



Geneva Community Unit School District #304  
Operations and Maintenance  
7 Year Capital Improvement Plan

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## Finance Advisory Committee

February 12, 2018





Geneva Community Unit School District #304  
Operations and Maintenance  
7 Year Capital Improvement Plan

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# Geneva Community Unit School District #304 Operations and Maintenance 7 Year Capital Improvement Plan

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## Introduction

This report analyzes the existing facilities and their related conditions. It takes a look at the next seven years in which the highest priority needs will be addressed first. These priorities will be based on financial considerations such as cost and efficiencies, condition of existing facilities, code compliance, and the comfort and safety of our buildings. While it is difficult to imagine every possible scenario that our buildings face, I have compiled a comprehensive outlook of the present facilities based on current conditions. This report covers all buildings and grounds the District owns and estimates the funding required to maintain our properties at an optimal teaching and learning environment. Projected costs by building are included in the Appendix. The Seven Year Capital Improvement Plan is intended to provide the information needed to assist the District Board of Education and Administration with the decisions they will face with regard to future financial support of our buildings.

Respectfully Submitted,

Scott K. Ney  
Director of Facility Operations  
Geneva Community Unit School District #304

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# Geneva High School





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# Geneva High School

## Building Summary

Originally built in 1958, the high school has undergone four major additions (1964, 1967, 1973, and 2001). The building is 390,331 square feet built on 10 acres and has a capacity of 1,800 students. The Master Facilities Plan from 2005 called for the high school to be expanded and renovated. Due to economic conditions, the \$85+ million project was put on hold. The athletic area to the northwest encompasses 37 acres and houses the athletic and P.E. fields for the high school.

The Taco **secondary pumps** were 16 years old and reaching the end of their expected service life before they were replaced with the new B&G pumps. Several of the parts were no longer available for these pumps and the remaining option was to replace the entire pump. We replaced three of the pumps last year and the remaining pumps in 2017 so all of the equipment is reliable, efficient and parts are readily available in the event of a failure. The **carpeting** was replaced in the A hallway classrooms, Library classrooms EE184, EE188 and EE192. It was seventeen years old and was showing extreme wear and fraying. The seventeen year old Fritz quartz **floor tile** was also replaced in the Mack Olson gym corridor. The **tennis courts** that were starting to show excessive and deep cracking on the courts have been resurfaced. These costs were shared with the Park District through an Intergovernmental Agreement.

Several additional capital improvements are needed in the next seven years. The seven **air handlers** that serve the library, Mack Olson Gym, cafeteria, kitchen, auditorium and weight room are all over 43 years old and are in need of updating. Since they all are housed inside the building, the shells of the units are in good condition. We recommend replacing the bearings, shafts and motors to improve reliability and efficiency. Any new equipment will be installed with new **DDC controls** to continue the conversion of the high school from pneumatic controls. **Flooring** has been an ongoing concern for several years. The existing carpet is at least 18 years old and in some areas even older. The Fritz quartz tile that was installed in 2000 has not performed well. It is cracking throughout the building and has faded considerably. We are replacing small sections of flooring in phases due to budgeting restrictions. The **stagecraft and cafeteria bathrooms** are over 43 years old and showing significant wear. We need to update the bathrooms which would include new flooring, update plumbing, fixtures, sinks and toilets. The **stage and house lighting in the auditorium** is starting to fail and the parts for the lighting panel are becoming obsolete and no longer available. We will need to update the entire lighting system. The **roof on the southwest side** of the building was installed in the 90's and the typical life cycle of a roof is 25 years. The roof will need to be replaced in the next two to three years. The **parking lots** were resurfaced the summer of 2013. Crack filling and sealcoating will be needed in the next two to four years. The **existing galvanized piping** is deteriorating throughout the building and has started leaking in several areas. We will need to replace the old piping with copper piping and provide new ball valves for adequate shut-off. The two **500 gallon PVI hot water heaters** will need to be replaced within the next seven years. The **heating ventilation and air conditioning (HVAC)** equipment at 301 McKinley maintenance garage is nearing the end of its estimated service life according to ASHRAE. **Track resurfacing** will be needed this year. The track is starting to show excessive wear and cracking. The estimated life cycle of a track is eight to ten years. An additional **storage shed** will be needed in the athletic area of Burgess Field for gym and athletic storage. The **synthetic turf** has a typical life cycle of eight to twelve years based on usage. We are budgeting over the next several years to have the money available when the renewal maintenance is due.

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Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers. It is recommended that additional **security cameras** be added to both **interior** and **exterior** locations based on security assessments and the needs of the administration to monitor, prevent, deter and assist in investigations when incidents occur. Additional **FOB access control** readers need to be added to the Health Office and the Band Room to enhance security to those areas.

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# Geneva High School



## HVAC Controls

Pneumatic to Digital conversion will be computer based, allowing for tighter control of temperature, setback features, and an alarming features.



## Auditorium Lighting Replacement

Parts for lighting panel are becoming obsolete and starting to fail.

Replace with energy efficient fixtures and lighting panel.



## Carpet

The carpet is starting to fray and cause trip hazards.

Carpet will need to be replaced.

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# Geneva High School



## Flooring

Existing quartz tile is cracking and has faded.

Replace tile in phases.



## Cafeteria and Stagecraft Bathrooms

Bathrooms are 43 years old.

Showing significant wear.

Need to update.



## Hot Water Heaters

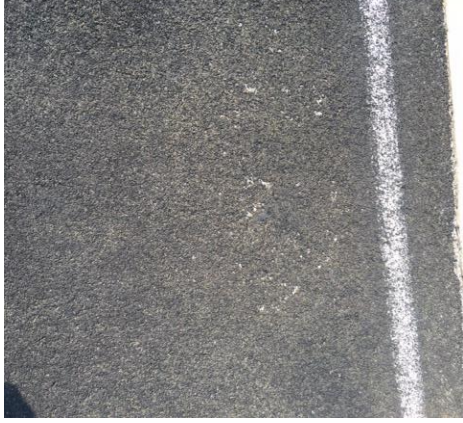
The two 500 gallon PVI water heaters are nearing the end of their life cycle.

Replacement will be needed within the next seven years.



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# Geneva High School



**Track Resurface**

The track is starting to show excessive wear and nearing the end of its estimated life cycle.

Replacement will be needed this year.

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# Geneva Middle School North



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# Geneva Middle School North

## Building Summary

Originally opened in 2006, Geneva Middle School North was patterned after Geneva Middle School South and built to alleviate the overcrowding occurring at South due to the growth the District was experiencing. The school is a 2-story building with a small basement area for mechanical equipment. It is constructed of noncombustible building materials including masonry bearing walls, steel framing and pre-cast concrete. The total building consists of 198,000 square feet and is built on the 65 acre site shared with Middle School South. It has a student capacity of 1,100.

Dahlquist & Lutzow Architects (DLA Ltd) performed the 10-Year Health Life Safety Survey in April 2015 for GMSN. They provided the district with six “A” items that needed immediate attention and 11 “B” items that need to be addressed over the next two to four years. The “A” and “B” repairs that were documented on the survey have been sent to ISBE and we are required to repair all code violations in the proper time frame. All “A” items were repaired during the summer of 2016.

The existing **Direct Digital Controls** system (Lon) is outdated and costly to repair. It is scheduled to be converted to the ASHRAE standard BACnet control. The **air conditioning system for the IT server room** is oversized for the heat load and continually cycles on and off, causing a condensation issue for that room and premature equipment failure. It is recommended that a smaller tonnage system be installed in conjunction with the current system and if the server size increases as well as the heat load, the existing system will be there to handle the load. Additionally, the **LMC air handling unit** is undersized for cooling when the outside air temperature is above 80 degrees. The airflow needs to be increased and can be done without replacing the entire air handling unit by resheaving the pulleys on the shaft, adding four to six more VAV boxes with reheat coils and controls. The typical life cycle of a commercial hot water heater is 12 to 15 years. The two **300 gallon PVI hot water heaters** are original to the building and will need to be replaced within the next seven years. Finally, the **parking lot** will need to be sealcoated within the next seven years.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During security assessments along with conversations with the administrators at the building and first responders, strategic locations were identified to add both **interior and exterior security cameras** to monitor, prevent, deter, and to assist with investigations when incidents occur.

Lastly, **security traffic bollards** were recommended to be added in front of the building to provide protection to both students and staff along with protecting the structure of the building.

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# Geneva Middle School North



## Lon Controller

Lon controls throughout the building.

Outdated and costly to repair.

Replace Lon to BACnet.



## IT Server A/C

Oversized for heat load of space.

Cycles on and off continually causing condensation issues and premature equipment failure.

Replace with properly sized unit.



## LMC

AHU is undersized for space.

Only two VAV boxes serving the space.

Recommend increasing the capacity of the AHU and adding four to six VAV boxes with controls to increase comfort and control humidity.



## Hot Water Heaters

The two 300 gallon PVI water heaters are nearing the end of their life cycle.

Replacement will be needed within the next seven years.



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# Geneva Middle School South



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# Geneva Middle School South

## Building Summary

Constructed in 1993 and opened in 1994, Geneva Middle School South has undergone three additions. Cafeteria expansion, additional classroom space, a third gymnasium and the Friendship Station Preschool were added. The building is a two story building with a small basement area for mechanical equipment. It is constructed of noncombustible building materials including masonry bearing walls, steel framing and precast concrete. The total building now consists of 246,253 square feet and is built on the 65 acre site shared with Middle School North. It has a student capacity of 1,281 including Friendship Station.

The referendum construction project of 2007-09 brought needed attention to several areas including ADA and building code requirements, roof replacement, security, and HVAC repairs. All carpet was replaced during the project. Technology improvements such as cabling, wireless access points and projectors were added. A key fob system and AI phone video entry system were added. The library furniture and shelving were replaced. The interior spaces were renumbered and new signage for each space was added.

Dahlquist & Lutzow Architects (DLA Ltd) performed the 10-Year Health Life Safety Survey in April 2015 for GMSS. They provided the district with six “A” items that needed immediate attention and 12 “B” items that need to be addressed over the next two to four years. The “A” and “B” repairs that were documented on the survey have been sent to ISBE and we are required to repair all code violations in the proper time frame. All “A” items were repaired during the summer of 2016. The **fire lane** was resurfaced this year and the **interior locking mechanism** in the remaining classrooms where teachers are not able to lock their doors from the inside have been installed. By completing this project, all classrooms will be at the same standard.

The **contest gym flooring** is showing excessive wear and needs to be resurfaced and sealed. The **stage lighting** in the cafeteria is original to the building, starting to fail and will need to be updated within the next three years. The **ceiling tile and grid** throughout the building is starting to show signs of wear and discoloration. Replacing the ceiling tile and grid should be completed in sections; we are recommending the first phase to include the main office area, athletic and technology wings. The existing **temperature control** system (Lon) is outdated and costly to repair. It is scheduled to be converted to the ASHRAE standard BACnet control. A new **hot water make-up air unit** needs to replace the gas-fired one for efficiency and freeze protection. Two **air handlers** equipped with **direct expansion (DX) cooling** are in need of cooling upgrades. It is proposed to add a **chiller** for efficiency and reliability, replacing old, inefficient and noisy roof-top DX units. The **Bryan boilers and primary Taco pumps** are original to the building and are nearing the end of their estimated service life according to ASHRAE. They are in need of replacement within the next five to seven years. The **hot water storage tank** is original to the building and will need to be replaced in the next seven years. The **parking lot** was resurfaced the summer of 2013 and will need to be crack filled and sealcoated within the next two to five years.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

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During security assessments along with conversations with the administrators at the building and first responders, strategic locations were identified to add both **interior and exterior security cameras** to monitor, prevent, deter and to assist with investigations when incidents occur.

Lastly, **security traffic bollards** were recommended to be added in front of the building to provide protection to both students and staff along with protecting the structure of the building.

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# Geneva Middle School South



## Ceiling Tile

Ceiling grid and tile are starting to show excessive discoloration and wear.

Replace ceiling grid and tile.



## Lon Controller

Lon controls throughout the building.

Outdated and costly to repair.

Replace Lon to BACnet.



## Boiler Replacement

24-year old boilers are inefficient and nearing the end of their estimated service life as per ASHRAE.

Replace with new high efficiency boilers.



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# Harrison Street Elementary School



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# Harrison Street Elementary School

## Building Summary

Originally opened in 1928, Harrison Street Elementary School has had seven additions. The original building was constructed of noncombustible construction except for the roof which is wood framing. The original structure is two stories plus a basement, and the additions are all one story. All the additions were constructed of fire resistant construction, with masonry bearing walls. The building is equipped with a standby 80 kW natural gas emergency generator supplying power to emergency lighting/exit signs, fire alarm system, fob system, boilers, heating pumps, sump pumps and the new digital temperature control system.

It was completely renovated in 2009 to upgrade the HVAC, plumbing, lighting, ceilings, ceramic tile/carpet, restrooms, technology, roof, windows, concrete repairs, an addition to the sprinkler system and ADA requirements including a new chair lift for the stage. All blackboards were replaced with whiteboards. The classrooms and library were outfitted with new furniture and bookcases. The entire building was repainted and several doors were replaced. A key fob system was added as well as an AI phone video entry system. The two playgrounds were combined and equipment replaced. The kindergarten playground area was landscaped to be used as a teaching and play area. The building sits on 10 acres, has 90,684 square feet of space and a capacity of 550 students.

The building is in excellent shape and only in need of a few upgrades. Many of the fifteen **cabinet unit heaters** are older and will need to be replaced as fans fail. Several **air handling units** should either be rebuilt or replaced including the library unit, the art room and the teacher's workroom/conference room area. The **radiant heat** in the glass hallway (kindergarten wing) should be replaced to provide proper heating to that space. The two **Weil McLain Boilers and B&G secondary pumps** were installed in 1999 and are nearing the end of their estimated service life according to ASHRAE. They are in need of replacement for optimal efficiency. The **parking lot** will need to be crack filled and sealcoated within the next two to four years.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist with investigations when incidents occur.

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# Harrison Street Elementary School



## Cabinet Unit Heaters

15 units are over 37 years old.

Replace with energy efficient units.



## Air Handling Unit

Needs rebuilding or possible replacement.

New motor, shaft, bearings and controls needed.



## Boiler and Secondary Pumps Replacement

19 year old boilers and pumps nearing end of their estimated service life as per ASHRAE.

Need to be replaced with energy efficient design.



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# Western Avenue Elementary School





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# Western Avenue Elementary School

## Building Summary

Built in 1964, Western Elementary School is a 62,832 square foot, one-story building built on 14.18 acres. It has undergone two additions and has a student capacity of 561. The original building was constructed of cavity wall construction consisting of block and brick, with 1" cavity insulation. The additions were constructed of similar cavity walls. The windows are uniform throughout the building consisting of fixed panels with 1" insulated glass, fixed panels glazed with an aluminum insulating panel and a small operating hopper sash. There is a small mechanical mezzanine located on the roof. The exterior brick is in good condition. The building was originally constructed with asbestos containing material and much of it was abated or encapsulated. The building is equipped with a 60 kW natural gas emergency generator supplying power to the emergency lighting and exit signs, the key fob system and the new digital temperature control system.

The building was completely renovated in 2009 to upgrade the HVAC, plumbing, lighting, ceiling, flooring, restrooms, technology, sprinkler/fire alarm system, roof, concrete repairs and ADA requirements including a new chair lift for the stage. All blackboards were replaced with whiteboards. The library received partial replacement of bookcases. The entire building was repainted and many doors were replaced. A key fob system was installed as well as an AI phone video entry system. The playground was replaced.

The **gym roof** was installed in the early 2000s and the typical life cycle of a roof is 25 years. The roof was scheduled to be replaced in the Capital Improvement Plan within the next five years. On January 10, 2017 the roof membrane had separated due to wind and delaminated from the ISO insulation beneath it. Gallagher Bassett approved the replacement for deductible. All costs were shared with the Geneva Park District. A section of the **hot water and chilled water piping** for the heating, ventilation, and air conditioning system failed this past year and needed to be replaced. The piping was rusted through and began leaking from the ceiling. This was completed over the summer of 2017.

The building is in excellent shape and is only in need of a few mechanical and interior improvements. Several **interior doors** are damaged and starting to show excessive wear. Nine **cabinet unit heaters** are over 22 years old and in need of replacing. The **gym AHU** is aging and needs to be rebuilt with a new motor, bearings and shaft and the cost will be shared by the Geneva Park District. The two **Bryan boilers** are 28 years old and nearing the end of their estimated service life and will need to be replaced. The **parking lot** will need to be crack filled and sealcoated this year.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist as an investigative tool when incidents occur.

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# Western Avenue Elementary School



## Cabinet Unit Heaters

9 units are over 22 years old.

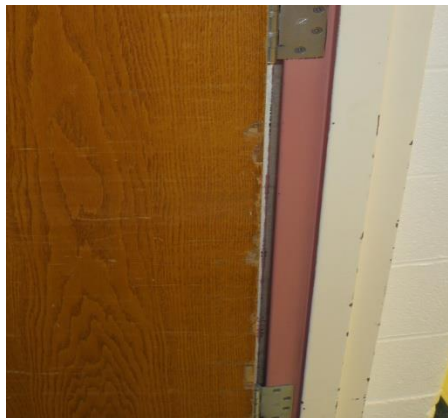
Replace with energy efficient units.



## Boiler Replacement

28-year old boilers are inefficient and nearing the end of their estimated service life as per ASHRAE.

Replace with new high efficiency boilers.



## Interior Doors

Several doors in the building are damaged and in need of replacement.

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## Western Avenue Elementary School



### Parking Lot

Several areas are starting to show cracking and wear.

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## Mill Creek Elementary School





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# Mill Creek Elementary School

## Building Summary

Originally built in 1995, this 92,015 square foot building is built on 17.6 acres. It has a student capacity of 564. The building is a split-level design. It was constructed of noncombustible materials. The interior structure is columns and beams and exterior masonry bearing wall construction. Roofs are steel joists with steel trusses.

A 28,775 square foot addition was added in 2006, providing a five classroom wing, music/band rooms, a second wood floor gym and much needed storage. The building was partly renovated during the last referendum construction project.

The foundation settling issue and the leaking problem from the 2006 addition have been addressed and fixed. Code related issues like fire rated doors, emergency lighting and drainage issues were also addressed. The building temperature control system was upgraded to digital and several mechanical issues were completed. A key fob system and AI Phone video entry system were installed.

Overall, Mill Creek is in excellent condition and only in need of a couple minor upgrades. The **temperature controls** should be converted to the ASHRAE Standard BACnet controls from the outdated and costly Lon Controls. The **mechanical cooling** for the office area is currently served off a large air handling unit that also serves the main classroom wing. Since most of the cooling season occurs when the students are on summer break, cooling the office space is costly and inefficient. We propose adding a separate, small air handling unit to serve the office area and re-ducting the office area off of the main classroom area. The two **Kewanee boilers and primary boiler pumps** are original to the building and nearing the end of their estimated service life as per ASHRAE. The 85 gallon A.O Smith **hot water heater** was installed in 2002 and is nearing the end of its expected life cycle. The **front parking lot** will need to be crack filled and sealcoated this year. The **Simplex 4020 fire panel** will need to be replaced; it is original to the building and starting to have escalating repair costs and consistent breakdowns.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist as an investigative tool when incidents occur.

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# Mill Creek Elementary School



## **Lon Controller**

Lon controls throughout the building.

Outdated and costly to repair.

Replace Lon with BACnet controls.



## **Boiler Replacement**

Boilers are 22 years old and original to the building.

Nearing the end of their estimated service life as per ASHRAE.



## **Primary Boiler Pumps**

Original to the building.

Need replacing with energy efficient design.



## **Fire Alarm System**

Simplex fire alarm system needs to be updated.

Escalating repair costs and consistent breakdowns.

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# Heartland Elementary School



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## Heartland Elementary School Building Summary

Built in 2002, this 77,447 square foot building sits on 11 acres. It has a student capacity of 550. The building footprint is similar to Mill Creek Elementary School. The building is a split-level design, constructed of noncombustible materials. The interior structure is columns and beams and the exterior is masonry bearing wall construction. The roofs are steel joists and trusses. The building is equipped with a standby 100 kW natural gas generator supplying power to emergency lighting and exit signs, fire alarm system, fob system, intercom system, heating pumps, sump pumps and the digital temperature control system.

The building is in excellent shape and there are only a couple of deficiencies that need to be addressed. The two **chilled water pumps** need **variable frequency drives (VFD)**. This will greatly increase energy efficiency and lengthen the life of the pumps. The **carpet** will need to be replaced in the near future due to age, wear and extensive staining. The **air handling unit (AHU)** that controls the server room is nearing the end of its life cycle and will need to be replaced in the next two to four years. The **parking lot** will need to be crack filled and sealcoated in the next two to four years.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist as an investigative tool when incidents occur.



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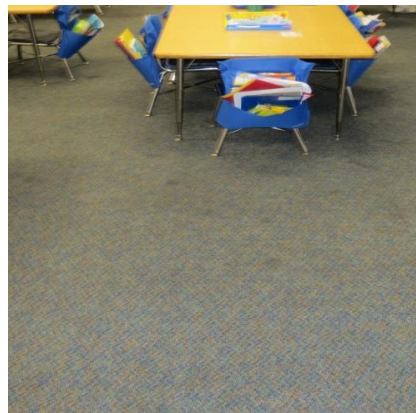
# Heartland Elementary School



## **Air Handling Unit**

Air handling unit is nearing the end of its life cycle.

Will need to be replaced in the next two to four years.



## **Carpet Replacement**

Carpet is starting to show wear and staining that we are unable to remove.

Life cycle of carpet is 12-20 years.

Carpet will need to be replaced.



## **Chilled Water Pumps (2) – Add VFD**

Variable Frequency Drives will greatly increase energy efficiency and lengthen the life of the pumps.



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# Williamsburg Elementary School



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## Williamsburg Elementary School Building Summary

Built in 2008, this 104,000 square foot building is built on 14 acres. It has a student capacity of 550. This state of the art building is built with noncombustible building materials. The HVAC and lighting systems are energy efficient.

The **roof access panels** were installed this past summer to prevent vandalism and easy access to the roof.

The building is in excellent shape and only the **parking lot** needs to be crack filled and sealcoated this year.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist as an investigative tool when incidents occur.

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## Williamsburg Elementary School



### **Parking Lot**

Several areas are starting to show cracking and wear.

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# Fabyan Elementary School



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## Fabyan Elementary School Building Summary

Built in 2009, this 104,000 square foot building sits on 11 acres. It has a student capacity of 550. This state of the art building is built with noncombustible building materials. The HVAC and lighting systems are energy efficient.

The building is in excellent shape and only the **parking lot** needs to be crack filled and sealcoated this year.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

During safety and security conversations with the principal and first responders, strategic locations were identified to add **exterior security cameras** to monitor, prevent, deter and to assist as an investigative tool when incidents occur.



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## Fabyan Elementary School



### **Parking Lot**

Several areas are starting to show cracking.

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# Coultrap Educational Services Center



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## Coultrap Educational Services Center Building Summary

Built in 1916, this 28,400 square foot building has had 3 additions and sits on 1.7 acres. Fourth Street School began as an elementary building, housed the original Friendship Station Preschool, and now serves as the District's Administration Center. During the last referendum several upgrades to the building were made including IT server upgrades, several office modifications and the Intervention Coordinator's office was added. With the demolition of Coultrap Elementary School in 2013, Fourth Street Administration building was renamed to Coultrap Educational Services Center. The offices were reorganized and updated in 2014-15 for better work flow.

The building is generally in good shape except for some aesthetic and minor maintenance upgrades.

Resurfacing the **parking lot** will need to take place within the next two years. The **pneumatic controls** are starting to fail and the controllers have been discontinued and no longer available. Recommending the conversion of the pneumatic controls to a DDC system. The heating system works well, but the **fan** is at least 39 years old and needs to be replaced, along with the **variable frequency drive (VFD)**, which has not worked for years. The building is cooled with **fan coil and condensing units** which were installed in 1996. These units are reaching the end of their life cycle and need to be replaced. The Quincy **air compressor** that operates the pneumatic HVAC control system is 22 years old and is near the end of its life and will need to be replaced in the next seven years. The 75 gallon A.O Smith **hot water heater** was installed in 1996 and is at the end of its expected life cycle and will need to be replaced. The **existing galvanized piping** is deteriorating and has an excessive amount of rust. The old piping will need to be replaced with copper piping and provide new ball valves for adequate shut-off. The **Notifier 5000 fire alarm systems** will need to be updated to meet current NFPA code requirements.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

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# Coultrap Educational Services Center



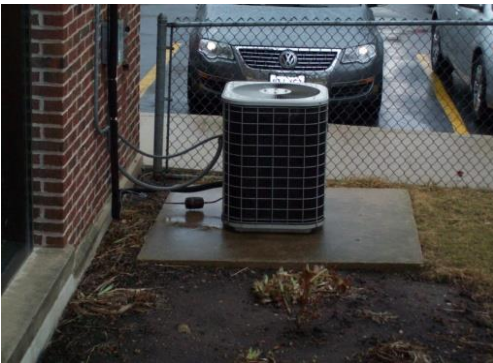
## HVAC Controls

Upgrading the discontinued pneumatic controls with Direct Digital Controls.



## Fire Alarm System

Notifier 5000 fire alarm panel will need to be updated to meet current NFPA code requirements.



## Fan Coil and Condensing Units

The entire building is cooled with fan coil units.

Several are beginning to fail and most will need to be replaced in the next two to seven years.



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# Coultrap Educational Services Center



## Air Compressor

22 years old and needs to be replaced.



## VFD and Fan for the Furnace

VFD doesn't work and the fan for the furnace is at least 39 years old.



## Parking lot

Several areas with extreme cracking.

Resurfacing will be needed.

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# Keslinger Transportation Building



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## Keslinger Transportation Building Building Summary

The Keslinger Transportation Facility was opened in 2004. The 44,350 square foot building is constructed on 7.9 acres. This facility houses 47 of the district's buses, three bus service bays and the grounds shop for the western part of the district. The bus bays are not heated but are equipped with plug-ins for the heater core for cold weather starting. The service bays are heated. In addition, there are office and dispatch facilities as well as a large conference area for training and meetings. The building is equipped with a small kitchen area and restroom facilities for the staff and drivers.

The 60 gallon A.O Smith **hot water heater** tank cracked and needed to be replaced the fall of 2017.

The **heating ventilation and air conditioning (HVAC)** equipment is original to the building and nearing the end of its estimated service life according to ASHRAE. This includes the three Lennox split systems that serves the offices and conference area, along with three Bananza make-up air units that serve the three service bays. The **lighting** will need upgrades to replace the inefficient metal halide fixtures in the service and ground shop bays, with new high output fluorescent T-8 fixtures. Resurfacing the **parking lot** will be needed within the next two to three years.

Recommended upcoming security projects in the capital improvement plan over the next seven years include replacing the outdated GE Diamond II **access control system**. The system including the software is no longer supported, therefore a new and upgraded system is needed. In order to be fiscally responsible, we are recommending a system that will be compatible with our current wiring, door hardware and readers.

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# Keslinger Transportation Building



## Parking Lot

Pavement starting to crack and breakdown.

Resurfacing will be needed in the next two to three years.



## Lighting Upgrades

Replace inefficient metal halide fixtures with high output T-8 fixtures in service bays and ground shop for energy savings.



## HVAC Split System

The 3 Lennox split systems are nearing their ASHRAE recommended service life.

Replacement will be needed within the next seven years.



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# Keslinger Transportation Building



## **Air Handling Unit**

The three Bananza make-up air units are nearing their ASHRAE recommended service life.

Replacement will be needed within the next seven years.

## Completed Capital Improvement Plan Projects 2017-18

<b>Projects Approved</b>			
<b>Project</b>	<b>Budget</b>	<b>Cost</b>	<b>Variance</b>
GMSS – Interior Locking Mechanism	\$5,800.00	\$3,510.80	\$2,289.20
WES – Roof Access Panel	\$10,000.00	\$5,850.00	\$4,150.00
GHS – Secondary Pumps (3)	\$50,250.00	\$44,908.40	\$5,341.60
GHS – Flooring Replacement (“A” Classrooms, Library Classrooms & Mack Olson Gym Corridor)	\$100,000.00	\$77,160.50	\$22,839.50
GHS – Budgeted Future Capital Improvements (Boiler Systems, Burgess Field Turf, etc.)	\$150,000.00	\$131,864.91 2018-19 Assigned Fund	\$18,135.09
GHS – Tennis Court Resurface (Resurface entire court) – Geneva Park District share costs	\$70,000.00	\$74,367.80	(\$4,367.80)
GMSS - Fire Lane (Resurface)	\$35,000.00	\$24,700.00	\$10,300.00
WAS – Chilled Hot Water HVAC Piping Replacement	\$0 Emergency Building Improvement	\$54,862.59	(\$54,862.59)
Transportation - Hot Water Heater Replacement	\$2,000.00 Emergency Building Repair	\$5,825.00	(\$3,825.00)
<b>Sub-Total</b>	\$423,050.00	\$423,050.00	\$0

# Capital Improvement Plan Projects 2018-19

**20E 300 2540 5110**

**GHS**

Domestic Water Piping Replacement	\$ 50,000.00
Flooring Replacement (“A” & “K” Hallways, Guidance & Deans’ Offices)	\$ 155,000.00
Budgeted Future Capital Improvements (Boiler Systems, Burgess Field Turf, etc.)	\$ 150,000.00
Track Resurface (Resurface entire track)	\$ 90,000.00
<b>SUBTOTAL</b>	<b>\$445,000.00</b>

**20E 500 2540 5110**

GMSN IT Server Room Air Conditioning Unit	\$ 20,000.00
GMSS Hot water make-up air unit	\$ 22,000.00
WAS Parking Lot Maintenance (Geneva Park District share costs)	\$ 35,000.00
MCS Parking Lot Maintenance	\$ 35,000.00
WES Parking Lot Maintenance	\$ 45,000.00
FES Parking Lot Maintenance	\$ 45,000.00
CESC Rebuild Fan for furnace	\$ 15,000.00
<b>SUBTOTAL</b>	<b>\$ 217,000.00</b>

**20E 900 2540 5110**

DISTRRICT-WIDE (All schools, CO & Transportation)	Access Control Systems	\$ 401,631.00
<b>SUBTOTAL</b>		<b>\$ 401,631.00</b>

**TOTALS**

<b>300</b>	<b>\$ 445,000.00</b>
<b>500</b>	<b>\$ 217,000.00</b>
<b>900</b>	<b>\$ 401,631.00</b>
<b>TOTAL</b>	<b>\$ 1,063,631.00</b>

**2018-19 Operations and Maintenance  
7 Year Capital Improvement Cost Summary**

Building / Description	Recommendation	Cost Estimate	Priority	Year	Comments	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>Geneva High School-Academic Areas</b>												
Domestic Water Piping Replacement	Replace old galvanized piping with copper piping and provide new ball valves for adequate shut-off	\$ 50,000.00	H	1	Current piping is deteriorating and starting to leak on a consistent basis	\$ 50,000.00						
Flooring Replacement	Replace worn flooring in "A" & "K" Hallways, Guidance & Deans' Offices.	\$ 465,000.00	H	1-3	Flooring at least 18 years old. Fraying/tripping hazard. Replace in phases.	\$ 155,000.00	\$ 155,000.00	\$ 155,000.00				
Boiler Systems	Eventually, replace steam boilers with new heating system.	\$ 700,000.00	Budget	1-9	Steam line failed and was replaced Summer 2014. Budgeting funds for system upgrade.	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00
Roof - Southwest side	Replace failing section	\$ 475,000.00	M	2	Nearing end of life cycle of 25 years.		\$ 475,000.00					
Auditorium Stage and house lighting	Update the entire lighting system	\$ 200,000.00	M	2	Lighting panel becoming obsolete and parts are no longer available		\$ 200,000.00					
Air Handlers (7)	Need Re-built	\$ 175,000.00	M	3	43 years old			\$ 175,000.00				
Parking Lot	Periodic maintenance; Sealcoating	\$ 75,000.00	M	3	Resurfaced/Sealcoated 2013			\$ 75,000.00				
DDC Controls	Add as equipment is replaced	\$ 250,000.00	L	4,5	Convert pneumatic to digital controls				\$ 125,000.00	\$ 125,000.00		
Renovate Cafeteria bathrooms	Update	\$ 50,000.00	L	5	43 years old and in need of updating					\$ 50,000.00		
Renovate Stagecraft area including bathrooms	Update	\$ 50,000.00	L	5	43 years old and in need of updating					\$ 50,000.00		
PVI Hot Water Heaters (500 Gallon) (2)	Replacing 2 - 500 gallon hot water heaters	\$ 110,000.00	L	5	Typical life cycle of a commercial hot water heater is 13 to 16 years					\$ 110,000.00		
Make-up Air Unit at 301 McKinley	Replacing current make-up air unit	\$ 45,000.00	L	5	Installed 1996 and nearing estimated service life according to ASHRAE					\$ 45,000.00		
<b>Geneva High School-Athletic Areas</b>												
Track Resurface	Resurface entire track	\$ 90,000.00	H	1	Starting to crack - affects play and safety issues. Typical life expectancy is 8-10 years.	\$ 90,000.00						
Burgess Field Turf	Turf renewal maintenance	\$ 350,000.00	Budget	1-9	Typical life cycle of synthetic turf is 8-10 years, budgeting \$50K over 10 years. (Totalling \$500K).	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00	\$ 50,000.00
Storage Shed	Athletic Area	\$ 55,000.00	L	7	Needed space for athletic/gym supplies							\$ 55,000.00
<b>SECURITY</b>												
Access Control System	Replace the GE Diamond II access control system.	\$ 44,032.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 44,032.00						
Exterior Security Cameras	Additional exterior security cameras to monitor, prevent, deter, and investigate when incidents occur. (Phase 1: Year 2: \$ 4,000) (Phase 2: Year 3: \$9,000)	\$ 13,000.00	M	2,3	Identified areas in the 2014 ARCON Security Assessment.		\$ 4,000.00	\$ 9,000.00				
Interior Security Cameras	Addition of interior security cameras to Monitor, Prevent, Deter, and Investigate when incidents occur. (Phase 1: Year 2: \$7,000) (Phase 2: Year 3: \$7,000)	\$ 14,000.00	M	2,3	Administration identified areas where cameras would be of assistance.		\$ 7,000.00	\$ 7,000.00				
Add FOB Reader and Wiring to Access Control System	Install a FOB to the hallway doors at the Health Office and Band Room.	\$ 14,500.00	L	4	Adding this feature will enhance the protection of our assets and reduce the risk of theft. Cost for Health Office (\$6,500) and Band Room (\$8,000).				\$ 14,500.00			
<b>Total for GHS</b>		<b>\$ 3,225,532.00</b>				<b>\$ 489,032.00</b>	<b>\$ 991,000.00</b>	<b>\$ 571,000.00</b>	<b>\$ 289,500.00</b>	<b>\$ 530,000.00</b>	<b>\$ 150,000.00</b>	<b>\$ 205,000.00</b>



**2018-19 Operations and Maintenance  
7 Year Capital Improvement Cost Summary**

Building / Description	Recommendation	Cost Estimate	Priority	Year	Comments	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>GMS-N</b>												
IT Server Room A/C	Install new A/C unit	\$ 20,000.00	H	1	Current unit is oversized for load.	\$ 20,000.00						
DDC Controls	Continue replacing as old devices fail.	\$ 250,000.00	M	2	Updated from Lon to BACnet (no transition yet).		\$ 250,000.00					
PVI Hot Water Heaters (300 Gallon) (2)	Original to the building and needs to be replaced in next three years.	\$ 85,000.00	M	3	Typical life cycle of a commercial hot water heater is 12 to 15 years.			\$ 85,000.00				
The guardrail along the open side of the stair has a height of 36" which is lower than the required 42" height.	Extend the existing guardrail to achieve a minimum overall height of 42 inches in Stair A, B, C, D, E, and F.	\$ 25,000.00	M	3	10 Year HLS "B" Repairs			\$ 25,000.00				
Door leading to basement does not have a label and therefore does not comply with the 1-hour fire rating requirement for an interior stair.	In Stair C and D Replace door with 1-hour fire-rated door.	\$ 5,000.00	M	3	10 Year HLS "B" Repairs			\$ 5,000.00				
First floor doors have vision panels that are rated 1/3 or 3/4-hour and therefore do not meet the required 1-hour fire-rating.	In Stair C, D and F Replace doors with 1-hour fire-rated doors.	\$ 20,000.00	M	3	10 Year HLS "B" Repairs			\$ 20,000.00				
Doors leading to the north Team Center are labeled with a 1/3-hour fire rating and therefore do not meet the required 3/4-hour fire rating.	In library Replace doors with 3/4-hour fire-rated doors.	\$ 5,000.00	M	3	10 Year HLS "B" Repairs			\$ 5,000.00				
Door leading into Storage 199B are labeled with a 1/3-hour fire rating and therefore do not meet the required 3/4-hour fire rating.	In White gym (Storage 199B) Replace the door with a 3/4-hour fire rated door.	\$ 5,000.00	M	3	10 Year HLS "B" Repairs			\$ 5,000.00				
Doors leading into Storage 197A are labeled with a 1/3-hour fire rating and therefore do not meet the required 3/4-hour fire rating.	In Blue gym (Storage 197B) Replace the door with a 3/4-hour fire rated door.	\$ 5,000.00	M	3	10 Year HLS "B" Repairs			\$ 5,000.00				
Doors leading into Storage 171 and out the back of the Platform are not labeled and therefore do not meet the required 3/4-hour fire rating.	In Cafeteria 164 Replace the door with a 3/4-hour fire rated door.	\$ 10,000.00	M	3	10 Year HLS "B" Repairs			\$ 10,000.00				
Doors are not labeled and therefore do not meet the required 3/4-hour fire rating.	Technical Education 157 and 156 Replace the doors with a 3/4-hour fire rated door.	\$ 15,000.00	M	3	10 Year HLS "B" Repairs			\$ 15,000.00				
Doors are not labeled and therefore do not meet the required 3/4-hour fire rating.	In Finishing 156A Replace the door with a 3/4-hour fire rated door.	\$ 5,000.00	M	3	10 Year HLS "B" Repairs			\$ 5,000.00				
Abandon fixtures resulting in sections of unused piping ("dead ends").	Remove abandoned plumbing fixtures shower and remove unused sections of piping back to mains.	\$ 5,400.00	M	3	10 Year HLS "B" Repairs			\$ 5,400.00				
Boys and Girls Locker Room Not adequate number and locations of floor drains for each shower head.	Provide additional floor drains to match number of existing shower heads.	\$ 31,500.00	M	3	10 Year HLS "B" Repairs			\$ 31,500.00				
LMC Air Handling Unit	Add VAV boxes with associated piping, ductwork as required	\$ 38,000.00	L	4	Only 2 VAV boxes installed for entire library area. Add 6-8 boxes.				\$ 38,000.00			
Parking Lot	Periodic maintenance; Sealcoating	\$ 50,000.00	L	6	Sealcoated and Cracked filled 2015-16.						\$ 50,000.00	
<b>SECURITY</b>												
Access Control System	Replace the GE Diamond II access control system.	\$ 49,543.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 49,543.00						
Exterior Security Cameras	Additional Exterior Cameras to prevent, monitor, deter, and investigate when incidents occur. (Phase 1: Year 3: \$4,000) (Phase 2: Year 4: \$9,100)	\$ 13,100.00	M,L	3,4	Working in conjunction with the Principal and the consultant from ARCON conducting the security assessment strategic areas were identified for placement of security cameras.			\$ 4,000.00	\$ 9,100.00			
Interior Security Cameras	Interior Cameras to prevent, monitor, deter, and investigate when incidents occur. (Phase 1: Year 4: \$11,000) (Phase 2: Year 5: \$11,000)	\$ 22,000.00	L	4,5	Administration identified areas where cameras would be of assistance.			\$ 11,000.00	\$ 11,000.00			
Security Traffic Bollards	Install security bollards outside of the front entrance to provide a barrier.	\$ 4,000.00	L	7	Bollards help provide deterrence and protection for both life and property. Identified in the ARCON 2014 Security Assessment							\$ 4,000.00
<b>Total for GMS-N</b>		<b>\$ 663,543.00</b>				<b>\$ 69,543.00</b>	<b>\$ 250,000.00</b>	<b>\$ 220,900.00</b>	<b>\$ 58,100.00</b>	<b>\$ 11,000.00</b>	<b>\$ 50,000.00</b>	<b>\$ 4,000.00</b>

**2018-19 Operations and Maintenance  
7 Year Capital Improvement Cost Summary**

Building / Description	Recommendation	Cost Estimate	Priority	Year	Comments	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>GMS-S</b>												
Hot water make-up air unit	Replace failing unit	\$ 22,000.00	H	1	Replace gas fired unit for efficiency	\$ 22,000.00						
The fire shutters surrounding the Library do not close and therefore do not provide the required 1-hour fire rating. Repairs to improve the operation have been unsuccessful. Using HSL funds	Remove the fire shutters and construct 1-hour fire rated wall partitions to enclose the library.	\$ 210,000.00	M	2	10 Year HLS "B" Repairs		\$ 210,000.00					
Gym Flooring	Resurface and seal Contest Gym	\$ 25,000.00	M	2	Floor showing wear		\$ 25,000.00					
DDC Controls	Continue replacing as old devices fail.	\$ 150,000.00	M	2	75% complete converting from Lon to BACnet		\$ 150,000.00					
Stage Lighting	Update the entire light system	\$ 25,000.00	M	3	Original to the building, starting to fail			\$ 25,000.00				
Parking Lot	Periodic maintenance; Sealcoating	\$ 50,000.00	M	3	Resurfaced/Sealcoated 2013			\$ 50,000.00				
Doors do not have a label and therefore do not meet the required 1-hour fire rating. In addition, the hardware is in disrepair making it difficult to egress.	In Stair B, C, F and G - Replace doors with 1-hour fire-rated doors.	\$ 25,000.00	M	3	10 Year HLS "B" Repairs			\$ 25,000.00				
Doors do not have a label or have a label that is less than what is required and therefore do not meet the 3/4-hour fire rating.	Replace doors with 3/4-hour fire-rated doors in Storage 109A, Library Workroom 109B, Library 140 (two pairs of doors), ITC 109C, Faculty Resource 109D, LRC Storage 109E, and Electrical Room 109F	\$ 25,000.00	M	3	10 Year HLS "B" Repairs			\$ 25,000.00				
In Cafeteria room 185 - Large coiling door into Serving Area does not have a label or fusible link and therefore does not meet the required 3/4-hour fire rating.	Replace coiling door with 3/4-hour rated door.	\$ 9,000.00	M	3	10 Year HLS "B" Repairs			\$ 9,000.00				
Door between storage room and Contest Gym has a label that is less than what is required and therefore does not meet the 3/4-hour fire rating.	In Storage room 196A - Replace door with 3/4-hour fire-rated door.	\$ 2,500.00	M	3	10 Year HLS "B" Repairs			\$ 2,500.00				
Door into Electrical Room has a label that is less than what is required and therefore does not meet the 3/4-hour fire rating.	In Multi-purpose room 197 Replace door with 3/4-hour fire-rated door.	\$ 2,500.00	M	3	10 Year HLS "B" Repairs			\$ 2,500.00				
Doors do not have a label and therefore do not meet the 3/4-hour fire rating.	In Cafeteria 185 Replace door with 3/4-hour fire-rated door.	\$ 35,000.00	M	3	10 Year HLS "B" Repairs			\$ 35,000.00				
Doors do not have a label and therefore do not meet the 3/4-hour fire rating.	In Technical Education 173, Finishing Room 173A, Office 173C, and Technical Education 179 Replace door with 3/4-hour fire-rated door.	\$ 15,000.00	M	3	10 Year HLS "B" Repairs			\$ 15,000.00				
Public toilet rooms do not have floor drains.	Provide floor drains	\$ 31,500.00	M	3	10 Year HLS "B" Repairs			\$ 31,500.00				
Abandon fixtures resulting in sections of unused piping ("dead ends").	Remove abandoned plumbing fixtures throughout the building and remove unused sections of piping back to mains.	\$ 43,200.00	M	3	10 Year HLS "B" Repairs			\$ 43,200.00				
Boys and Girls Locker Room Not adequate number and locations of floor drains for each shower head.	Provide additional floor drains to match number of existing shower heads.	\$ 14,000.00	M	3	10 Year HLS "B" Repairs			\$ 14,000.00				
The existing fire alarm panel is obsolete and inadequate. System is not expandable to accept additional zones, audio and visual signaling devices.	Replace fire alarm panel.	\$ 20,000.00	M	3	10 Year HLS "B" Repairs			\$ 20,000.00				
Chiller - 180 ton	Add to replace noisy, inefficient DX units on roof	\$ 240,000.00	L	4	DX units are original and beginning to show signs of wear and failure.				\$ 240,000.00			
Hot Water Storage Tank	Replace unit	\$ 15,000.00	L	4	Typical life cycle of a commercial hot water heater is 13 to 16 years.				\$ 15,000.00			
Ceiling Tile and Grid Replacement	School Wide - recommend in phases. First phase main office, athletic and technology wings	\$ 165,000.00	L	4,5	Grid is starting to show discoloration				\$ 82,500.00	\$ 82,500.00		
Boiler Replacement	Replace with new high efficiency boilers & primary pumps	\$ 805,000.00	L	6	24-year old boilers, inefficient & nearing the end of their estimated service life as per ASHRAE.						\$ 805,000.00	

**2018-19 Operations and Maintenance  
7 Year Capital Improvement Cost Summary**

Building / Description	Recommendation	Cost Estimate	Priority	Year	Comments	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>SECURITY</b>												
Access Control System	Replace the GE Diamond II access control system.	\$ 56,238.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 56,238.00						
Exterior Security Cameras	Addition of exterior security cameras to monitor, prevent, deter, and investigate when incidents occur. (Phase 1: Year 2: \$4,000) (Phase 2: Year 4: \$6,900)	\$ 10,900.00	M,L	2,4	Working in conjunction with the Principal and the consultant from ARCON conducting the security assessment strategic areas were identified for placement of security cameras.		\$ 4,000.00		\$ 6,900.00			
Interior Security Cameras	Interior Cameras are recommended to prevent, monitor, deter, and investigate when incidents occur. (Phase 1: Year 4: \$15,400) (Phase 2: Year 5: \$8,800)	\$ 24,200.00	L	4,5	Administration identified areas where cameras would be of assistance.				\$ 15,400.00	\$ 8,800.00		
Security Traffic Bollards	Install security bollards outside of the front entrance to provide a barrier.	\$ 4,000.00	L	7	Bollards help provide deterrence and protection for both life and property. Identified in the ARCON 2014 Security Assessment							\$ 4,000.00
<b>Total for GMS-S</b>		<b>\$ 2,025,038.00</b>				<b>\$ 78,238.00</b>	<b>\$ 389,000.00</b>	<b>\$ 297,700.00</b>	<b>\$ 359,800.00</b>	<b>\$ 91,300.00</b>	<b>\$ 805,000.00</b>	<b>\$ 4,000.00</b>
<b>Harrison</b>												
Cabinet Unit Heaters (15)	Replace with new units	\$ 60,000.00	M	2	Units over 37 years old. Replace as fans fail		\$ 60,000.00					
Parking Lot	Periodic maintenance; Sealcoating	\$ 45,000.00	M	2	Resurfaced/Sealcoated 2014		\$ 45,000.00					
Air Handlers (3)	Rebuild with new components	\$ 150,000.00	M	3	Shell is in good condition			\$ 150,000.00				
Radiant Heat-K Wing	Replace with new radiant piping	\$ 30,000.00	L	4	Short run in glass hallway				\$ 30,000.00			
Boiler and Secondary Pumps	Replace with new high efficiency boilers & primary pumps	\$ 460,000.00	L	7	Nearing estimated service life according to ASHRAE							\$ 460,000.00
<b>SECURITY</b>												
Access Control System	Replace the GE Diamond II access control system.	\$ 28,840.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 28,840.00						
Exterior Security Camera	Addition of exterior security cameras to monitor, prevent, deter, and investigate when incidents occur.	\$ 4,000.00	L	5	Based on an internal security assessment additional cameras would be beneficial.					\$ 4,000.00		
<b>Total for Harrison</b>		<b>\$ 777,840.00</b>				<b>\$ 28,840.00</b>	<b>\$ 105,000.00</b>	<b>\$ 150,000.00</b>	<b>\$ 30,000.00</b>	<b>\$ 4,000.00</b>	<b>\$ -</b>	<b>\$ 460,000.00</b>
<b>Western</b>												
Parking Lot	Periodic maintenance; Crack fill and Sealcoating.	\$ 35,000.00	H	1	Resurfaced/Sealcoated 2013. Park District to share costs.	\$ 35,000.00						
Cabinet Unit Heaters (9)	Replace with new units	\$ 45,000.00	M	2	Over 22 years old. Replace as fans fail		\$ 45,000.00					
Boiler Replacement (2)	Replace with new high efficiency boilers	\$ 420,000.00	M	3	28-year old boilers, inefficient & nearing the end of their estimated service life as per ASHRAE.			\$ 420,000.00				
Interior Doors	Replace damaged doors	\$ 10,000.00	L	4	Showing excessive wear				\$ 10,000.00			
Gym AHU	Rebuild with new components. Geneva Park District share costs.	\$ 18,000.00	L	4	Coil replaced in 2009, original in 1964				\$ 18,000.00			
<b>SECURITY</b>												
Access Control System	Replace the obsolete GE Diamond II access control system.	\$ 23,175.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 23,175.00						
Exterior Security Camera	Addition of exterior security cameras to monitor, prevent, deter, and investigate when incidents occur.	\$ 4,000.00	L	7	Based on an internal security assessment additional cameras would be beneficial.							\$ 4,000.00
<b>Total for Western</b>		<b>\$ 555,175.00</b>				<b>\$ 58,175.00</b>	<b>\$ 45,000.00</b>	<b>\$ 420,000.00</b>	<b>\$ 28,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000.00</b>

**2018-19 Operations and Maintenance  
7 Year Capital Improvement Cost Summary**

Building / Description	Recommendation	Cost Estimate	Priority	Year	Comments	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
<b>Mill Creek</b>												
Parking Lot - Front Lot	Periodic maintenance; Sealcoating	\$ 35,000.00	H	1	Resurfaced/Sealcoated crack filled 2013	\$ 35,000.00						
Simplex 4020 fire panel	Replace due to escalating repair costs and breakdowns	\$ 65,000.00	M	2	Escalating repair costs		\$ 65,000.00					
Boiler & Primary Pump Replacement	Replace, install new boiler & primary pumps	\$ 440,000.00	M	2	22 years old, nearing estimated service life according to ASHRAE		\$ 440,000.00					
DDC Controls	Continue replacing as old devices fail	\$ 200,000.00	M	2	Converting from Lon to Bacnet		\$ 200,000.00					
Office Cooling System	Install new system for office	\$ 40,000.00	M	3	Update for energy efficiency			\$ 40,000.00				
Hot Water Heater	Install new commercial unit	\$ 5,000.00	M	3	AO Smith was installed in 2002			\$ 5,000.00				
<b>SECURITY</b>												
Access Control System	Replace the obsolete GE Diamond II access control system.	\$ 30,179.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 30,179.00						
Exterior Security Camera	Additional exterior cameras to prevent, monitor, deter, and investigate when incidents occur.	\$ 7,000.00	L	4	Based on internal security assessment additional cameras would be beneficial.				\$ 7,000.00			
<b>Total for Mill Creek</b>		<b>\$ 822,179.00</b>				<b>\$ 65,179.00</b>	<b>\$ 705,000.00</b>	<b>\$ 45,000.00</b>	<b>\$ 7,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>
<b>Heartland</b>												
Parking Lot	Periodic maintenance; Sealcoating	\$ 45,000.00	M	2	Resurfaced/Sealcoated 2013		\$ 45,000.00					
Carpet Replacement	Replace worn carpet throughout school	\$ 320,000.00	M	2,3	Age of carpet is 16 years 2017-18 school year. Life cycle 12-20 years. Extensive staining and wear.		\$ 160,000.00	\$ 160,000.00				
Air Handling Unit for Server Room	Replace AHU	\$ 13,000.00	M	3	Nearing end of life cycle			\$ 13,000.00				
VFD for chilled water pumps (2)	Install new VFDs	\$ 9,000.00	L	4	Increase efficiency and motor life				\$ 9,000.00			
<b>SECURITY</b>												
Access Control System	Replace the obsolete GE Diamond II access control system.	\$ 28,222.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 28,222.00						
Exterior Security Camera	Additional exterior cameras to prevent, monitor, deter, and investigate when incidents occur.	\$ 4,000.00	L	7	Based on an internal security assessment additional cameras would be beneficial.							\$ 4,000.00
<b>Total for Heartland</b>		<b>\$ 419,222.00</b>				<b>\$ 28,222.00</b>	<b>\$ 205,000.00</b>	<b>\$ 173,000.00</b>	<b>\$ 9,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000.00</b>
<b>Williamsburg</b>												
Parking Lot	Periodic maintenance; Sealcoating	\$ 45,000.00	H	1	Sealcoated 2013	\$ 45,000.00						
<b>SECURITY</b>												
Access Control System	Replace the obsolete GE Diamond II access control system	\$ 54,899.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 54,899.00						
Exterior Security Cameras	Additional exterior cameras to prevent, monitor, deter, and investigate when incidents occur.	\$ 4,000.00	L	6	Preventive measure to keep the building more secure.						\$ 4,000.00	
<b>Total for Williamsburg</b>		<b>\$ 103,899.00</b>				<b>\$ 99,899.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000.00</b>	<b>\$ -</b>
<b>Fabyan</b>												
Parking Lot	Periodic maintenance; Sealcoating	\$ 45,000.00	H	1	Sealcoating and crack fill 2012	\$ 45,000.00						
<b>SECURITY</b>												
Access Control System	Replace the obsolete GE Diamond II access control system.	\$ 55,500.00	H	1	This software is no longer supported therefore replacing the system is needed. We are recommending a comparable software system that will be compatible with our current wiring, door hardware and readers.	\$ 55,500.00						
Exterior Security Camera	Additional Exterior Cameras to prevent, monitor, deter, and investigate when incidents occur.	\$ 4,000.00	L	4	Based on internal security assessment additional cameras would be beneficial.				\$ 4,000.00			
<b>Total for Fabyan</b>		<b>\$ 104,500.00</b>				<b>\$ 100,500.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 4,000.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>



