	Abandoned 3-way control valve in heating loop. Originally for loop temperature reset control.	\$ 6,500.00	High
	Update Hot Water distribution piping	\$ 105,000.00	Low
	(2) abandoned Pacific Fintube boilers in boiler room	\$ 21,000.00	Low
Ventilation	Classrooms equipped with unit ventilators in original building. (2 vintages)	\$ 450,000.00	High
	Guidance Office area equipped with overhead ventilation system (DOAS). Unit duct reheat coil tempers air.	\$ 1,500.00	Low
	Building exhaust fans in poor condition	\$ 18,400.00	Medium
	(2) Trane AHU in crawlspace provide ventilation for lower level original building and Library. Original to building.	\$ 145,000.00	High
	Lower level space temp control by duct mounted reheat coils	\$ 38,500.00	Low
	Vo-Ag shop welding exhaust marginal with no make-up air	\$ 45,000.00	High
	Kitchen equipment not equipped with code required hoods	\$ 36,500.00	Medium
	Cafeteria air handler located in crawlspace	\$ 45,000.00	High
	Ceiling Unit Vent in latest addition		NA
Air Conditioning	Office Area equipped with Evaporative cooling units	\$ 32,400.00	Medium
	(2) ceiling unit vents equipped with DX cooling		No Action
	Central Chiller Plant	\$ 550,000.00	Medium
Plumbing System	Sub Total	\$ 132,300.00	
	Building plumbing fixtures in good condition	\$ 24,000.00	Low
	AO Smith Water Heater Model BTR 198 118. Installed 2014.	\$ 11,500.00	Low
	Domestic hot water heater equipped with tempering valve	\$ 4,250.00	Medium
	(3) domestic recirc loops Pumps replaced but controls original	\$ 4,250.00	Medium
	Building meter not equipped with required backflow preventor	\$ 3,800.00	Medium
	Building sewer system cast iron in fair condition	\$ 75,000.00	Medium
	Kitchen 3-comp sink not equipped with grease trap	\$ 9,500.00	Medium
Fire Suppression System	Sub Total	\$ -	
	Building equipped with (2) separate fire suppression systems.		NA
	Building fully covered		NA
	Original service entrance in boiler room		NA
	Addition service entrance in crawlspace		NA
Control System	Sub Total	\$ 191,500.00	
	Classroom temperature controls pneumatic	\$ 175,000.00	High
	Older Electro DDC system in boiler room	\$ 16,500.00	Medium

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 1,005,688.00	
Building Service	Replace existing service disconnects with new 1600 amp outdoor main disconnect	\$ 35,400.00	High
Distribution	Install new 1600 amp distribution board to replace existing in basement. Includes new feeder.	\$ 61,775.00	High
	Replace obsolete panelboards	\$ 18,300.00	Medium
	Add five panelboards for additional classroom receptacle circuits	\$ 55,250.00	Medium
	Power Connections and Panelboard for Central Plant Equipment	\$ 50,000.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 214,800.00	Medium
	Power Connections for (2) base mounted HW distribution pumps	\$ 2,000.00	Medium
	Power Connections for replace Classrooms unit ventilators in original building	\$ 60,000.00	High
	Power Connections for replacing Building exhaust fans	\$ 5,000.00	Medium
	Power Connections for (2) AHU in crawlspace for lower level and Library	\$ 10,000.00	High
	Power Connections for replacement of Vo-Ag shop welding exhaust	\$ 5,000.00	High
	Power Connection, Fire-Alarm Tie-in and Equipment Shutdown for Kitchen Hood	\$ 8,000.00	Medium
	Power Connections for Cafeteria air handler located in crawlspace	\$ 5,000.00	High
	Power Connections for Office Area Evaporative cooling units	\$ 4,000.00	Medium
	Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 426,631.00
Gymnasium lighting upgrade to LED and automatic controls		\$ 44,532.00	High
Low Voltage	Sub Total	\$ -	
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security Systems	Sub Total	\$ 614,616.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 569,616.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 15,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 20,000.00	Medium
	Add exterior emergency egress lighting	\$ 10,000.00	Medium
Windows	Sub Total	\$ 1,543,000.00	
Single Pane Aluminum	Replace all of the single pane windows with new thermally broken frames and double pane low-e glazing. This could be phased out.	\$ 1,543,000.00	Medium

Systems	Description	Cost	Priority
Doors	Sub Total	\$ 29,000.00	
Interior Doors	Replace the three interior doors accessing the elevator vestibules are getting.	\$ 8,000.00	High
Exterior Doors	Replace the seven man doors with new hollow metal insulated doors. Make sure the frames are fully grouted as they are heavily used by students and staff.	\$ 21,000.00	High
Exterior Cladding	Sub Total	\$ 104,000.00	
Masonry	Repair the Damage Masonry	\$ 5,000.00	High
	Reseal all control joints	\$ 7,000.00	High
Louvers	Replace the damage louvers	\$ 1,000.00	Low
Handrailing	Add handrailing to the two steps. Add a guard railing and repair the concrete in the back at entry No. 6.	\$ 15,000.00	High
West Entry Roof/Fascia	Rebuild the fascia with a more durable material.	\$ 7,000.00	Medium
Outbuildings	Install new insulation, siding, windows, doors, skirting, exterior ADA ramps, and most likely mechanical.	\$ 69,000.00	Low
Accessibility	Sub Total	\$ 52,000.00	
Parking and Accessible Route	Rebuild ADA Access to the building, both on the front and from the new parking lot.	\$ 52,000.00	High
Roofing	Sub Total	\$ 793,530.00	
Reroof	Roof Section: C, E, F, G, H	\$ 789,939.00	High
Reroof	Roof Sections: I, J	\$ 3,591.00	Medium
Reroof	Roof Sections: A	\$ 293,895.00	Low

Helena Middle School

Low Priority Items Subtotal:	\$	217,251.00
Medium Priority Items Subtotal:	\$	2,977,633.00
High Priority Items Subtotal:	\$	1,918,422.00
Total Estimate:	\$	5,113,306.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 317,000.00	
Entry 28 and surrounding surfaces	Replace asphalt and Install onsite retainage and storm drain to code	\$ 48,000.00	High
	Playground retaining walls and asphalt	\$ 150,000.00	High
Parking Lot	Repair cracks, repair potholes and sealcoat entire area	\$ 54,000.00	Medium
Auditorium Steps and entry	Replace steps, sidewalk and hand rails	\$ 65,000.00	Low
HVAC System	Sub Total	\$ 1,508,700.00	
Heating	Steam Heat (2) Weil McLain Model 1288 Cast Iron Sectional Boilers w/ Power Flame Model WCR3-G-25 Burners	\$ 45,000.00	Medium
	Boiler Rm Comb Air updated with Boiler Replacement		No Action
	Skidmore Boiler Feed Unit	\$ 4,800.00	Low
	(2) Steam to water Heat Exchanger (Boiler, Equip Rm)	\$ 12,500.00	Medium
	(4), (2) Sets of Bell and Gossett Base Mounted Circ Pumps	\$ 18,500.00	Low
	(4) Condensate Receivers	\$ 17,400.00	Medium
	Replace Distribution Piping	\$ 525,000.00	Medium
	Revise Boiler Room Piping for steam to water	\$ 85,000.00	Medium
Ventilating	(2) Ceiling mounted Air Handlers in Gymnasium	\$ 62,500.00	Medium
	(2) new ceiling mounted Snyder General Unit Vents in Exercise Space	\$ 24,500.00	Medium
	(1) Lower Level Air Handling Unit - Auditorium	\$ 56,000.00	Medium
	(1) Print Shop Air Handling Unit	\$ 42,500.00	Medium
	(1) vertical air handler with duct mounted steam coil - Locker Rm	\$ 17,000.00	Low
	Self Contained Classroom spaces converted storage spaces, no ventilation	\$ 11,500.00	High
	Floor Mounted Unit Vents in Classrooms	\$ 575,000.00	High
	Music Rooms newer Unit Vents (Ceiling, Floor)		No Action
	No Ventilation for lower level drafting room	\$ 11,500.00	High
Cooling	DAFC -0732 Data Aire glycol unit for Rm 300		No Action
	(2) ceiling cartridge Mini Split cooling units in Print Shop		No Action
	Central Chiller Plant	\$ 310,000.00	Medium
Plumbing System	Sub Total	\$ 153,500.00	
Fixtures	Public Toilet Rooms wall mounted, Flush Valve	\$ 65,000.00	Low
	Locker Room Toilet rooms outdated	\$ 45,000.00	Medium
	Locker room shower room floor drains do not meet drainage requirements	\$ 32,000.00	Medium
	Domestic water service has been updated to current requirements		NA
	Lochinvar Storage Tank Model TJV 120M		No Action
	(1) AO Smith BTH 250A Water Heater	\$ 11,500.00	High
Supply/Waste Piping	Cast Iron Waste Piping - Fair Condition		No Action
	Copper Domestic Water Piping - Fair Condition		No Action
Fire Suppression System	Sub Total	\$ 85,000.00	
	No Fire Protection Installed	\$ 85,000.00	High

Systems	Description	Cost	Priority
Control System	Sub Total	\$ 181,500.00	
Building Service	Air Handling Equip is controlled with pneumatic controls	\$ 32,500.00	Medium
	Pneumatic Controls for Classroom temperature Control.	\$ 135,000.00	High
	Air Compressor - Older	\$ 4,500.00	Medium
	Manufacturer boiler sequencers provide in (3) modular boiler plants.	\$ 9,500.00	Medium
Electrical System	Sub Total	\$ 1,019,945.00	
Building Service	Install new 1600 amp main disconnect with GFCI protection on Bldg Exterior. Remove BPS in existing switchboard	\$ 100,800.00	High
Distribution	Install new 1000 amp distribution board to replace existing 120/240 3-phase delta switchboard basement	\$ 38,425.00	Medium
	Replace obsolete panelboards. Convert 120/240V 1-phase to 120/208V 3-phase	\$ 75,000.00	Medium
	Add two panelboards for additional classroom receptacle circuits	\$ 22,100.00	Medium
	Power Connections and Panelboard for Central Plant Equipment	\$ 30,000.00	Medium
Branch Circuiting	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom and one for workrooms.	\$ 214,800.00	Medium
	Power Connections for Boilers	\$ 5,000.00	Medium
	Power Connection for Boiler Feed Unit	\$ 500.00	Low
	Power Connections for (2) Sets of Base Mounted Circ Pumps	\$ 1,000.00	Low
	Power Connections for (2) Air Handlers in Gymnasium	\$ 10,000.00	Medium
	Power Connections for (2) ceiling mtd Unit Vents in Exercise Rm	\$ 1,000.00	Medium
	Power Connection for Lower Level Air Handling Unit - Auditorium	\$ 7,500.00	Medium
	Power Connection for Print Shop Air Handling Unit	\$ 5,000.00	Medium
	Power Connection for air handler in Locker Rm	\$ 3,000.00	Low
	Power Connection for Self Contained Classroom Ventilation	\$ 2,000.00	High
	Power Connections for replacing Unit Vents in Classrooms	\$ 56,000.00	High
	Power Connection for lower level drafting room Ventilation	\$ 2,000.00	High
	Lighting	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 412,824.00
Gymnasium lighting upgrade to LED and automatic controls		\$ 32,996.00	Medium
Low Voltage	Sub Total	\$ -	
Voice/Data	Integrated A/V system already added to classrooms and library as part of the Safety-Security Bond		No Action
Safety & Security Systems	Sub Total	\$ 586,088.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-		No Action
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 541,088.00	Medium
Door Access System	Building has an electronic door access system installed in Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 15,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 20,000.00	Medium
	Add exterior emergency egress lighting	\$ 10,000.00	Medium

Systems	Description	Cost	Priority
Windows	Sub Total	\$ 58,000.00	
Old Single Pane Windows	Replace the single pane windows with thermally broken aluminum framed double pane low-e glazed windows.	\$ 58,000.00	Medium
Doors	Sub Total	\$ 167,000.00	
Old Interior Doors.	Add new interior door lever set to the older interior doors.	\$ 69,000.00	Medium
Exterior Doors	Replace the outdated Exterior Man Doors	\$ 68,000.00	High
	Replace the Overhead Door	\$ 30,000.00	High
Exterior Cladding	Sub Total	\$ 158,000.00	
Exterior Concrete Painting	Paint the entire exterior concrete finish.	\$ 45,000.00	Low
Handrailing	Add handrailing to the two steps. Add a guard railing and repair the concrete in the back at entry No. 6.	\$ 7,000.00	High
Northeast EIFS Addition	Replace all EIFS with a more durable finish system. Because of the architectural style we would recommend a fiber cement panel system be used.	\$ 106,000.00	Medium
Accessibility	Sub Total	\$ -	
No Work	Currently no recommendations	NA	NA
Roofing	Sub Total	\$ 885,573.00	
Reroof	Roof Section: B, C, K, N, O, P	\$ 823,122.00	High
Reroof	Roof Sections: D	\$ 62,451.00	Low

Capital High School & Vo-Tech

Low Priority Items Subtotal:	\$	1,770,515.00
Medium Priority Items Subtotal:	\$	4,492,036.00
High Priority Items Subtotal:	\$	3,763,196.00
Total Estimate:	\$	10,025,747.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 1,397,400.00	
Student Parking Lot including Staff parking lot	Replace Parking Lot and Install onsite retainage and storm drain to code	\$ 870,000.00	Medium
Parking Lot in front and east of school	Repair cracks, repair potholes and sealcoat entire area	\$ 44,400.00	High
Paving and parking between School and Vo Tech building	Replace Parking Lot and Install onsite retainage and storm drain to code	\$ 483,000.00	High
HVAC System	Sub Total	\$ 2,745,800.00	
Heating	Hot Water Heat (2) Kewanee Model KGP 85 FG w/ Power Flame Burners Model C5-G-30. Boilers rated for 8,370 MBH	\$ 315,000.00	High
	Boiler Rm Comb inadequate, Single wall louver	\$ 24,500.00	High
	(1) American Standard hot water boiler in original building boiler room	\$ 64,000.00	High
	Distributed hot water circulation pumps. Pumps added as building expanded.	\$ 16,500.00	Medium
	(6), (3) Sets of Bell and Gossett Circ Pumps, (3) Base mounted, and (1) in-line. (1) Addition pumps not redundant	\$ 42,000.00	High
Vo-Tech Heating	(3) Cast Iron Hot Water Heat; Weil McLain Model LGB-7 boilers 780 MBH	\$ 245,000.00	Medium
	Comb Air operational	\$ 9,600.00	High
	Addition Room combustion Air not equipped with isolation dampers. Boilers equipped with flue dampers	\$ 8,400.00	Medium
	Duplex pump in-line pump sets - B&G Original Rm	\$ 8,500.00	High
	Duplex pump in-line pump sets - Grundfos Addition Rm	\$ 5,600.00	Low
Ventilating	(4) Ceiling mounted Air Handlers in Gymnasium w/ roof relief fans	\$ 112,000.00	Medium
	(2) new ceiling mounted in Unit Vents in Exercise Space	\$ 19,500.00	Low
	(4) Horizontal unit ventilators installed in the vertical provide HVAC for Chorus/Band Area	\$ 96,500.00	Low
	(3) Gas fired make-up air units	\$ 38,000.00	Medium
	(4) Rooftop Unitary Units	\$ 102,000.00	Medium
	(3) Locker room HVAC units - Original to building	\$ 94,000.00	Medium
	(2) Ceiling mounted air handlers.	\$ 76,500.00	High
	(1) horizontal air handler for auditorium in attic space. Pumped heating coil.	\$ 46,500.00	High
	(1) Roof mounted unit (Aaon) being installed for Office space remodel. Plenum Return, grille in lobby space.		No Action
	Utility set exhaust fans provide exhaust for locker rooms	\$ 9,400.00	High
	Floor Mounted Unit Vents in Classrooms (2 vintages) - (34 Units)	\$ 525,000.00	Medium
	(2) Pace Air Handlers installed in 1997 - VAV		No Action
	(3) Lower Level Multi-zone Units (15 Total Zones)	\$ 215,000.00	High
	Girls Locker room built-up system. Duct reheat coil plugged with dirt.	\$ 45,000.00	High
	Ceramics Exhaust routed up side of the building	\$ 28,500.00	Medium
	Locker Room/Science Areas Exhaust fans - Utility Set Style	\$ 36,500.00	High
Roof Mounted exhaust fans 30% roof exhaust fans not operational. Several abandoned fans on the roof remain.	\$ 42,500.00	Medium	

Systems	Description	Cost	Priority
Vo-Tech Ventilating	(2) gas fired air handlers converted to hot water, Tjerlund Unit. Duct mounted reheat coil per shop space.	\$ 131,000.00	High
	Auto Shop Office unit abandoned in-place and ductwork connected to shop vent system	\$ 18,500.00	Medium
	Welding exhaust fans original to the building, inadequate	\$ 84,500.00	Low
	Auto shop underfloor vehicle exhaust system abandoned.	\$ 54,000.00	Medium
	Metal shop plasma cutter ventilation inadequate	\$ 7,500.00	High
	No Gas monitor alarm	\$ 4,500.00	High
	Abandoned paint booth utilized as finish room		Medium
	Wood Shop dust distribution ductwork does not match installed equipment. Additional Floor sweep extended to smaller shop	\$ 85,000.00	High
	New wood shop equipped with ceiling mounted dust collector units (self-contained)	\$ 48,000.00	High
	Dust Collector Original to the Building	\$ 65,000.00	High
	Ceiling mounted fan coil provides HVAC for end (3) classrooms.	\$ 21,800.00	High
Cooling	Aaon unit on Office equipped with DX cooling		No Action
	Library Unit connected to roof mounted condensing unit		No Action
	IT closet equipped with Daikin Ductless Split System		No Action
Vo-Tech Cooling	Thru wall A/C in SE Upper Level Classroom	\$ 8,500.00	Low
Plumbing System	Sub Total	\$ 255,600.00	
Fixtures	Public Toilet Rooms wall mounted, Flush Valve Fixtures updated by HPS Staff		No Action
	Domestic water service has been updated to current requirements		No Action
	(2) Bradford White Water Heater Model RG H6N 55 gal Water Heater	\$ 10,800.00	Medium
Vo-Tech Fixtures	Public Toilet Rooms wall mounted, Flush Valve Fixtures updated by HPS Staff - Fair Condition		No Action
	Semi-circular wash stations are outdated and need to be replaced. (6) Units	\$ 38,500.00	Medium
	Original Building drinking fountains still operational	\$ 14,500.00	Medium
	Domestic water service has been updated to current requirements		No Action
	Shop Trench Drains not connected to sanitary Sewer		No Action
	(1) Lochinvar CNR250-100 gas fired heaters	\$ 11,200.00	Medium
	Water Heaters not equipped with tempering devices	\$ 4,600.00	High
Supply/Waste Piping	Cast Iron Waste Piping - Fair Condition	\$ 56,000.00	Low
	Domestic Water Piping copper - Fair Condition	\$ 45,000.00	Low
	Roof Drains updated to add secondary drains as building has been reroofed.		No Action
	Tunnel piping supports failing	\$ 75,000.00	High
Vo-Tech Supply/Waste Piping	Cast Iron Waste Piping - unable to inspect		No Action
	Domestic Water Piping copper - Fair Condition	\$ 20,000.00	Low
	Compressed air piping outdated for current shop layouts	\$ 16,500.00	Medium
Fire Suppression System	Sub Total	\$ 85,000.00	
	Fire Protection installed in lower level, installed above boiler room exterior door.	\$ 250,000.00	High
Vo-Tech	Building not equipped	\$ 85,000.00	High

Systems	Description	Cost	Priority
Control System	Sub Total	\$ 277,300.00	
Building Service	Air Handling Equip(Pace) for (2) additions Science/Gymnasium are controlled JCI Metasys controls	\$ 14,500.00	High
	Pneumatic Controls for Classroom temperature Control.	\$ 145,000.00	High
	Air Compressor - Older	\$ 4,200.00	Medium
	New air handlers equipped with vide. Equipment original to building addition.	\$ 31,000.00	High
	JCI Controller with NAE DDC interface	\$ 31,500.00	High
	Honeywell electric control panel still operational	\$ 4,600.00	High
	Air handler pneumatic controls in varying states of operation	\$ 46,500.00	High
Vo-Tech Building Service	Pneumatic temperature control	\$ 45,000.00	High
	Original Building Air Compressor serves both TC and shop air - Older	\$ 4,600.00	Medium
	Weil McLain Boiler Sequencer	\$ 9,500.00	Medium
Electrical System	Sub Total	\$ 1,939,310.00	
Main Building & Vo-tech Services	New electrical services at main building and Vo-tech were recently installed		No Action
Distribution Main Building	Install new 800 amp switchboard to replace original obsolete switchboard No. 1 with Feeder	\$ 30,935.00	High
	Install new Boiler Room Switchboard to replace obsolete original with Feeder	\$ 26,100.00	Medium
	Replace obsolete distribution boards (4) with feeders	\$ 79,600.00	Medium
	Replace obsolete panelboards 120/208V (8) with feeders	\$ 88,800.00	Medium
	Replace obsolete panelboards 277/480V (4) with feeders	\$ 44,200.00	Medium
	Add three panelboards for additional classroom receptacle circuits	\$ 27,675.00	Medium
	Replace dry type transformers (4) 75 KVA	\$ 53,200.00	Medium
	Add battery module to UPS to increase capacity to 8 KVA for camera video backup	\$ 9,000.00	High
	Add three panelboards for additional classroom receptacle circuits	\$ 27,675.00	Medium
Main Building Branch Circuiting	Most classrooms and associated workrooms do no have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 279,240.00	Medium
	Power Connections for (2) Unit Vents in Exercise Space	\$ 2,000.00	Low
	Power Connections for (4) Horizontal unit vents and HVAC for Chorus/Band Area	\$ 15,000.00	Low
	Power Connections for (3) Gas fired make-up air units	\$ 6,000.00	Medium
	Power Connections for (4) Rooftop Unitary Units	\$ 20,000.00	Medium
	Power Connections for (3) Locker room HVAC units	\$ 12,000.00	Medium
	Power Connections for (2) Ceiling mounted air handlers.	\$ 8,000.00	High
	Power Connection for auditorium air handler	\$ 10,000.00	High
	Power Connections for (4) Air Handlers in Gymnasium	\$ 20,000.00	Medium
	Power Connections to locker room exhaust fans	\$ 2,000.00	High
	Power Connections for Unit Vents in Classrooms - (34 Units)	\$ 34,000.00	Medium
	Power Connections for (3) Lower Level Multi-zone Units	\$ 45,000.00	High
	Power Connections for Locker Room/Science Areas Exhaust fans	\$ 2,000.00	High
	Power Connections for Roof Mounted exhaust fans	\$ 5,000.00	Medium

Systems	Description	Cost	Priority
Vo-Tech Branch Circuiting	Power Connections for (2) shop air handlers	\$ 20,000.00	High
	Power Connections for Welding exhaust fans	\$ 7,000.00	Low
	Power Connection for Metal shop ventilation	\$ 1,500.00	High
	Power Connection for New wood shop dust collector units	\$ 15,000.00	High
	Power Connection for Dust Collector Original to the Building	\$ 15,000.00	High
	Power Connections for (3) fan coils, HVAC for end (3) classrooms	\$ 3,000.00	High
	Power Connections for Thru wall A/C in Upper Level Classroom	\$ 1,000.00	Low
Lighting Main - Building and Vo-tech	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended	\$ 916,493.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 112,892.00	Medium
Low Voltage	Sub Total	\$ 207,355.00	
A/V Systems	Integrated A/V system in each classroom	\$ 207,355.00	Low
IT Equipment	Expand Main Data Rack to accommodate Clock/Program/PA and camera POE connections. Add data Switches	\$ 100,000.00	High
Safety & Security Systems	Sub Total	\$ 1,945,753.00	
Clock/Program/Public Address System	Install new Clock/Program/PA, IP-based system that includes messaging as was installed in the Elementary Schools in the recent Safety-Security Upgrade	\$ 419,647.00	High
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 987,404.00	Medium
Door Access System	Building has an electronic door access system installed at only 3 Entries. Expand door monitoring and access to entire school, including Vo-Tech	\$ 320,906.00	High
Surveillance Camera System	Building has IP based POE surveillance cameras at three entries. Install cameras at all other entry doors	\$ 172,796.00	High
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 15,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 20,000.00	Medium
	Add exterior emergency egress lighting	\$ 10,000.00	Medium
Windows	Sub Total	\$ 148,000.00	
Aluminum Single Pane	Replace the single pane windows with thermally broken aluminum framed double pane low-e glazed windows.	\$ 148,000.00	Medium
Shop Windows	Replace all shop windows with thermally broken frames and double pane low-e glazing.	\$ 8,000.00	Low
Doors	Sub Total	\$ 266,000.00	
Interior Doors	Replace all the doors at the stair landing and install with mag holds. The triple doors need to be rebuilt further back to verify they don't encroach on the stair exit width.	\$ 49,000.00	High
Exterior Doors	Replace all exterior main entrance doors with a maximum duty Level-4 door system.	\$ 29,000.00	High
Shop Doors	Insulated Overhead Section doors	\$ 75,000.00	High
	Exterior Man Doors to be replaced with Level 4 Insulated Doors	\$ 48,000.00	High
	Interior Man doors to be replaced with Level 4 hollow metal door and frame	\$ 65,000.00	High
Exterior Cladding	Sub Total	\$ 13,000.00	
Shop Building	Replace the damaged metal wall panels at the shop and repaint all exterior cladding including CMU.	\$ 13,000.00	Low
Accessibility	Sub Total	\$ 19,000.00	
Shop Building	Make a men's and women's restroom facility accessible in the shop building.	\$ 19,000.00	Medium
Roofing	Sub Total	\$ 479,969.00	
Reroof	Roof Section: J, K, M, R, S, T, U, V	\$ 334,412.00	High
Reroof	Roof Sections: N, O, Q, W	\$ 145,557.00	Medium
Reroof	Roof Sections: A, D, E, F, H, I, L	\$ 1,181,560.00	Low

Helena High School & Vo-Tech

Low Priority Items Subtotal:	\$	1,101,093.00
Medium Priority Items Subtotal:	\$	5,841,549.00
High Priority Items Subtotal:	\$	9,733,026.00
Total Estimate:	\$	16,675,668.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 520,000.00	
Steps and sidewalks to the front door of the School	Remove and replace steps and install new handrail	\$ 120,000.00	High
Parking Lot	Repair cracks, repair potholes and sealcoat entire area	\$ 400,000.00	Medium
HVAC System	Sub Total	\$ 4,918,300.00	
Heating	Steam Heat (3) National Steel Boiler Model AC-6615 w/IC Power Burners. Boilers rated for 6,250 lbs/Hr	\$ 1,250,000.00	High
	Boiler Rm Comb inadequate	\$ 18,500.00	High
	Duplex pump set on boiler feed unit distributed		No Action
	(2) Steam to water Heat Exchanger (Gymnasium, Science) Additions. Heat Exch equipped w/ 1/3, 2/3 valve arrangement	\$ 71,000.00	Medium
	(4), (2) Sets of Bell and Gossett Circ Pumps, (1) Base Mtd, and (1) in-line	\$ 81,000.00	High
	(4) Condensate Receivers	\$ 9,600.00	High
	(1) Condensate receiver in crawlspace has motor failure	\$ 7,300.00	High
Vo-Tech Heating	(2) Cast Iron Steam Plants Steam Heat; (3) Burham boiler (Original) 800 MBH, (2) Burham boiler Model K809HNE	\$ 415,000.00	Medium
	Original Boiler Rm Comb Air not operational	\$ 4,800.00	High
	Addition Room combustion air not equipped with isolation dampers. Boilers equipped with flue dampers	\$ 2,100.00	Medium
	Duplex pump in-line pump sets - B&G Original Rm	\$ 14,500.00	Medium
	Duplex pump in-line pump sets - Grundfos Addition Rm	\$ 21,500.00	Low
Ventilating	(8) Ceiling mounted Air Handlers in Gymnasium	\$ 160,000.00	Medium
	(2) new ceiling mounted in Unit Vents in Exercise Space	\$ 34,500.00	Low
	(2) Scott Springfield (Steam) air handlers serve most recent additions. Face/Bypass coil control in addition to control valve	\$ 45,000.00	Low
	(3) Ceiling mounted air handlers. Band, Counseling & Chorus spaces.	\$ 125,000.00	High
	(1) vertical air handler for auditorium space	\$ 54,000.00	High
	(1) Roof mounted unit for Gymnasium Upper Level	\$ 46,500.00	Low
	Floor Mounted Unit Vents in Classrooms (2 vintages) - (52 Units)	\$ 1,850,000.00	High
	Roof Mounted exhaust fans 80% replaced in last 3-5 years	\$ 85,000.00	Medium
Vo-Tech Ventilating	(2) gas fired air handlers converted to hot water, Tjerlund Unit. Duct mounted reheat coil per shop space.	\$ 135,000.00	High
	(1) hot water make-up air unit in new auto shop.	\$ 16,000.00	Low
	Welding exhaust fans original to the building, inadequate	\$ 85,000.00	Low
	Auto shop underfloor vehicle exhaust system abandon.	\$ 36,500.00	Medium
	Metal shop plasma cutter ventilation inadequate	\$ 8,500.00	High
	No Gas monitor alarm	\$ 6,500.00	High
	Abandoned paint booth in new auto shop	\$ 18,500.00	Medium
	Wood Shop dust distribution ductwork does not match installed equipment.	\$ 42,500.00	High
	New wood shop equipped with ceiling mounted dust collector units (self-contained)	\$ 64,500.00	High
	Dust Collector Original to the Building	\$ 84,000.00	High
	(4) ceiling hot water unit heaters in new shop	\$ 31,000.00	Low
	(2) upper level classroom spaces equipped with floor mounted unit ventilators	\$ 21,000.00	Low
	Attic mechanical space unit provides HVAC for lower level classrooms. Reheat coils provide zone control	\$ 31,500.00	High

Systems	Description	Cost	Priority
Cooling	(3) roof mounted evaporative cooling units in the office space	\$ 42,500.00	High
	Central Cooling Plant	\$ 715,000.00	High
Vo-Tech Cooling	Thru wall A/C in SE Upper Level Classroom	\$ 8,500.00	High
Plumbing System	Sub Total	\$ 786,600.00	
Fixtures	Public Toilet Rooms wall mounted, Flush Valve Fixtures updated by HPS Staff		No Action
	Domestic water service has been updated to current requirements		No Action
	Lochinvar Storage Tank Model TJV 120M		No Action
	(1) Bradford White Water Heater Model RG H6N 55 gal Water Htr	\$ 14,500.00	High
Vo-Tech Fixtures	Public Toilet Rooms wall mounted, Flush Valve Fixtures updated by HPS Staff - Fair Condition		No Action
	Semi-circular wash stations are outdated and need to be replaced	\$ 24,500.00	High
	Domestic water service has been updated to current requirements		No Action
	Shop Trench Drains not connected to sanitary Sewer		No Action
	(2) Bradford White Water Heater gas-fired 40 gallon units	\$ 9,200.00	High
	Water Heaters not equipped with tempering devices	\$ 3,400.00	High
Supply/Waste Piping	Cast Iron Waste Piping - Poor Condition	\$ 325,000.00	High
	Domestic Water Piping mix copper and galvanized- Fair/poor Condition	\$ 410,000.00	High
	Tunnel piping supports failing		No Action
Vo-Tech Supply/Waste Piping	Cast Iron Waste Piping - uninspectable		No Action
	Domestic Water Piping copper - Fair Condition	\$ 32,000.00	Medium
	Compressed air piping outdated for current shop layouts	\$ 34,000.00	Medium
Fire Suppression System	Sub Total	\$ 74,000.00	
	Fire Protection installed in recent additions, freeze-up issues	\$ 615,000.00	High
Vo-Tech	Building not equipped	\$ 74,000.00	High
Control System	Sub Total	\$ 367,000.00	
Building Service	Air Handling Equip for (2) additions Science/Gymnasium are controlled JCI Metasys controls	\$ 34,500.00	High
	Pnuematic Controls for Classroom temperature Control.	\$ 210,000.00	High
	Air Compressor - Older	\$ 4,500.00	Medium
	New air handlers equipped with vfd. Equipment original to building addtion.	\$ 31,500.00	High
	Air handler pneumatic controls in varying states of operation	\$ 86,500.00	High
Vo-Tech Building Service	Pnuematic temperature Control.	\$ 42,000.00	High
	Original Building Air Compressor serves both TC and shop air - Older	\$ 4,250.00	High
	Separate TC compressor in Addition equipment room	\$ 12,000.00	High
	Tekmar Boiler Sequencer Model 274 both rooms	\$ 19,600.00	High

Systems	Description	Cost	Priority
Electrical System	Sub Total	\$ 1,596,302.00	
Main Building Service	Existing 500 KVA Pad Mounted Transformer and 1600 amp service feeder rating		No Action
Future Central Cooling Plant Electrical Service and Equipment Connections	Install new 800 amp, 277/480 volt electrical service	\$ 46,200.00	Medium
	Concrete transformer pad, grounding and conduit stubs for utility company primary and secondary conductors	\$ 1,800.00	Medium
	Utility company charges. New transformer, underground primary & secondary.	\$ 17,000.00	Medium
	Power Connections and Panelboard for Central Plant Equipment	\$ 25,000.00	Medium
Distribution Main Building	Install new 1200 amp switchboard to replace original obsolete switchboard with feeder	\$ 37,115.00	High
	Replace obsolete distribution boards with feeders	\$ 88,550.00	High
	Replace obsolete panelboards (9) 100A & (10) 225A with feeders	\$ 220,250.00	High
	Install 8 KVA UPS for Camera System backup	\$ 75,000.00	High
	Add three panelboards for additional classroom receptacle circuits	\$ 27,675.00	Medium
Branch Circuiting Main Building	Most classrooms and associated workrooms do not have sufficient quantities of convenience receptacles to meet today's needs. Recommend replacing existing receptacles and adding up to 8 additional. Increase branch circuiting to a minimum of two dedicated circuits per classroom	\$ 315,040.00	Medium
	Power Connections for Boiler Room Pumps & Equipment	\$ 40,000.00	High
	Power Connections for (8) Gym Air Handlers	\$ 20,000.00	Medium
	Power Connections for Gymnasium Roof Mounted Exhaust Fan	\$ 2,000.00	Low
	Power Connections for (3) Band, Counseling & Chorus Air Handlers	\$ 7,500.00	High
	Power Connections for Auditorium Air Handler	\$ 4,000.00	High
	Power Connections for Roof Mounted Exhaust Fans	\$ 10,000.00	Medium
	Power Connections for (2) Exercise Ceiling Mounted Unit Vents	\$ 2,000.00	Low
	Power Connections for (52) Floor Mounted Unit Vents	\$ 39,000.00	High
	Vo-Tech Branch Circuiting	Power Connections for (2) shop air handlers	\$ 10,000.00
Power Connection for hot water make-up air unit in auto shop		\$ 2,000.00	Low
Welding exhaust fans		\$ 10,000.00	Low
Power Connection for Metal shop ventilation		\$ 1,500.00	High
Abandoned paint booth in new auto shop		\$ 18,500.00	Medium
Power Connection for New wood shop dust collector units		\$ 15,000.00	High
Power Connection for Dust Collector Original to the Building		\$ 15,000.00	High
Power Connections for (4) hot water unit heaters in shop		\$ 2,000.00	Low
Lighting Main Building and Vo-tech	Building-wide upgrade to LED lighting except gymnasium and areas that have already been upgraded. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 445,232.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 96,940.00	Medium
Low Voltage	Sub Total	\$ 207,355.00	
A/V Systems	Integrated A/V system in each classroom	\$ 207,355.00	Low
IT Equipment	Expand Main Data Rack to accommodate Clock/Program/PA and camera POE connections. Add data Switches	\$ 100,000.00	High

Systems	Description	Cost	Priority
Safety & Security Systems	Sub Total	\$ 1,945,753.00	
Clock/Program/Public Address System	Install new Clock/Program/PA, IP-based system that includes messaging as was installed in the Elementary Schools in the recent Safety-Security Upgrade	\$ 419,647.00	High
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 987,404.00	Medium
Door Access System	Building has an electronic door access system installed at only 3 Entries. Expand door monitoring and access to entire school, including Vo-Tech	\$ 320,906.00	High
Surveillance Camera System	Building has IP based POE surveillance cameras at three entries. Install cameras at all other entry doors	\$ 172,796.00	High
Exit/Emergency Lighting	Replace older exit signs with new LED units	\$ 15,000.00	Medium
	Install new Emergency Lighting Units with battery backup	\$ 20,000.00	Medium
	Add exterior emergency egress lighting	\$ 10,000.00	Medium
Windows	Sub Total	\$ 599,000.00	
Exterior Wood Frames Windows	These windows should all be replaced with thermally broken aluminum windows with double paned low-e glazing.	\$ 510,000.00	High
Exterior Aluminum Windows	The leaking operable windows should have their seals replaced and if this doesn't fix the issue new systems should be installed.	\$ 89,000.00	High
Doors	Sub Total	\$ 589,000.00	
Main Building Exterior Doors	The old exterior doors should be replaced with thermally broken Aluminum Framed System.	\$ 127,000.00	High
Main Building Interior Doors	The old interior doors should be replaced with hollow metal doors and frames.	\$ 315,000.00	Low
Shop Outbuilding Section Doors	New insulated sectional doors with all new seals should be installed.	\$ 60,000.00	High
Shop Outbuilding Exterior Man Doors	New galvanized hollow metal doors and frames should be installed in place of the old doors.	\$ 28,000.00	High
Shop Outbuilding Interior Doors	Because of the shop nature of these space it would be recommended that new Galvanized Hollow Metal Doors and Frames be installed in place of the old doors	\$ 59,000.00	Low
Exterior Cladding	Sub Total	\$ 179,000.00	
Masonry	Repoint the mortar joints that have deteriorated.	\$ 15,000.00	High
EIFS	Replace the EIFS system with a better-quality cladding system	\$ 56,000.00	Medium
Exterior Concrete Stairs	Repour the concrete stairs and sidewalk. Build new Metal Handrailing	\$ 77,000.00	High
Soffit and Fascia on Gym	Refinish the wood fascia and Soffit with break metal and metal panels	\$ 14,000.00	Medium
Metal Stair from Gym Second Floor	Refinish the stairs and build a new guard railing	\$ 11,000.00	Medium
Concrete Stoop, Steps, and Railing	Replace Concrete and railing at all these locations	\$ 6,000.00	Medium
Accessibility	Sub Total	\$ 167,000.00	
Interior Ramps	Add handrailing to all 5 ramps. Extend the 3 ramps that can be.	\$ 157,000.00	Low
ADA Parking	The cross slope of the ADA parking spot is over the 2% and there are a few panels that have a larger than ¼" step creating a tripping hazard. These should eventually be fixed.	\$ 10,000.00	Low
Roofing	Sub Total	\$ 3,631,770.00	
Reroof	Roof Section: J, K, L, R, W, X, Z, G1	\$ 806,112.00	High
Reroof	Roof Sections: A, B, C, D, E, F, G, H, I, N, O, S, T, A1, B1, C1, F1, H1, I1	\$ 2,825,658.00	Medium
Reroof	Roof Sections: P, Q	\$ 32,238.00	Low

Front St Learning Center

Low Priority Items Subtotal:	\$	89,348.00
Medium Priority Items Subtotal:	\$	406,273.00
High Priority Items Subtotal:	\$	710,520.00
Total Estimate:	\$	1,206,141.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 300,000.00	
Parking Lot	Repair cracks, repair potholes and sealcoat entire area Needs proper drainage that will add costs	\$ 300,000.00	Medium
HVAC System	Sub Total	\$ 317,500.00	
Heating	(3) Weil McLain Model VHE-6 Cast Iron Boilers 167 MBH Input Boiler Rm Comb updated to current code Installed 1987 (2) Taco Inline Circ Pumps	\$ 165,000.00 \$ 15,000.00 \$ 9,500.00	Medium Medium Low
Ventilating	(1) Lennox Rooftop Unit Model CHA16-1853 Duct mounted Min OA Damper (1) Temtrol Model RD-12S Air Handler (7.5 HP) (3) Carrier Model 38AK Air Cooled Condensing Units, Connected to Temtrol Unit (1) Ceiling mounted office fan coil w/ (1) Roof mounted air cooled condensing unit Neither kitchen range is equipped with required type I hood (total 2) Space Comfort provided with perimeter fintube radiation Electric Kiln installed in old abandoned toilet room	\$ 32,000.00 \$ 42,000.00 \$ 18,500.00 \$ 12,500.00 \$ 14,500.00 \$ 8,500.00	High High Low High High Medium Low
Cooling	Entire building equipped with mechanical cooling		
Plumbing System	Sub Total	\$ 11,200.00	
Fixtures	Public Toilet Rooms wall mounted, Flush Valve Fixtures updated by HPS Staff Domestic water service does not contain a required backflow preventor (1) Bradford White Water Heater Model MI5036FBN 50 gal Water heater w/Recirc Pump Water Heater not equipped with tempering valve	\$ 3,500.00 \$ 4,200.00 \$ 3,500.00	NA Medium Low High
Supply/Waste Piping	Cast Iron Waste Piping - inaccessible no issues reported Domestic Water Piping copper - Fair Condition		NA NA
Fire Suppression System	Sub Total	\$ 47,250.00	
	Fire Protection not present in this building	\$ 47,250.00	High
Control System	Sub Total	\$ 83,900.00	
Building Service	Weil McLain Boiler Sequencer provides boiler stages Pneumatic Controls for perimeter radiation temperature Control. Air Compressor - Older Electric Wall Stats control entry area electric heaters Ventilation equipment controlled by 7-day programmable thermostats	\$ 8,500.00 \$ 64,000.00 \$ 1,800.00 \$ 9,600.00	Medium Medium Medium NA Low
Electrical System	Sub Total	\$ 366,753.00	
Building Service	No upgrades required		NA
Distribution	No upgrades required		NA
Branch Circuiting	Add duplex receptacles to classrooms Power Connection for Rooftop Unit Power Connection for Air Handler (7.5 HP) Power Connections for (3) Condensing Units Power Connection for Roof mounted air cooled condensing unit Power Connections for Kitchen hoods (total 2) Includes shutdown of appliances	\$ 10,000.00 \$ 4,000.00 \$ 4,000.00 \$ 7,500.00 \$ 4,000.00 \$ 8,000.00	Medium High High Low High High

Systems	Description	Cost	Priority
Lighting	Building-wide upgrade to LED lighting. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 21,281.00	Medium
Low Voltage	Sub Total	\$ 15,548.00	
A/V Systems	Integrated A/V system in each classroom	\$ 15,548.00	Low
IT Equipment	Expand Main Data Rack to accommodate Clock/Program/PA and camera POE connections. Rack, patch panel and UPS	\$ 15,000.00	High
Safety & Security Systems	Sub Total	\$ 130,938.00	
Clock/Program/Public Address System	Install new Clock/Program/PA, IP-based system that includes messaging as was installed in the Elementary Schools in the recent Safety-Security Upgrade	\$ 26,432.00	High
Fire Alarm	Replace with new Fire Alarm System and Voice Evacuation	\$ 62,192.00	Medium
Door Access System	Building has an electronic door access system installed at only 3 Entries. Expand door monitoring and access to entire school, including Vo-Tech	\$ 20,212.00	High
Surveillance Camera System	Building has IP based POE surveillance cameras at three entries. Install cameras at all other entry doors	\$ 17,102.00	High
Exit/Emergency Lighting	Add exterior emergency egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ -	
No Work	There is currently no work required	NA	NA
Doors	Sub Total	\$ 43,000.00	
Exterior Doors	Replace all exterior doors and frames with new galvanized hollow metal frames and galvanized hollow metal insulated level 4 doors.	\$ 23,000.00	High
Interior Doors	Replace all interior doorknobs with lever sets.	\$ 20,000.00	High
Exterior Cladding	Sub Total	\$ 27,000.00	
Masonry	Repaint the exterior CMU	\$ 16,000.00	Low
Exterior Stair	Replace the metal railing to a guard railing 42" tall and to not allow a sphere larger than 4" from being able to pass through it.	\$ 11,000.00	High
Accessibility	Sub Total	\$ 75,000.00	
Parking	To meet the necessary slope and grade from the parking to the building, there will need to be some regrading, and the ADA parking spot sill need to be raised by at least one foot.	\$ 50,000.00	Medium
Restrooms	Renovate one men's and one women's restroom and renovate it to meet the accessible clearances. This will require that one fixture is removed from each and the partitions get rebuilt.	\$ 25,000.00	High
Roofing	Sub Total	\$ 381,024.00	
Reroof	Roof Section: A, B, C	\$ 381,024.00	High

May Butler Center

Low Priority Items Subtotal:	\$	27,400.00
Medium Priority Items Subtotal:	\$	281,300.00
High Priority Items Subtotal:	\$	291,506.00
Total Estimate:	\$	600,206.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 157,000.00	
Parking Lot	Replace Parking Lot and Install onsite retainage and storm drain to code 13,200 sq ft	\$132,000	Medium
Wooden Retaining Wall	Replace with concrete retaining wall	\$25,000	Medium
HVAC System	Sub Total	\$ 203,900.00	
Heating System	(2) Weil McLain Cast Iron Sectional Boilers Model MGB-5 date 1983	\$ 135,000.00	Medium
	(2) Taco Base Mounted Circ Pumps	\$ 8,500.00	Medium
	3-way control valve for system reset control		NA
Ventilation	Temptrol central Air Handler	\$ 42,000.00	Medium
	Perimeter fintube for space temperature control		No Action
	Cabinet heaters in the vestibule and hallways	\$ 4,600.00	Medium
Cooling	(4) Air Cooled Condensing Units - Carrier 5-Ton for AHU	\$ 13,800.00	Medium
	(1) Split System 3-ton in data room - Mitsubishi		No Action
Plumbing System	Sub Total	\$ 31,400.00	
	Plumbing Fixtures in Fair Condition	\$ 16,500.00	Medium
	Cast Iron Sanitary Sewer - Fair/Poor	\$ 8,500.00	Medium
	Bradford White Model MI40T, Gas Fired	\$ 2,400.00	Medium
	No domestic tempering valve	\$ 1,650.00	High
	No backflow preventer on water service	\$ 2,350.00	High
Fire Suppression System	Sub Total	\$ 44,500.00	
	No Fire Suppression System	\$ 44,500.00	High
Control System	Sub Total	\$ 57,900.00	
	VFD on AHU	\$ 4,200.00	Low
	Fico DDC controller on AHU	\$ 11,200.00	Low
	Pneumatic space temp controls	\$ 42,500.00	High
Electrical System	Sub Total	\$ 20,000.00	
Building Service	No upgrades required		NA
Distribution	No upgrades required		NA
Branch Circuiting	Power Connections for Boilers	\$ 5,000.00	Medium
	Power Connections for (2) Circ Pumps	\$ 1,000.00	Medium
	Power Connections for Cabinet heaters in the vestibule and halls	\$ 2,500.00	Medium
	Power Connections for (4) Air Cooled Condensing Units	\$ 3,000.00	Medium
	Power Connection for A/C in data room	\$ 1,000.00	No Action
Lighting	Building-wide upgrade to LED lighting. Replacement of existing fluorescent with LED fixtures and controls is recommended.	\$ 7,500.00	Medium
Low Voltage	Sub Total	\$ 15,000.00	
IT Equipment	Expand Main Data Rack to accommodate Clock/Program/PA and camera POE connections. Rack, patch panel and UPS	\$ 15,000.00	High
Safety & Security Systems	Sub Total	\$ 83,117.00	
Clock/Program/Public Address System	Install new Clock/Program/PA, IP-based system that includes messaging as was installed in the Elementary Schools in the recent Safety-Security Upgrade	\$ 17,513.00	High
Fire Alarm	Fire Alarm not required for Type B Occupancy. Optional	\$ 20,604.00	NA
Door Access System	Install electronic door access system installed at entries and monitor other exterior doors.	\$ 20,000.00	High

Systems	Description	Cost	Priority
Surveillance Camera System	Install IP based POE surveillance cameras at entries and towards parking lot	\$ 20,000.00	High
Exit/Emergency Lighting	Add exterior emergency egress lighting	\$ 5,000.00	Medium
Windows	Sub Total	\$ 79,000.00	
Exterior Aluminum Windows	The leaking operable windows should have their seals replaced and if this doesn't fix the issue new systems should be installed.	\$ 79,000.00	High
Doors	Sub Total	\$ 37,000.00	
Exterior Doors	The wood doors should be replaced with new insulated hollow metal door and hollow metal frame.	\$ 5,000.00	High
	The entrance and stair Hollow Metal doors should be replaced with aluminum glass storefronts.	\$ 12,000.00	High
Interior Doors	Replace all interior doorknobs with lever sets.	\$ 20,000.00	Medium
Exterior Cladding	Sub Total	\$ 6,000.00	
Soffits	Replace the wood soffit with vented metal soffit	\$ 6,000.00	Medium
Accessibility	Sub Total	\$ 37,000.00	
Parking	Pour a new concrete parking pad for the ADA spot.	\$ 12,000.00	Low
Restrooms	Renovate one men's and one women's restroom and renovate them to meet the accessible clearances. This will require that one fixture is removed from each and the partitions get rebuilt.	\$ 25,000.00	High
Roofing	Sub Total	\$ 6,993.00	
Reroof	Roof Section: B, C	\$ 6,993.00	High

Maintenance Building

Low Priority Items Subtotal:	\$	-
Medium Priority Items Subtotal:	\$	182,950.00
High Priority Items Subtotal:	\$	45,000.00
Total Estimate:	\$	227,950.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 150,000.00	
Maintenance shop unpaved outside work area	Install onsite retainage and storm drain to code and new asphalt surface	\$ 150,000.00	Medium
HVAC System	Sub Total	\$ 32,100.00	
Ventilating	(2) Goodman Furnaces provide HVAC in Office Space. Units equipped with economizer cooling		No Action
	Infra-red heat in the shop space		No Action
	Make-up Unit/exhaust fan for paint room		No Action
	Dedicated Vehicle Exhaust system		No Action
	Weld Area fume hood - Rollout issues	\$ 6,500.00	Medium
	Shop Area equipped with CO Monitoring		No Action
	Wood Shop Dust collector - Relocated	\$ 25,600.00	Medium
Cooling	No Mechanical Cooling in the building		No Action
Plumbing System	Sub Total	\$ 850.00	
	No solids separator on paint wash-down sink	\$ 850.00	Medium
	Fixtures in good condition		No Action
	30 gallon Electric Water Heater		No Action
Fire Suppression System	Sub Total	\$ 45,000.00	
	No Fire Suppression System	\$ 45,000.00	High
Control System	Sub Total	\$ -	
	7-day programmable thermostats on Equipment		No Action
Windows	Sub Total	\$ -	
No Work	There is currently no work required.	NA	NA
Doors	Sub Total	\$ -	
No Work	There is currently no work required.	NA	NA
Exterior Cladding	Sub Total	\$ -	
No Work	There is currently no work required.	NA	NA
Accessibility	Sub Total	\$ -	
No Work	There is currently no work required.	NA	NA

Lincoln

Low Priority Items Subtotal:	\$	15,000.00
Medium Priority Items Subtotal:	\$	220,028.00
High Priority Items Subtotal:	\$	99,775.00
Total Estimate:	\$	334,803.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ 138,375.00	
Existing parking lot	Layout and Pave existing parking lot Cost will be impacted by location of nearest storm drain connection	\$ 115,200.00	Medium
Existing playground	Repair cracks, repair potholes and sealcoat entire area	\$ 12,375.00	Low
Sidewalks	Remove and replace sidewalks	\$ 10,800.00	Medium
HVAC System	Sub Total	\$ -	
No Work	There is currently no work required.	\$ -	NA
Plumbing System	Sub Total	\$ -	
No Work	There is currently no work required.	\$ -	NA
Fire Suppression System	Sub Total	\$ -	
No Work	There is currently no work required.	\$ -	NA
Control System	Sub Total	\$ -	
No Work	There is currently no work required.	\$ -	NA
Electrical System	Sub Total	\$ 13,028.00	
Building Service	Replace existing service disconnects with single 600 amp Main Breaker	\$ 10,775.00	High
Distribution	Install new 600 amp distribution board to replace wiring gutter and disconnects in basement with feeder	\$ 30,000.00	High
Lighting	Building was recently upgraded to LED lighting except gymnasium and storage areas.	\$ 5,000.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls	\$ 8,028.00	Medium
Safety & Security System	Sub Total	\$ 10,000.00	
Clock/Program/Public Address System	The Clock/Program/PA system is part of the new IP-based system that includes messaging and was installed in the recent Safety-Security Upgrade		No Action
Fire Alarm System	Building has a Fire Alarm System. Type B Occupancy. No upgrade required		No Action
Door Access System	Building has an electronic door access system installed in recent Safety-Security Upgrade		No Action
Surveillance Camera System	Building has IP based POE surveillance cameras at all entries with 2 hour UPS power backup installed with Safety-Security Upgrade		No Action
Exit/Emergency Lighting	Add exterior egress lighting	\$ 10,000.00	Medium
Windows	Sub Total	\$ 131,000.00	
Main Building Windows	Replace all the existing aluminum clad wood windows with single pane glazing. The new system should be thermally broken aluminum framed windows with double pane low-e glazing	\$ 125,000.00	Medium
Small Outbuilding Windows	Replace the Single Pane glazed and aluminum windows with new thermally broken aluminum framed windows with double pane low-e glazing.	\$ 6,000.00	Low
Doors	Sub Total	\$ 32,000.00	
Main Building Interior Doors	Replace all interior doorknobs with lever sets.	\$ 19,000.00	High
Main Building Exterior Doors	Replace the five exterior man doors with new insulated Hollow metal doors and frames.	\$ 13,000.00	High

Systems	Description	Cost	Priority
Exterior Cladding	Sub Total	\$ 81,000.00	
Main Building Cladding	Replace all prefinished paneling with a more durable fiber panel or metal paneling.	\$ 72,000.00	Medium
Small Outbuilding Siding	The small outbuilding modular is also T111 however this siding on the older building is in worse space and should eventually be replaced.	\$ 9,000.00	Low
Accessibility	Sub Total	\$ 27,000.00	
Main Building ADA Restrooms	Renovate two sets of restrooms so a male and female restroom are fully accessible to the public.	\$ 5,000.00	High
ADA Parking	Pour new concrete ADA parking spots with all slope and cross slopes meeting requirements to all three buildings.	\$ 12,000.00	High
Small Outbuilding Ramp and Stair	Replace the ramp and stair system on the small outbuilding.	\$ 10,000.00	High

7th Avenue Gym

Low Priority Items Subtotal:	\$	225,436.00
Medium Priority Items Subtotal:	\$	490,211.00
High Priority Items Subtotal:	\$	1,044,623.00
Total Estimate:	\$	1,760,270.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ -	
No Work	There is currently no work required.	NA	NA
HVAC System	Sub Total	\$ 279,850.00	
Ventilation	Central Building Air Handler - Temptrol with Wing Coil	\$ 84,500.00	Low
	Unit Heaters provide heat in building currently	\$ 21,500.00	Low
	Electric Cabinet Heater in Janitors Closet	\$ 950.00	Low
Heating	(3) Burnham cast iron sectional boilers Model 810B-WI	\$ 145,000.00	Medium
	(2) base mounted Taco pumps	\$ 9,400.00	Medium
	(2) abandoned fire tube (Locomotive) boilers in boiler room	\$ 18,500.00	Low
Plumbing System	Sub Total	\$ 82,250.00	
	Plumbing Fixtures in good condition	\$ 28,500.00	Medium
	Floor Drains in shower room revised	\$ 14,500.00	Medium
	Cast Iron Sanitary Sewer in fair/poor condition	\$ 32,000.00	High
	Lochinvar Gas Water heater	\$ 7,250.00	Medium
Fire Suppression System	Sub Total	\$ 62,000.00	
	Building not equipped with fire suppression	\$ 62,000.00	High
Control System	Sub Total	\$ 27,800.00	
	Burnham boiler sequencer	\$ 11,300.00	Medium
	Pneumatic controls throughout building	\$ 16,500.00	High
Electrical System	Sub Total	\$ 37,043.00	
Building Service	Replace existing service disconnects with single 600 amp Main Breaker	\$ 10,775.00	Low
Distribution	Install new 600 amp distribution board	\$ 17,036.00	Low
Branch Circuiting	Power Connections for Boilers	\$ 5,000.00	Medium
	Power Connection for Central Building Air Handler	\$ 10,000.00	Low
	Power Connections for Unit Heaters	\$ 4,000.00	Low
	Power Connection for Electric Cabinet Heater in Janitors Closet	\$ 175.00	Low
	Power Connections for (2) base mounted Taco pumps	\$ 2,000.00	Medium
Lighting	Building-wide upgrade to LED lighting except gymnasium if Bldg used for Type A-3 Occupancy. Replacement of existing fluorescent with LED fixtures and controls.	\$ 17,203.00	Medium
	Gymnasium lighting upgrade to LED and automatic controls if Bldg used for Type A-3 Occupancy	\$ 19,840.00	Medium
Safety & Security System	Sub Total	\$ 166,341.00	
Clock/Program/Public Address System	Install new Clock/Program/PA, IP-based system that includes messaging as was installed in the Elementary Schools in the recent Safety-Security Upgrade if Bldg used for Type A-3 Occupancy	\$ 19,203.00	Medium
Fire Alarm System	Replace with new Fire Alarm System and Voice Evacuation if Bldg used for Type A-3 Occupancy	\$ 76,812.00	Medium
Door Access System	Install electronic door access system if Bldg used for Type A-3 Occupancy	\$ 19,203.00	Medium
Surveillance Camera System	Install IP based POE surveillance cameras at entrances and on sides of building	\$ 21,123.00	High

Systems	Description	Cost	Priority
Exit/Emergency Lighting	Add interior emergency egress lighting units if Bldg used for Type A-3 Occupancy	\$ 15,000.00	Medium
	Replace Exit Signs with new LED if Bldg used for Type A-3 Occupancy	\$ 5,000.00	Medium
	Add exterior emergency egress lighting if Bldg used for Type A-3 Occupancy	\$ 10,000.00	Medium
Windows	Sub Total	\$ 147,000.00	
Original Wood Windows	These windows need being replaced, but the building is on the Historic Registry and will require historically accurate custom replacement windows. I would recommend an aluminum clad wood window with double pane low-e glazing.	\$ 147,000.00	High
Doors	Sub Total	\$ 75,000.00	
Exterior Doors	It would be recommended to replace the doors with a more historically accurate exterior door and hardware system.	\$ 32,000.00	High
Interior Doors	Replace the interior doors with historically accurate wood panel doors have lever sets in place of the knobs.	\$ 43,000.00	Low
Exterior Cladding	Sub Total	\$ 540,000.00	
Masonry	Repoint mortar joints	\$ 50,000.00	High
	Seismically Upgrade Exterior Masonry Walls	\$ 250,000.00	High
Cornice, Fascia, and Soffit	Restore the cornice, fascia, and soffit on the roof	\$ 15,000.00	Low
Second Floor Track	Structurally renovate the second-floor track to allow for future use. It is extremely hard to estimate the cost for this work, but it will be high.	\$ 150,000.00	High
Rubble Foundation	Restore and reinforce the rubble stone foundation and walls. This will likely require structural seismic Reinforcement	\$ 75,000.00	High
Accessibility	Sub Total	\$ 294,000.00	
Parking	Replace the parking spot with an ADA accessible one.	\$ 12,000.00	High
Accessible Route	Install a lift in place of the left interior main stair. Renovate the basement to create accessibility.	\$ 160,000.00	High
	Install a ramp to access the basement lowest public level	\$ 25,000.00	High
Restrooms	Renovate the Main Restroom	\$ 12,000.00	High
	Renovate the Basement Restrooms and Locker Rooms	\$ 85,000.00	Medium

Vigilante Stadium

Low Priority Items Subtotal:	\$	97,180.00
Medium Priority Items Subtotal:	\$	26,500.00
High Priority Items Subtotal:	\$	15,000.00
Total Estimate:	\$	138,680.00

Systems	Description	Cost	Priority
Site	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
HVAC System	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Plumbing System	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Fire Suppression System	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Control System	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Electrical System	Sub Total	\$ 15,180.00	
Building Service	No upgrades required		NA
Distribution	Replace Press Box Load Center with new	\$ 6,100.00	Low
Branch Circuiting	Add receptacles in Press Box	\$ 3,580.00	Low
	Add fixed electric heat to Press Box	\$ 2,500.00	Low
Lighting	Upgrade Concessions Building to LED lighting.	\$ 3,000.00	Low
Low Voltage	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Safety & Security Systems	Sub Total	\$ 26,500.00	
Surveillance Camera System	Install IP based POE surveillance cameras at Concessions Building, Ticket Booths and Storage Areas. Connect to HMS data rack	\$ 25,000.00	Medium
Exit/Emergency Lighting	Add emergency egress lighting unit to Press Box	\$ 1,500.00	Medium
Windows	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA
Doors	Sub Total	\$ 15,000.00	
Grandstand	Replace both the man door and the overhead door on the storage under the grandstand.	\$ 15,000.00	High
Exterior Cladding	Sub Total	\$ 82,000.00	
Grandstand	Replace the Metal Siding with a more durable material that will not get as damaged in future use.	\$ 70,000.00	Low
Concession	Replace the prefinished panels with fiber cement siding that match the new ticket booths.	\$ 12,000.00	Low
Accessibility	Sub Total	\$ -	
No Work	Currently no recommendations	\$ -	NA