FACILITY ASSESSMENT REPORT SPRINGFIELD PUBLIC SCHOOLS

Springfield, Minnesota

February 16, 2016

Project #16-18829







REPORT FOR: Keith Kottke Superintendent Springfield Public Schools, District 85 I 2 South Burns Avenue Springfield, MN 56087 507.723.4283 keith.kottke@springfieldmntm.org FROM: Justin Steffl Associate Principal + Project Manager ISG II5 E. Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651

justin.steffl@is-grp.com

Rod Schumacher Principal + Business Development ISG I 15 E. Hickory Street, Suite 300 Mankato, MN 56001 507.387.6651

rod.schumacher@is-grp.com



TABLE OF CONTENTS

EXECUTIVE SUMMARY	
Introduction	Page 2
Scope of Evaluation	
EXISTING CONDITIONS + CONSIDERATIO	NS
Site Location + Background Information	Page 5
Site Map, Traffic Patterns and Activity	Pages 6-7
Exterior Site Conditions	Pages 8-10
Exterior Building Conditions	Pages 11-15
Roof Conditions	Pages 16-17
Interior Building Conditions	Pages 17-22
Life Safety Conditions	Page 23
Hazardous Material Conditions	Page 24
Accessibility Conditions	Page 24
Plumbing Conditions	Page 25
Mechanical Conditions	Pages 26-30
Electrical Conditions	Pages 31-32
Security Considerations	Page 32
Technology Considerations	Pages 32-33
Programmatic Considerations	Page 34-35
PRIORITIES + ESTIMATED COSTS	
Priority Summary	Page 36-39
APPENDIX	
Space Needs Assessment Summary	Pages A1-A2

Executive Summary

INTRODUCTION

Springfield Public Schools is located in one central facility in Springfield, Minnesota, serving 650 students from preschool through twelfth grade. The entire south wing of the building is dedicated to the Elementary School and is comprised of Preschool through sixth graders, while the High School section of the facility is dedicated to seventh through twelfth graders. The facility is also home to the Independent School District (ISD) #85 office, a preschool program, and hosts many community education and recreation activities. The District also operates and maintains several support facilities for administrative, transportation, maintenance, and extra-curricular activities from this location. The site consists of one building, constructed circa 1908, which has been expanded to include several additions occurring through 1994.



SPRINGFIELD PUBLIC SCHOOL DISTRICT 85 MAP

DISTRICT SNAPSHOT

85%

Students entering kindergarten with kindergarten-ready skills

Top 15%

Springfield Elementary is recognized as a Reward School with a Grand Slam "4 in a Row", with the highest possible distinction for the Multiple Measurement Rating (MMR).

98%

Students earning a Springfield diploma

MAP LEGEND

A City of Springfield

B Springfield Public School
12 South Burns Avenue

Springfield, MN 56087

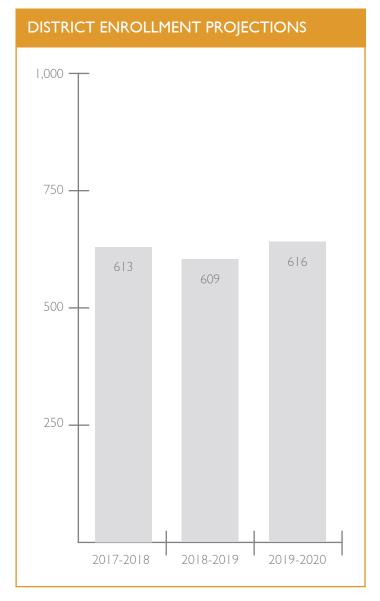
Page 2 www.is-grp.com



ISG's multi-disciplinary team visited Springfield Public Schools to perform a comprehensive site and facility evaluation. This included an analysis of existing conditions and considerations of the site, interior and exterior building, plumbing, mechanical, and electrical conditions, as well as security, technology, and programmatic considerations. A space needs assessment was also conducted to quantify the student/space ratio for the variety of uses throughout the facility. In addition to educational uses, the assessment also considered extra curricular, community education, and recreational uses and schedules for the facility.

Prior to the site assessment, District staff informed ISG of a variety of concerns at the facility. While none of these concerns required immediate relocation of staff or students and do not pose any threats to the occupants of the building, a list of priority items were identified based on several important factors. These include life safety, deterioration, health, accessibility, hazardous materials, energy, and aesthetics. The priority level and proposed time frame to address each item are identified in a table at the end of this report.

SUMMER 2016 UPDATES Site + parking expansion Voice/IP phone system Fire Detection System Replacement Replacement of exterior lighting wall packs with LED



SPRINGFIELD PUBLIC SCHOOL GOALS

SUPPORT POSITIVE FINANCIAL STABILITY OF THE SCHOOL DISTRICT



ENSURE A HIGH
PERFORMING WORKFORCE AND
INCORPORATE CONTINUOUS
IMPROVEMENT AT ALL LEVELS



CREATE AND FOSTER
AN ENGAGING AND
RESPECTFUL LEARNING
ENVIRONMENT



SCOPE OF EVALUATION

The following assessment considers information gathered from field observations, review of existing plans, and information provided by District staff and school personnel. The assessments performed on site were limited to nondestructive, visual reviews of existing systems. No destructive testing or investigations were performed. Existing information and plans were made available to ISG by Springfield Public School for review. The following categories were reviewed within the scope of this assessment:

SITE CONDITIONS



Site Conditions

Review of the existing building site including parking spaces, concrete walks, and other horizontal site elements. Site circulation, grading, paving, parking, stormwater, and playground space were also reviewed.



Exterior Building Conditions

Review of the building's exterior shell including an assessment of the structure, foundation, exterior walls, windows and doors, and thermal efficiency as well as conditions of the existing roof, gutters, and downspouts.



Interior Building Conditions

Examination of the finishes, equipment, and other conditions found in classrooms, offices, hallways, gymnasiums, locker rooms, stairwells, kitchen, and cafeteria areas.



Life Safety Conditions

Review of life safety, egress, and potential code deficiencies as discovered during field observation. Also includes conditions of the fire alarm system.



Hazardous Material Conditions

Identification of potential hazardous material noted during visual field observations.



Accessibility Conditions

Review of the existing structure for conformance with the Minnesota Accessibility Code. Site parking, access into the building and entrances, accessibility routes inside of building, and restroom accessibility were considered.



Plumbing Conditions

Review of the existing building plumbing systems including water service, water fountains, sinks, toilets, and showers.



Mechanical Conditions

Review of existing mechanical systems and their components including verification that HVAC systems, as well as plumbing fixture counts, water piping, and water supply meet current building codes.



Technology Conditions

Review of the building information technology system including network documentation, backup procedures, firewall, software, security, and technical support.



Electrical Conditions

Review of the existing building electrical systems including electrical service, distribution, and lighting. This section also documents technology systems and components including the security system and others as applicable.



Security Considerations

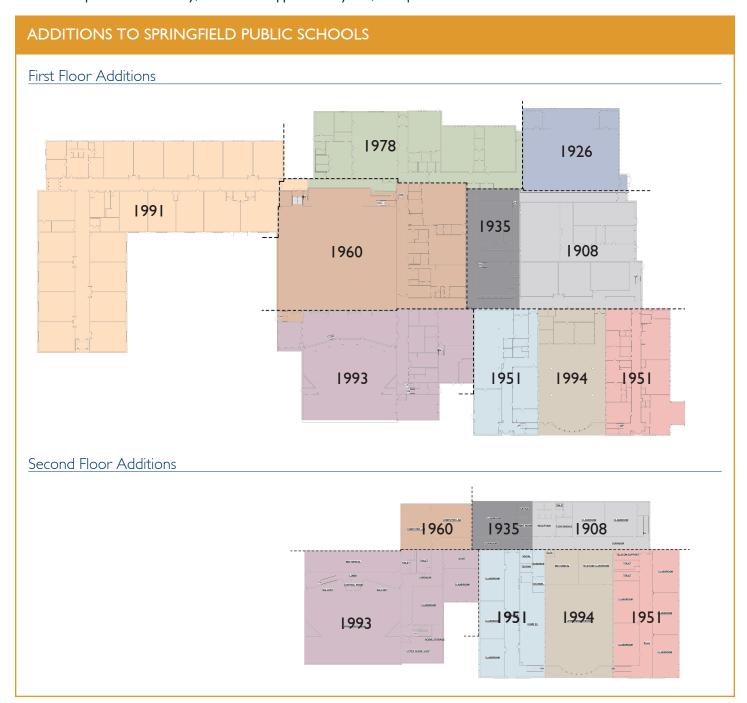
Assessment of the existing security equipment installed throughout the building. Review of existing primary entryways into the facility including door locations and visitor access.

Page 4 www.is-grp.com

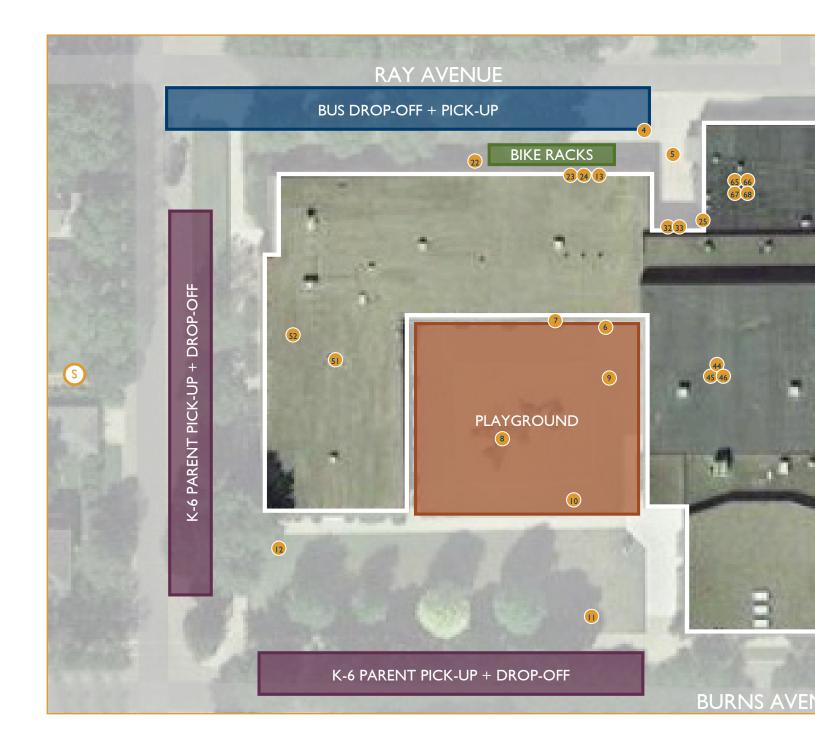


SITE LOCATION + BACKGROUND INFORMATION

Located on two city blocks in a predominantly residential neighborhood, the Springfield Public Schools building was constructed circa 1908 at 12 Burns Avenue in Springfield, Minnesota. With an increase in student enrollment, the facility expanded with multiple additions over the last century. The first addition in 1922 (not shown on map) provided the building with a new larger boiler room. In 1926, the space that is now the Elementary School Gym was added. Other additions in 1935, 1951, 1960, 1963, 1978, 1991, 1993, and 1994 make up the current facility, which totals approximately 168,450 square feet.





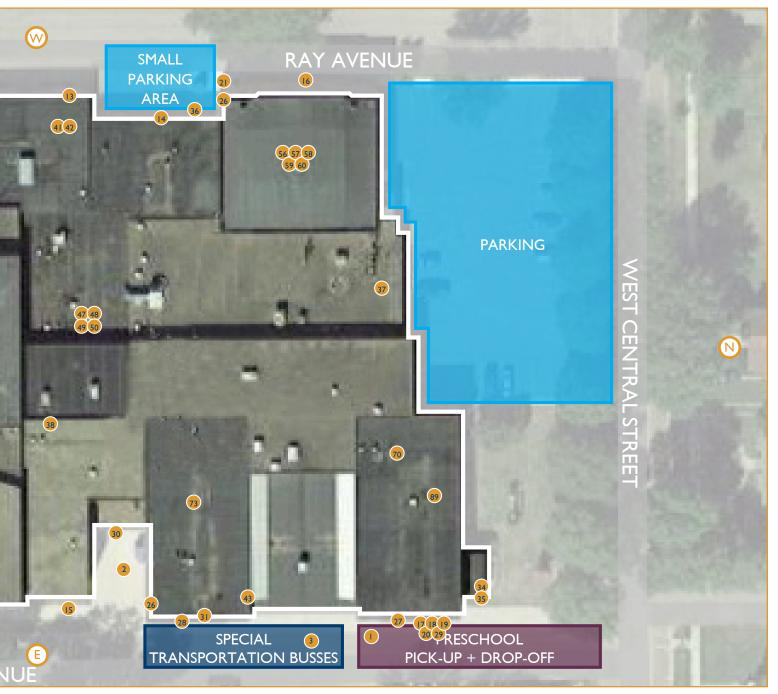


TRAFFIC PATTERNS AND VEHICLE ACTIVITY

While a complete traffic analysis was not completed, observation of traffic patterns, parking, busing, and student drop off indicated that traffic volumes are spread around the perimeter of the facility. Parent pick-up and drop-off for Elementary School students is located on the south side of the facility, while bus loading areas are located around the corner on the west side of the facility. Tiger Cub

Page 6 www.is-grp.com





Note: Numbers represent many, but not all existing condition photos identified on pages 8-31 of this report.

Preschool pick-up and drop-off, and special transport van/bus loading is located on the northeast side of the facility. Pocket parking areas are located on the south, east and west sides of the facility with a new lot across from the main entrance on Burns Avenue. The High School student drop off area is located along the east, nearby the Preschool pick-up and drop off area.





EXTERIOR SITE CONDITIONS

Overall drainage of site is adequate and poses no issues to the building or the surrounding area. The traffic flow for morning and afternoon drop-off includes 380 students being bussed each day. Teacher, staff, and

visitor parking as well as parent drop-off areas, and sidewalks for students who walk and bike to school also play an important part of the daily traffic flow.



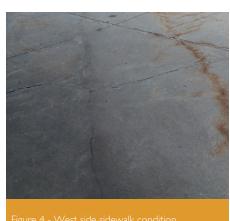
Concrete walks surround the building, providing easy access for students and faculty to walk around the exterior perimeter of the school. Most sidewalks around the school are in fair condition and require minimal repair. However, in locations of heavier traffic, the concrete shows sign of wear. These locations are illustrated in Figures 1-3 and are described as follows:

- The east sidewalk near the northeast corner of the block shows signs of deterioration. Large cracks, spalling, and discoloration of concrete are due to normal wear and potential salt erosion (see Figure 1).
- The east side of the building has a bay for truck deliveries with access to the Shop and Theater. The concrete in this area is sunken and cracked due to heavy equipment and delivery trucks unloading and parking here. When this concrete pad was originally placed, it was most likely not designed for present-day heavy equipment and large deliveries. It was not reinforced to accommodate the increased load, resulting in settled concrete and cracks (see Figure 2).
- In front of the High School entrance on the east side is an accessible ramp that shows signs of deterioration requiring repair (see Figure 3).
- · Cracks, spalling, and stained concrete are apparent on the west concrete walk outside of door W8. This location is in need of new concrete walks and concrete curbs (see Figures 4 and 5).
- At entrances E12 and E13, uneven concrete is an accessibility concern for students entering the playground (see Figures 6 and 7).











Page 8 www.is-grp.com



- The playground equipment designed for the Elementary School is in very good condition and promotes "Tiger Pride" using maroon and gold colors (see Figure 8).
- The surrounding asphalt is in poor condition with cracks, patching, and an overall uneven surface. There is an area near the north basketball hoop where an 8" hole is marked by a cone. This hole poses a safety concern to students playing in that area (see Figure 9).

Playground

The pebble rock in the playground area is not well contained by the existing concrete border. With the replacement of the asphalt pavement, new playground rubber flooring or chips should be installed to provide students with a safer material to play on, longer lifespan, and less overall maintenance for staff (see Figure 10). Currently, the District leases adjacent Brown Park for additional playground space.



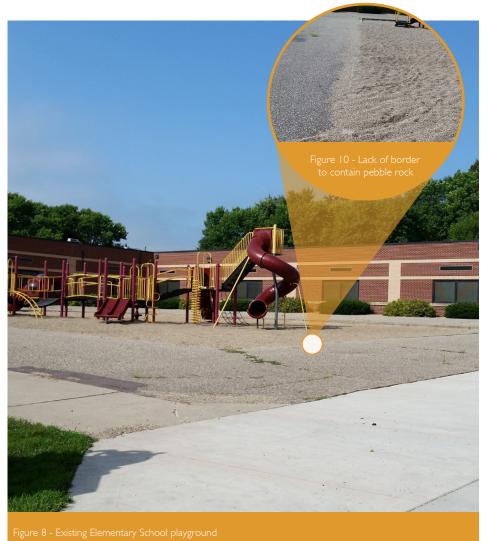




Figure 7 - Entrance at door E13

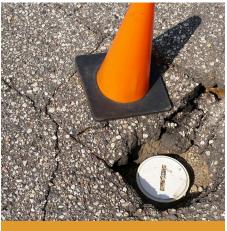


Figure 9 - Clean-out hole safety hazard in asphalt



Located near the playground is a small bell memorializing the establishment of Springfield Public Schools in 1908. The bell is in very good condition and provides appropriate historical appreciation. The masonry column that supports the bell shows brick deterioration and should be restored. The stone plaque that reads '1908' should be cleaned at the same time (see Figure 11).

The southeast corner of the Elementary School has an elevation change of about three feet. Stairs connect the concrete walks at both elevations. The stairs are in good condition and the railing is structurally sound but has areas of chipped paint (see Figure 12).

The west side of the building has two bicycle racks for students to secure their bikes during the school day (see Figure 13). The racks are bent and rusting. To provide students with a safe place to lock their bikes, two new racks should be installed. Set-in ground racks will provide a reliable long lasting solution.

On the west side of the building there is a small parking lot with six stalls. The pavement and striping are in poor condition, and the lot is in need of repaving. The concrete curbs at the front of each stall are in good condition and can be reinstalled after new pavement installation (see Figure 14).

Off street parking can be found in four locations around the site. There is a parking lot at the northwest corner of the school and on the previously mentioned west side (six stalls). There is also a parking area on the east side across the street and one on the west side across the street. Inadequate parking capacity and other parking issues are currently being resolved with the expansion of the east parking lot.

Landscaping around the building, including bushes, a rock bed, and trees, is in very good condition and helps the school blend well into the surrounding residential neighborhood. Minimal continued maintenance of the landscaping will provide the site with a clean and well-kept appearance (see Figure 15).

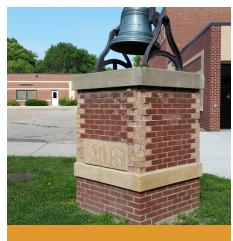


Figure II - Memorial Bell



Figure 12 - Existing stair railing







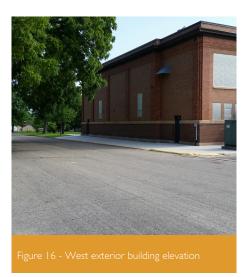
Page 10 www.is-grp.com



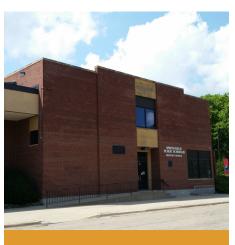
EXTERIOR BUILDING CONDITIONS

The exterior building material is a combination of several varieties of colored brick and stone block (see Figures 16, 17, and 18). The majority of the brick is in good condition. Most stone is also in good condition,

however, it was noted that stone in several locations is in need of cleaning (see Figures 19 and 20). On the west side of the building at the gym, stone blocks are installed at the ground elevation. One corner stone is deteriorated and should be replaced (see Figure 21). All other stone appears to be in good condition.











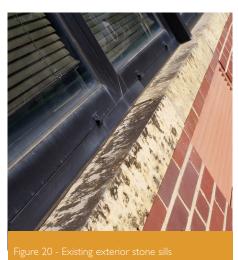




Figure 21 - Deteriorating exterior stone on west



The west side of the Elementary School wing has multiple locations where grout is chipping out of stone joints (see Figures 22 and 23). In the same locations, caulk has shrunk between brick control joints resulting in gaps (see Figures 24 and 25).

On the east side of the building, in the truck loading dock, brick has been damaged due to being struck by vehicles (see Figure 26). Brick replacement can be performed to return the brick to its original appearance. In some locations, cracks in the brick are four to ten feet long. At these locations tuckpointing is recommended, which will significantly reduce further damage (see Figures 27 and 28).

Building signage appropriately identifies the different functions of the building. Signage consists of white lettering on the face of brick walls. All signage is in excellent condition and requires minimal cleaning (see Figure 29).







Page 12 www.is-grp.com











Page 13 www.is-grp.com



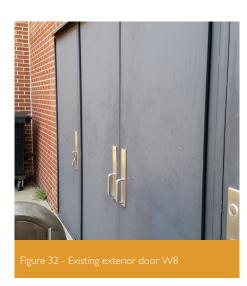
Doors

Exterior doors are constructed with hollow metal frames and glass lites. Overall, exterior doors appear in fair condition with minimal rusting. All doors are faded due to sun exposure and would benefit from new paint (see Figures 30 and 31). It should be noted that Door W8 specifically shows signs of rust and the handle on the northernmost door is damaged. Door W8 should be replaced (see Figure 32).

A door on the north side of the building poses a safety issue since the metal sweep at the bottom is bent back and sticking out. Replacement of the sweep would resolve the issue (see Figure 33). Many of the existing exterior doors are in need of weather seal replacements.









Page 14 www.is-grp.com



Windows

The majority of windows in the school are operational aluminum windows. Most appear to be in working condition with no signs of rust, broken glass, or deterioration. School personnel identified some leaking windows due to incomplete sealing. Seal replacement at these locations is recommended (see Figures 34 and 35). Additionally, hardware repair is needed at several windows throughout the facility.

A second window type is a Kalwall system which is located in the Elementary Gym. Kalwall is sandwiched fiberglass reinforced polyester panel. This particular window type is an older system and inefficient for heat retention. Replacement of this window type would result in better control of temperature in the gymnasium and provide day lighting in the gym (see Figure 36).



Figure 34 - Typical exterior window



Figure 35 - Exterior window

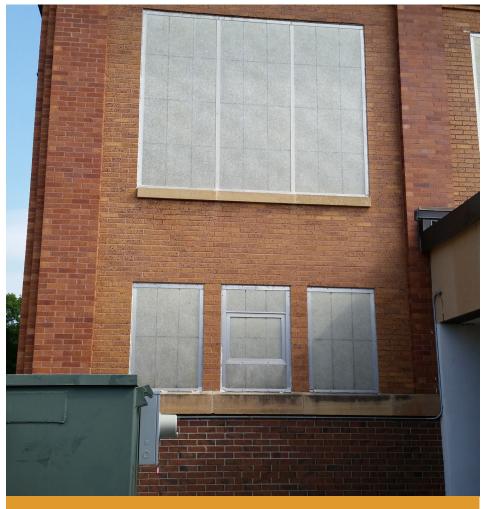


Figure 36 - Kalwall window type



Existing Roof

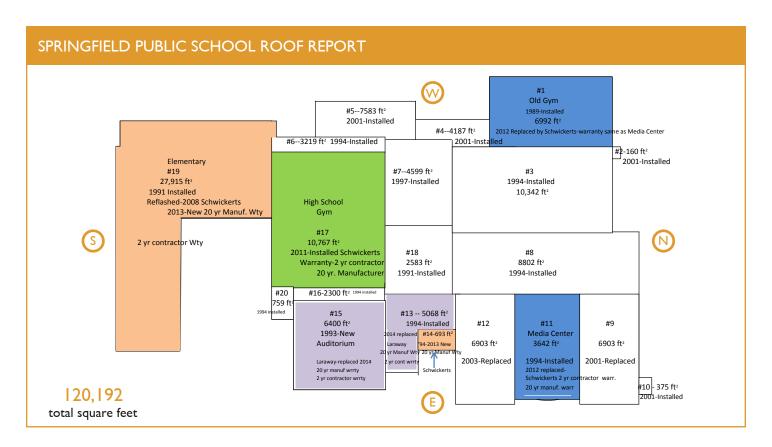
Utilizing records of roof replacement dates provided by the District, as well as a roof audit report completed in 2009 by Tremco Companies, ISG completed site verifications of the existing roof and observed interior damaged ceiling tile below the roof structure, indicating previous and/or current leaks.

The existing roof systems on the building include a combination of fully adhered, mechanically fastened, and ballasted EPDM (rubber) roof membrane systems. There is no available documentation explaining the reasoning for using different roof systems for each portion of the building. However, industry standard during typical roof replacement projects note to avoid installing heavier roof systems as sometimes the existing structure may not have the capability of carrying the additional load. Weight and costs are typically used in selecting the roofing type and may be the reasoning for past decisions.

Based on records and site observations, it appears that approximately 60,000 SF of roofing was replaced within the last 5 years. This comprises nearly 50% of the building's roof system. The replaced areas are located above the Elementary Gym, Media Center, High School Gym, Auditorium, Elementary Wing, and a few other minor areas. The flat, EPDM systems requires ongoing maintenance and replacement approximately every 20 years. Budgeting for roof replacement costs is often challenging for school districts, and as a result, many roof systems are continually repaired until long after their useful lifespan expires.

Site observations noted stained ceiling tile locations. This information often assists with confirmation of areas requiring roof replacement. However, once roof replacement is completed, often times stained ceiling tiles remain, making it difficult to know if staining is the result of past or current leaks. Therefore, for the purpose of this report, the stained ceiling tile adjacent to roofing areas replaced in the past five years were not considered as the current leaks.

There are other areas of the building where roof sections have not been replaced which have stained and damaged ceiling tile from water penetration. These locations, including classrooms and corridor on the second floor just north of the new gymnasium, south entrance vestibule to the auditorium, and cafeteria ceiling, should be considered for replacement. It was also noted that several areas of roofing previously identified for replacement are still pending.



Page 16 www.is-grp.com



Based on these considerations, it is recommended that the majority of the remaining roof square footage be replaced within the next five years. Following is a proposed roof replacement schedule.

PRIORITY	REPLACE EPDM (RUBBER) ROOFING
Priority I 2018-2020	46,785 SF
Priority 2 2021-2023	11,930 SF



INTERIOR BUILDING CONDITIONS

Due to the layout of the expansive facility, resulting from multiple additions and uses, the interior conditions portion of this report is separated by sections.

High School

The main entrance area empties into an open hallway. This area would benefit from a more secure vestibule area for visitors and students.

The north wing of the High School consists of both a first and second level with the following spaces: a science wing, small gymnasium, main gymnasium, library, wood shop, and auditorium. The interior of the building is generally in good condition.

The facility maintenance area in the north wing would benefit from the addition of storage shelves to make the area safer for employees and ensure hazardous materials are stored properly (see Figure 37). The athletic concession stand is in good condition, however, all equipment in this area should be upgraded from laminate to stainless steel (see Figure 38).



Figure 37 - Equipment stored in facility maintenance area



www.is-grp.com Page 17



Classrooms

Many classrooms are equipped with updated technology. In some locations, classrooms were updated and need no additional work. The north wing classrooms on the second floor have built-in cabinetry that would benefit from being updated.

Carpet is in good condition in most classrooms. In four classroom locations, carpet replacement is recommended. In a few other locations, 9x9 flooring tile was noted, which is indicative of the potential presence of asbestos. See the Hazardous Material Conditions section for more information on asbestos issues.

Wall paint in classroom locations is in good condition and does not require much more than continued maintenance. Minor touch up can be provided by school staff as necessary. In many locations, acoustical ceiling tiles (ACT) are stained from past roof leaks. These tiles should be removed and replaced to provide the school with improved appearance (see Figures 39 and 40).

The Music Room on the first floor includes a choir riser system that requires a guardrail for safety when above the finished floor level (see Figure 41). The Choir Room has acoustical panels on the wall to absorb sound. The panels are outdated and could use an upgrade. (see Figure 42).

Stairwells

The High School has five stairwells going up to the second level and two additional half-size stairs on the main level.

The stairway on the north wing of the building has tile on the walls that has broken off and needs replacement. There is also a patch on the wall that needs to be cleaned and painted to blend better into the existing wall (see Figures 43).



Figure 39 - Stained ceiling tile



Figure 40 - Broken ceiling tile





Figure 42 - Acoustical panels in Choir Room



Figure 43 - Existing stairwell landing wall finishes

Page 18 www.is-grp.com



Main Gymnasium

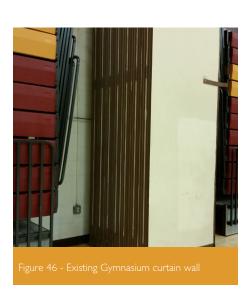
The main gym for the High School is located centrally in the building. Improvements were recently made with the replacement and installation of new plastic viewing bleachers. The wood floors in the gym are in excellent condition. There is a folding curtain wall that separates the gym into two smaller areas. This curtain is in low performing condition and should be replaced within the next five to ten years (see Figures 44, 45, and 46).

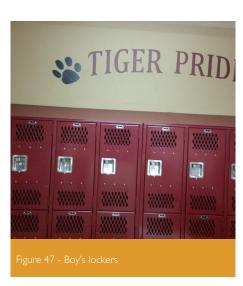
Boy's Locker Room

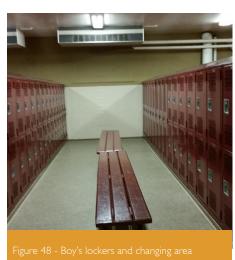
The Boy's Locker Room is adequately sized for the amount of student athletes in the school. The locker bay area provides adequate storage of equipment and student belongings (see Figures 47 and 48).













The shower area is located in a separate room accessed from the main locker room area. The flooring is sloped toward a drain allowing water to drain properly from the showers. The concrete floor and tile walls in the shower area could be upgraded (see Figures 49 and 50). The boy's locker room shower area does not meet current ADA codes. The entry door into the shower area is currently too narrow to accommodate accessibility. ADA codes also require reconfiguration of shower head locations. Floor drain locations will need to be reconfigured if shower head locations move, a trench drain is recommended.

Elementary School

The elementary wing is located in the building area to the south of the double doors which separate K-6th grades from the junior/senior high.

Classrooms

The Elementary School wing (south addition) is one of the newest additions. The hallways and offices are also in excellent condition (see Figure and 51). The classroom finishes are all in excellent condition with the exception of several classrooms that would benefit from carpet replacement (see Figure 52).

Stairwells

The stairway on the south wing of the building is in excellent condition. The rubber treads on the stairs are in nearly new condition and do not require modification (see Figures 53, 54, and 55).

Elementary Gymnasium

The smaller gym used for the Elementary School students is one of the oldest areas of the building. Renovations have been made to this area to update the space with school branding (see Figures 56, 57, 58, and 59). The windows in this area need to be replaced as mentioned in the exterior category (see Figure 60).



Figure 49- Boy's Locker Room showers



Figure 50 - Boy's Locker Room showers



Figure 51 - Elementary hallway

Page 20 www.is-grp.com

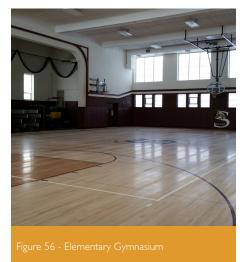




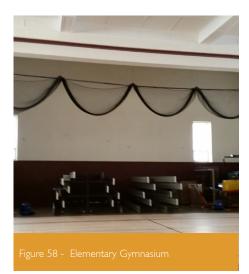


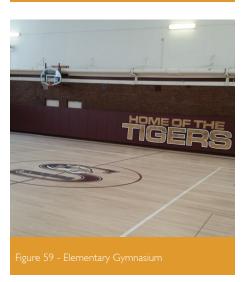
















General

Throughout the building, there are multiple stained ceiling tiles that need to be replaced. Replacing stained tiles will help determine which areas have current moisture problems and what roof leaks were previously resolved (see Figures 61 and 62).

Water fountains throughout the school include new and old fixtures. Continuation of upgrades until all original water fountains are replaced will achieve compliance with building code (see Figure 63 and 64).

Hallways

Hallways currently provide adequate circulation throughout the school and do not pose large traffic issues. Hallway floors are kept up nicely and waxed annually. The walls in the hallway areas are also in good condition. Lockers line some hallway areas and while in working condition, due to their age and condition, locker replacement should be considered in the near future.

District Office Spaces

The main District office is located on the first floor of the north wing. The office was recently renovated and provides the District with adequate space to operate efficiently. A storage closet in the office has 9x9 floor tile that poses a concern for asbestos. See the Hazardous Material Conditions section for further considerations.

Kitchen

The Kitchen was upgraded during the summer of 2016 with new flooring (see Figures 65 and 66). Due to construction, ISG was only able to view the interior of the space from outside of the kitchen. The new flooring installed in the kitchen was well done and will be a quality improvement for the school. There was a food prep cart in the cafeteria that had painted metal cabinetry under the counter top, this not code compliant and should be replaced with a full stainless steel prep stand (see Figure 67). The ACT in the kitchen is perforated and by code needs to be a hard washable type. Replacement of ceiling grid will bring it up to code (see Figure 68).









Page 22 www.is-grp.com





LIFE SAFETY CONDITIONS

The school provides students and faculty with adequate egress in its current configuration. Both exiting and egress appear to be in compliance.

The existing building contains a partial fire suppression system. The existing elementary wing, along with the most recent building additions of the large gymnasium and auditorium area, contain an automatic fire sprinkling system. The north portion of the building containing the High School, Junior High, and District Offices does not have an existing automatic fire suppression system. Per current building code standards, this area requires a fire suppression system.

A copy of the State Fire Marshal Inspection and Compliance Orders dated April 22, 2016, was provided to ISG by the District. The Fire Marshal flagged many minor items that the District has likely already addressed; however, while there is a partial fire sprinkler system the report stated, "It is recommended that the entire building is upgraded to a complete fire sprinkler system."

The existing fire detection system is over 20 years old and replacement is recommended. A good time to do this would be during the installation of a fire suppression system throughout the remaining building. It was also recommended to replace the stage curtains due to being 20-years old.





Figure 66 - New kitchen flooring



Figure 67 - Existing non-compliant food prep cart



Figure 68 - Existing kitchen ACT



HAZARDOUS MATERIAL CONDITIONS

throughout the building. Improvements to the building may require disturbance of these locations, and proper asbestos removal procedures will be required. The locations of these floor tiles include various supply closets on the northeast corner of the first floor and classrooms on the northeast second floor, wall locations in the northeast preschool classrooms, and Boy's Locker Room office. Hazardous material assessments should be scheduled in conjunction with any future renovation work within these respective areas (see Figures 69, 70, 71, and 72). Without an official hazardous material inventory completed by a licensed hazardous material inspector, total inventory and costs cannot be determined at this time.

The presence of asbestos is anticipated in floor tile and wall locations





ACCESSIBILITY CONDITIONS

The existing ramp entering the building from the northeast corner does provide required accessibility, however new handrails on each side should be provided. All other areas of the building are accessible via the

use of ramps and elevators. Exits from the facility also provide adequate egress.

The elevator is located in the west side of the second floor and center of the first floor. The elevator provides the required accessibility to the second story. The Elementary School is all one level. In the Technology Education Department there are doors with knob style handles. Building code requires all door handles to be lever style (see Figure 73).

Almost every restroom lacks accessibility in accordance with ADA standards. The last stall in the restroom, which is commonly considered the accessible stall, should be 60" wide by 78" deep. To accommodate these dimensions, revisions of the restroom layouts are needed (see Figures 74 and 75).

The boy's Locker Room shower area does not meet current ADA codes. The entry door into the shower area is currently too narrow to accommodate accessibility. ADA









Page 24 www.is-grp.com



codes also require reconfiguration of shower head locations. Floor drain locations will need to be reconfigured if shower head locations move, a trench drain is recommended.



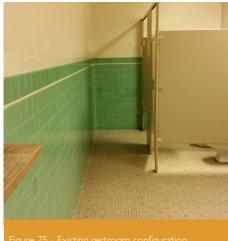
PLUMBING CONDITIONS

The water service comes into the facility in the Boiler Room. The water meter and service is a 3" line (see Figure 76). The building has a water softener located in the Boiler Room. The water heater is also located in the

Boiler Room and consists of an approximately 500 gallon storage tank, 100,000 BTU boiler with circulation pumps, and building recirculation pumps (see Figure 77).

The restroom group near the Wood and Metal Shop, Office, and on second floor have old plumbing and fixtures that appear to be in need of replacement (see Figure 78). There is a shower in the Locker Room, and a toilet adjacent to the First Grade Room that leaks (see Figure 79).













Page 25 www.is-grp.com



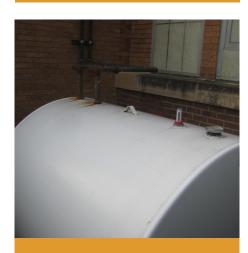
MECHANICAL CONDITIONS

The building's heating is served by two, 5312 MGH steam boilers. There are a few smaller areas that use the steam heat but most of the steam is converted to hot water which is then pumped throughout the facility

(see Figures 80 and 81). The boilers are dual fuel and typically fire with natural gas but when requested by the natural gas utility, they can be switched to operate with fuel oil (see Figure 82). There are portions of the school that are cooled. Those areas have direct expansion refrigerant systems (see Figures 83 and 84).











Page 26 www.is-grp.com



MAP LEGEND

- Area A (Elementary School)
- B Area B (High School)
- Area C (Elementary School Gymnasium)
- D Area D (High School Gymnasium)

- E Area E (Building + Grounds Maintenance)
- F Area F (Auditorium)
- G Area G (ECFE, Special Needs Rooms and Media Center)



Area A (Elementary School)

The Elementary School Office has a roof mounted air handler (see Figure 85). The Computer Lab has a roof mounted air handler. Classrooms have unit ventilators located along the outside wall of each room. One classroom was converted to a computer room in which two mini splits were added for cooling. On the day of the walk through the classroom had extreme high level of humidity that caused the floor to have condensation. A dehumidification system would address humidity for this entire wing.

Area B (High School)

The Biology and Chemistry areas are served by wall mounted unit ventilators for heat and ventilation and fin-tube radiation along the west walls. The Lunch Room and Choir Room are served by a roof mounted air handler and fin-tube radiation along the west walls. This unit is loud and appears to be old and due for replacement. No date or name plate could be found on the unit.

Area C (Elementary School Gymnasium)

The Elementary Gym is served by two air handlers located in the northwest and southwest corners of the area above the storage and electrical rooms (see Figure 86).

Area D (High School Gymnasium)

The Main Gym is served by two air handlers (see Figure 87) located in the northwest and southwest corners of the area above the storage and electrical rooms along with fin tube radiation along the north and south walls of the space. While on site there was a large pressurization difference between the gym and the auditorium corridor.

Area E (Building + Grounds Maintenance)

This area is served by roof mounted air handlers and indoor air handlers. The Grounds and Maintenance Room does not have an exhaust system. The exhaust is needed due to storage of gas power equipment and repairs being performed in the space. Since the facility still has areas where steam is being used, the boiler is steam type with a steam to hot water converter that supplies the majority of the facility. The boilers are fueled by both natural gas and fuel oil. The building hot water heater system consists of many pumps located in the building and at the air handler's rooms which creates





Figure 86 - Gymnasium ductwork

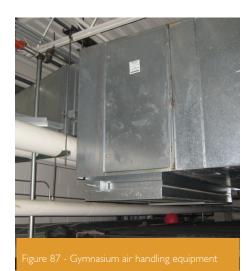




Figure 88 - Heating pumps



Figure 89 - Pump parts during repair

Page 28 www.is-grp.com



extra maintenance compared to a single pumping with Variable Frequency Drive (VFD) control (see Figures 88 and 89).

The condensate tanks were reported to leak and cause water and humidity with in the building which increases humidity levels and causes odors. The tunnel has an exhaust fan but it does not seem to carry the odor out. The exhaust fan does not solve the cause of the excess humidity. Elimination of the source of excess humidity should be considered by the District. Addressing the source of the humidity issues could be resolved if the moisture is coming from the leaking condensate tank or ground water filter through the tunnels walls. This moisture can evolve into much worse problems related to indoor air quality. Typically exhausting the tunnel is a good way to remove odor and keep the space negatively pressured so that the odor cannot migrate to occupied areas.

Area F (Auditorium)

This area is served by indoor air handlers. The dimming rack located in the auditorium catwalk area overheats and should be placed in a separate room with better climate control (see Figure 90). A mini split system or exhaust system should then be added for climate control.

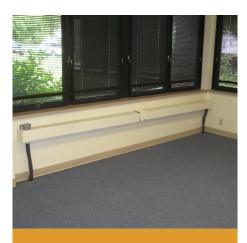
Area G (ECFE, Special Needs Rooms, and Media Center)

This area is served by indoor air handlers except for the special needs and ECFE rooms. They have fin tube radiation only (see Figure 91). These two rooms do not have any ventilation.

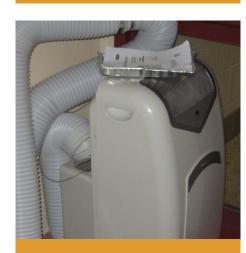
Information Technology (IT) Area

The IT Room near the Media Room has a large heat gain from equipment located in it which will need a mini split system to provide cooling. (see Figures 92 and 93). The IT Area over heats due to added equipment and no year-round cooling available. If the door is not propped open, overheating can damage equipment.









Page 29 www.is-grp.com

Mechanical Overview

Based on the age of the boiler system and the use of fin tube radiation systems within the facility, along with the maintenance related costs and lack of parts available for replacement, the District would benefit from an increase in energy efficiency, reduced maintenance costs, and more consistent temperature control with a complete replacement of the boiler system. The boiler for the domestic hot water system is of standard efficiency at 80% to 83% and non-condensing type. A new boiler water heater would have efficiency up 96%.

The boilers for the building heating system are steam boilers with a standard efficiency of 77% to 80%. A new boiler plant could gain efficiency up to 96%. The boiler can be converted to hot water type boilers to gain efficiencies to 82% for at least the use as a backup boiler but it will depend on the condition of the boiler tubes and other conditions. When the boilers are replaced or converted there are existing steam components throughout the facility that will need replacement to a hot water system.

While the building's heating, ventilation and air conditioning (HVAC) system has the potential to be able to meet the ASHRAE 62 requirements, it currently does not have the equipment necessary to verify. A test and balance of the building would need to be performed to verify that the proper outside air is coming into the facility. Much of the HVAC unit ventilator, roof top units, and air handlers have the potential to deliver the proper air, however the current system does not have any outside air flow measuring stations at the equipment's intake or CO2 monitors in the occupied spaces of the building. These monitoring systems would provide the information needed to determine if the ASHRAE 62 verification standards are met. Based on known and estimated dates of installation of mechanical equipment, the District should plan for replacement based on estimated life expectancy for each unit.

Unit Ventilators

Unit ventilators are mainly located in the Elementary Wing (Area A - 1991) and a few others scattered around the facility have a life expectancy of 30 to 35 years. Age related issues for these units relate to the fans and outside air dampers that can become unreliable. These units also do not have an opportunity to add energy recovery.

Roof Top Units

Roof top units (RTU) located in many areas of the building have a life expectancy of 15-20 years. The refrigerant system of the RTU requires the most maintenance and repairs due to the mechanic involved along with the dampers. The units also do not have an opportunity to add energy recovery unless they are replaced.

Indoor Air Handling Units

Indoor air handling units are located in many areas of the building and have a life expectancy of 25-30 years. Those with remote condensing refrigerant units typically require maintenance and repairs due to the mechanic involved along with the dampers. The units have an opportunity to add energy recovery by re-ducting the return air system and adding a roof mounted energy recovery unit.

Cooling

The existing equipment with cooling components have a Seasonal Energy Efficiency Rating (SEER) of 8 to 10. New equipment would provide a more energy efficient SEER score of 13 or more, with an anticipated savings of 30% of the energy used for cooling/dehumidifying the facility.

Boiler Replacement Considerations

There are several considerations that should be made regarding boiler replacement. Additional investigation would be required to verify the remaining portions of the building that still use steam heat which is estimated at 15% of the building. Those areas would not heat properly if the building boilers were changed to hot water systems and would therefore require new equipment.

Newer boilers require less repairs and maintenance, reducing those costs in addition to reducing fuel costs. The size of boiler system would need to be evaluated to address any changes in the building occupancy or size of the building. The building does not have a variable frequency drive (VFD) which would provide additional control over the system for efficiency.

Energy Star Rebates are available for purchasing Energy Star rated lighting, appliances, and heating and cooling products.

Page 30 www.is-grp.com



ELECTRICAL CONDITIONS



Overview

Due to the various systems in use, applicable District staff would benefit from conducting a user educational program and checklist. The addition of photo sensors will allow timed lights to be turned on in instances when skies are darkened by cloud cover from storm events.

Existing Systems

The building is served from a 500 kVA ground-mounted transformer on the west side of the building. The main electrical service is just west of the small gym and terminates into a main fusible disconnect rated at 2,500 amps, with a voltage of 208, three-phase (see Figure 94). The main electrical equipment was replaced in the 1993 addition and appears to be in good condition. The electrical service size is appropriate for the size of the facility. The main service equipment contains an 800-amp breaker that serves the original main service equipment. This equipment is showing signs of age and at one point had water leaking onto the equipment. It appears this has been corrected but the stains from the water still appear on the equipment (see Figure 95). The original equipment consists of fusible switches. If they are not switched on or off once a year, the mechanisms to turn them off tend to lock up and do not function. This does not prevent the fuses from protecting the circuit, and it is not a hazard until a switch is needed to be switched off to perform service.

There are several locations throughout the facility that have branch panels that serve lighting and receptacle circuits. Most panels are in good condition. There are areas, such as the Boy's Locker Room, where a panel is located that is more likely to be damaged by students. In upper area B (High School) there are original Federal Pacific (FPE) panels. These panels are original to the building, are outdated and no longer manufactured, therefore finding replacement parts and breakers is difficult. If circuits need to be modified in the area, it is recommended that the panels be replaced.

The electrical service size is adequate for the size of facility. Should areas require more mechanical cooling or increased ventilation, a detailed analysis would need to be performed to confirm the existing service has the capacity for the equipment.

Exterior Lighting

While exterior the east side wall lighting packs appear to use LED's, the fixtures weren't illuminated during the site visit, yet they appeared to be in good working condition. The West side uses metal halide which could be replaced to receive energy savings.

Fire Alarm System

The facility has a fire alarm system with the main panel located in upper area B (High School), and an annunciator is located near the east main entrance to direct the fire department to the alarm location. The fire alarm appears to have been replaced in 1993. The fire alarm panel is a Simplex 4020 and is in fair condition. Fire alarm detection devices (heat and smoke detectors) and notifications devices (horn strobes) are located throughout the facility in locations expected. Smoke and heat detectors are located in mechanical and storage rooms, and horn strobes are located in corridors and large assembly spaces. The current fire alarm panel has been replaced with new models and any significant failure would result in replacement of the panel. Concurrent with the State Fire Marshal's recommendation, the entire system is due for replacement. Additional information about fire suppression system is the Life Safety Section of this report.





Figure 95 - Original electrical service with water



Figure 96 - Main electrical service



Interior Lighting

The interior lighting consists mainly of linear fluorescent T8 light fixtures. Generally, the light fixtures are in good to fair condition. Light levels are appropriate in corridors, gymnasiums, and classrooms. Linear fluorescent T8 light bulbs are efficient and still widely used and available. Common areas including main corridors, entries, and exterior lighting are controlled by a lighting control panel to automatically turn lights on/off. The lighting controls system could be expanded to include classrooms for additional energy savings. The lighting controls have exceeded their estimated useful lifespan but appear to still be functioning properly (see Figure 96 on previous page).

If significant modifications are made, current energy codes require lights to automatically turn off when a space is not being occupied. Also, certain areas would require lights to automatically dim based on the natural sunlight coming into the space. These requirements reduce energy consumption and operating costs when the space is not being used. The Media Center currently has metal halide light fixtures. LED light fixtures could be installed resulting in significant energy savings.

The Music Room and Locker Rooms do not have illuminated exit signs. Powered signs should be installed for safety. Main egress lighting is powered from a generator providing the proper lighting to exit the building.



SECURITY CONSIDERATIONS

The two primary entries adjacent to the administration areas of the building do not currently have secure vestibules that require visitors to be checked in before continuing on throughout the building. At the elementary wing, relocating a pair of doors and upgrading the hardware of the office door could provide such security. The northeastern entrance at the District offices would require a new secure vestibule addition due to the close proximity of open stairs to the entry.

All exterior doors should be outfitted with door position switches tied into a monitoring system. The School should be aware if doors are being opened and/or propped open. Additional surveillance cameras should be added inside and outside the building.



TECHNOLOGY CONSIDERATIONS

An analysis was performed to evaluate the existing conditions related to the Technology system. Potential risks to the security and overall functionality of the current systems have been outlined along with an assessment of the risk levels associated with each.

Backup Procedures

POTENTIAL RISK: HIGH

Verify backups are being done on all servers and at least one copy is being stored off site. Without off-site storage of backup data the District is at risk of losing all email, documents, etc., in the event of a disaster.

Firewall

POTENTIAL RISK: HIGH

Verify a physical firewall is in place with an up-to-date maintenance subscription. A firewall is the main device that protects the District internal network from outside Internet threats.

Page 32 www.is-grp.com

Windows XP Use

POTENTIAL RISK: HIGH

Support for Windows XP ended on April 8, 2014. Microsoft will no longer provide security updates or any technical support for this operating system. The District should consider upgrading to Windows 7 or 10.

Server 2003

POTENTIAL RISK: HIGH

Support for Windows Server 2003 ended on July 14, 2015. Microsoft will no longer provide security updates or any technical support for this operating system. The District should consider upgrading to Server 2008 or 2012 R2.

Exchange 2003 R2

POTENTIAL RISK: HIGH

Support for Microsoft Exchange 2003 ended April 8, 2014. Microsoft will no longer provide security updates or any technical support for this product. By not upgrading, the District are at risk of not being able to move mailboxes to future releases. Currently, Exchange 2003 is far enough behind that there is no easy native solution to migrate to Exchange 2013 or 2016. The District will have to use a third party migration tool. The District should consider upgrading to Exchange Server 2016 on premise or through Office 365. Other options would include Google Apps for Work, Zimbra, or Groupwise.

Network Documentation

POTENTIAL RISK: MEDIUM

Verify a network documentation system is being kept safe and software inventory is available. Without any network documentation, the School could be at risk, especially if the only staff with that information became unavailable. If a Software Inventory is not available, the District could be at risk if Microsoft asked for verification of that information. If the information cannot be verified, Microsoft will do an audit and fines are possible.

Microsoft Security Essentials as Anti-Virus

POTENTIAL RISK: MEDIUM

Purchase Microsoft System Center 2012 Endpoint, Kaspersky, AVG, Vipre, or a similar security software. Under Microsoft's License Policy, Security Essentials can only be used for home installs or small businesses with up to 10 PCs. Currently, the District would be in violation of that policy.

All Physical Servers

POTENTIAL RISK: LOW

The District could also consider implementing a virtual environment using VMware ESXi, Microsoft Hyper-v, or XenServer. This could lower physical server count to one machine, allowing all servers to be virtualized on that box. This would save on power consumption, cooling needs, and provide an environment with many more options regarding software changes and disaster recovery strategies.

Network Wiring

POTENTIAL RISK: LOW

Rewiring the Server Room and both wiring closets with correct cable lengths would benefit the District. Cables can be neatly tied together with Velcro when done correctly to alleviate confusion associated with disorganized cabling, which can make it very difficult to trace a cable in the event of an issue or pulling a switch out of the rack to replace it.

PROGRAMMATIC CONSIDERATIONS

As noted in the introduction of this report, Springfield School has 650 students enrolled in preschool through twelfth grade. The facility has an Elementary wing complete with administration offices and shares a Cafeteria, Physical Education, Auditorium, and other support spaces with the Junior and Senior High population.

The majority of core classroom spaces meet or exceed the Minnesota Department of Education's guidelines for quantity and square footage.

While portions may require renovation to accommodate future needs as they arise, overall administration areas appear to contain adequate space to meet the demands of operations.

Unfortunately, some of the support spaces and elective educational spaces within the facility do not support the same potential. The Art Room is currently serving both two-dimensional and three-dimensional art classes. Undersized, it is also encumbered with

limited support spaces. Ideally, there would be separate spaces for each discipline. The Fitness/Weight Room is too small to adequately serve as a teaching station for Physical Education. Storage and locker rooms are sufficiently sized.

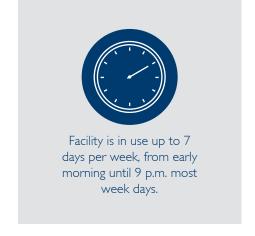
The Industrial Technology/Agriculture/Automotive Shop is also undersized and encumbered with limited support spaces. When work is required on vehicles, it must be completed outdoors.

While there is adequate Gymnasium space for the current student population for educational purposes, increases in extracurricular activities and community education programs are surpassing the capacity of the current facilities. For example, space used for varsity sports practices held after school hours, requires community education programs to be held later in the evening for younger students. This late activity schedule may not be ideal timing for the younger students who benefit from more hours of sleep. Therefore, the extra-curricular activities and community use of Springfield Public Schools exceeds capacity available. Expanding community offerings beyond student use is limited with current space availability.

Presently, there are no designated flexible learning areas to specifically enable small group work or break out opportunities. Portions of the building, such as the para-professional planning area and select computer labs, could potentially be used for this function. To lighten the burden of three lunch periods, the student commons require approximately a third more square footage to comfortably handle the current student population. If enrollment were to increase, the majority of core academic spaces would accommodate the required increase.

The District also expressed the need for teacher resource areas throughout the building. It would be beneficial for staff within the same department to have a space for collaboration and curriculum planning. In planning for the future, the District may also select to renovate some areas of the facility to accommodate more ECFE programming.

A Space Needs Assessment was conducted and a summary of the results is contained in the Appendix. Currently, costs for programmatic considerations are not included in this report. ISG and the District will need to further define the parameters of these items to generate a cost.



OPPORTUNITIES

Separate spaces for two- and three- dimensional art classes

Increase size of Fitness Center

Review space for extra-curricular and community use

Add teacher collaboration spaces

Add flexible learning areas for para planning and slect comp lab areas

Increase student Commons by third

Relocate select areas for ECFE programming

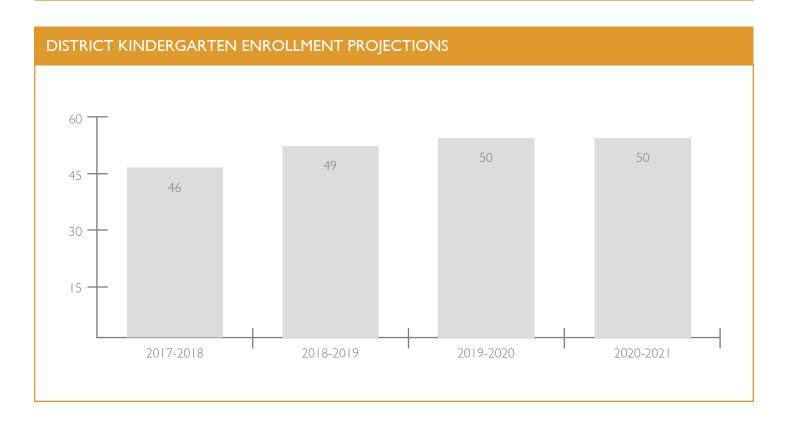
Page 34 www.is-grp.com



SNAPSHOT OF EVENTS + ACTIVITIES AT SPRINGFIELD PUBLIC SCHOOL



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
OPEN GYM	SCHOOL	SCHOOL	SCHOOL	SCHOOL	SCHOOL	SPORTS PRACTICE
	8:00 a.m 3:00 p.m.	8:00 a.m 3:00 p.m.	8:00 a.m 3:00 p.m.	8:00 a.m 3:00 p.m.	8:00 a.m 3:00 p.m.	8:00 a.m 12:00 p.m.
SPRING MUSICAL	SPORTS PRACTICE	SPORTS PRACTICE	SPORTS PRACTICE	SPORTS PRACTICE	SPORTS PRACTICE	CLUB MEETING
	3:15 p.m 5:30 p.m.	3:15 p.m 5:30 p.m.	3:15 p.m 5:30 p.m.	3:15 p.m 5:30 p.m.	3:15 p.m 5:30 p.m.	I:00 p.m 3:00 p.m.
	LEGO LEAGUE	COOKING CLASS	LEGO LEAGUE	COOKING CLASS	FUNDRAISER	JV GAME
	5:30 p.m 7:30 p.m.	5:30 p.m 7:30 p.m.	5:30 p.m 7:30 p.m.	5:30 p.m 7:30 p.m.	5:30 p.m 7:30 p.m.	4:00 p.m 7:30 p.m.
	VARSITY GAME 7:30 p.m 9:30 p.m.	VARSITY GAME 7:30 p.m 9:30 p.m.	FFA MEETING 7:30 p.m 9:30 p.m.			VARSITY GAME 7:30 p.m 9:30 p.m.



Priorities + Estimated Costs

PRIORITY SUMMARY

Based on the items evaluated in the previous section, any issues or deficiencies documented have been assigned a level of priority and an estimate for costs.

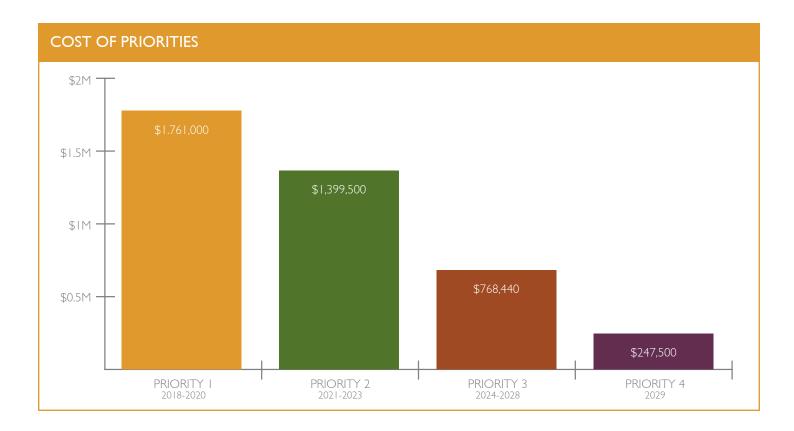
The issues with the highest priority items, include life safety deficiencies, while less urgent issues including necessary maintenance, replacement, and aesthetic improvements are defined with lower priority levels. While lower priority items still warrant attention, they are not critical to safety, security, or health concerns (please note that currents costs shown are estimated construction costs only. For total project costs, 20% - 25% should be added to the construction costs of the following items):

- · Project administration
- Permitting
- Owner fixtures and finishes
- Design fees

The following summary outlines the priority levels identified within this report, as well as the recommended time frame to address any issues.

PRIORITY	ISSUE	DESCRIPTION
	Life Safety	As typically noted by Fire Marshall/ Life Safety Officials.
	Deterioration	Further deterioration will create higher future repair costs or may cause damage to other areas of the structure.
Priority I 2018-2020	Health	Areas that do not meet the state health code requirements. Mechanical systems that do not currently comply with ASHRAE Standards are given a high priority. However, these upgrades are not mandated and would not be required unless other substantial work is being done to the facility and systems in question.
	Accessibility	Items that must be completed to allow access to the building or primary function areas within the building.
	Hazardous Material	Items that pose a significant impact to building occupants.
	Energy	Item results in payback within 10 years or less.
	Deterioration	Material or system that currently functions but will require replacement or major maintenance within five years.
Priority 2 2021-2023	Accessibility	Modifications required to meet state guidelines.
	Hazardous Materials	Removal of items affected by other changes occurring in Priority 2.
	Health	Inadequate exhaust and ventilation near lab equipment or other areas lacking adequate ventilation.
	Energy	Item results in payback in more than 10 years.
	Health	Items that do not meet state health code requirements.
Priority 3 2024-2028	Deterioration	Material or system currently functions but will require replacement or major maintenance in 6-10 years.
	Hazardous Materials	Removal of item affected by other changes occurring in Priority 3.
	Aesthetics	Item which impacts the visual environment.
Priority 4 2029	Hazardous Material	Removal of items affected by other changes occurring in Priority 4.
	Accessibility	Items which do not meet full requirements of federal accessibility guidelines.

Page 36 www.is-grp.com



PRIORITY	DESCRIPTION	ESTIMATED COST			
	Add fire suppression system to High School, Junior High School, and District Office areas to meet fire code requirements	\$400,000.00			
	Install a guardrail at Choir Room risers	\$3,000.00			
	Install ADA handrails at both sides of NE main ramp entrance	\$3,500.00			
	Replace miscellaneous door knobs with ADA lever style hardware (allowance)	\$2,500.00			
	Replace existing portions of EDPM roofing 0-2 years (46,785 SF)	\$560,000.00			
	Replace fire alarm system throughout entire facility - previous replacement occurred in 1993	\$30,000.00			
	Replace bent metal sweep at north door	\$500.00			
	Add illuminated exits signs to Music Room and Locker Rooms	\$3,000.00			
	Install shelving in Facility Maintenance Area	\$2,000.00			
Priority I	Replace shrinking or damaged caulk joints at exterior of building	\$2,500.00			
2018-2020	Create secure entrance vestibule at NE entrance near the District Office	\$75,000.00			
	Upgrade hardware and create Secure Entrance Vestibule at Elementary Entrance	\$25,000.00			
	Upgrade to Windows Server 2008 or 2012 R2	\$30,000.00			
	Migrate email to Exchange 2013 or 2016 (third party migration tool with be necessary)	\$15,000.00			
	Install dehumidification to serve Area A - Elementary Wing	\$350,000.00			
	Add exhaust to landscaping Storage Room	\$9,000.00			
	Replace rooftop air handler serving Choir Room and Lunch Room	\$150,000.00			
	Add ventilation to Special Needs and ECFE Rooms	\$85,000.00			
	Upgrade to Windows 7 or Windows 10	\$15,000.00			
	TOTAL	\$1,761,000.00			

PRIORITY	DESCRIPTION	ESTIMATED COST
	Replace painted metal kitchen cabinet with stainless steel cabinet	\$3,000.00
	Modify Boy's & Girl's locker rooms showers and restrooms to comply with ADA	\$200,000.00
	Update existing building restrooms to comply with ADA requirements	\$700,000.00
	Replacement of ceiling grid in Kitchen with new washable ceiling tile per MDH code	\$11,000.00
	Replace existing portions of EPDM roofing 5-10 years (11,930 SF)	\$150,000.00
	Replace damaged and stained ceiling tiles throughout building	\$1,000.00
	Add handrail at SE stair on inside of stair adjacent Auditorium	\$2,500.00
	Installation of new mulch in Playground Area	\$15,000.00
	Develop network documentation and software inventory	\$4,500.00
	Install anti-virus software appropriate for business/education use	\$4,500.00
	Relocated dimming rack in Auditorium to separate room with better climate control to avoid overheading, Install mini-split system or exhaust system for climate control in this area	\$30,000.00
Priority 2	Add mini-split to IT near the Media Room to provide adequate cooling for equipment	\$12,000.00
2021-2023	Update hydronic heating pumps to a variable speed/flow (VFD) secondary system with two pumps instead of multiples located throughout the facility	\$100,000.00
	Replace panels in upper Area B	\$10,000.00
	Replace metal halide light fixtures with LED fixtures in Library	\$7,000.00
	Minor Tuckpointing of exterior brick (allowance)	\$15,000.00
	Replacement of asphalt around existing Playground Area	\$35,000.00
	Removal and replacement of concrete slab at theatre Loading Dock Areas	\$25,000.00
	Repave and stripe six stall parking lot on west side of building	\$10,000.00
	Install stainless steel casework and equipment in Concessions per MDH code	\$10,000.00
	Asbestos tile removal if impacted by other work	TBD
	Carpet replacement at select rooms in facility needing replacement	\$50,000.00
	Brick replacement and cleaning of Bell Memorial	\$4,000.00
	TOTAL	\$1,399,500.00

Page 38 www.is-grp.com

PRIORITY	DESCRIPTION	ESTIMATED COST
	Upgrade remaining water fountains (bottle filler type)	\$6,000.00
	Replace Kalwall windows located in Elementary Gym with energy efficient windows	\$100,000.00
	Miscellaneous repair of spalling concrete throughout site	\$5,000.00
	Bike rack replacement	\$900.00
	Replace door W8 at west side of building	\$8,000.00
	Provide flammable liquid storage cabinet in Yard Storage Room.	\$1,600.00
	Upgrade sound absorbing panels in Choir Room	\$6,000.00
B 1 1 2 B	Patch and resurface wall on north stairwell	\$1,000.00
Priority 3 2024-2028	Replace stage curtain in main Gymnasium	\$10,440
2021 2020	Replace carpet runners in Auditorium	\$15,000.00
	Clean exterior signage	\$500.00
	Paint all exterior doors	\$5,000.00
	Address pressurization difference between Gym and Auditorium corridor	\$7,000.00
	Install new high efficiency boiler plant	\$350,000.00
	Replace main electrical service breaker	\$75,000.00
	Update outdated lighting controls	\$150,000.00
	Relocate select branch panels	\$25,000.00
	Stone cleaning around the building - pressure wash	\$2,000.00
	TOTAL	\$768,440.00
	General landscaping improvements (allowance)	\$5,000.00
	Upgrade of built-in cabinetry in classrooms second floor	\$30,000.00
	Replace lockers in High School	\$106,000
	Renovate areas to incorporate more ECFE programming	TBD
	Expand Student Commons Area	TBD
	Upgrade and expand existing Fitness/Weight Room	TBD
Duianity 1	Upgrade and expand support spaces and educational elective spaces such as the Art Room	TBD
Priority 4 2029	Incorporate flexible learning areas to better facilitate small group work and breakout spaces	TBD
	Install backup procedures with offsite storage	\$25,000.00
	Install up-to-date firewall	\$4,500.00
	Implement virtual environment	\$12,000.00
	Rewire network in server room and both wiring closets	\$5,000.00
	Replace plumbing and fixtures on second floor	\$16,000.00
	Replace plumbing and fixtures within restroom group near the Office	\$32,000.00
	Replace plumbing and fixtures within restroom group near the Wood and Metal Shop	\$12,000.00
	TOTAL	\$247,500.00



Space Needs Assessment Summary

A space needs assessment was conducted to consider square footage with programming needs, current uses, future needs, and capacities. This summary spreadsheet shows results of the findings that were incorporated into considerations and recommendations throughout the Facility Assessment Report.

Special Brooking Acc													ISC	G
SPACE PROGRAM ASS SPRINGFIELD PUBLIC S	PROPERTY OF THE PROPERTY OF THE PARTY OF THE										Proje	ect #1	8829	
SPRINGFIELD I ODE.O O	CHOOL3 - 13D #03										Septer	2000000	0.000	
											Эеркы	nine.	2010	
- · · · · · · · · · · · · · · · · · · ·			_					_	_			_		
	K-12 600													
Staff	600													
Stall			Evi	isting						- 15	ow Range		Hig	h Range
Description	Notes	Room #	Qty				Total Stud. Load	Qty		Net SF	Subtotal		Net SF S	Subtotal
Classrooms				School	Learning Spac	es		-						
	Restrooms 64 sq.ft., and Stor. 93 sq.ft. i	C172 C177	2	1,988	1,988	15	30	1 2	15	1,000	2,000	25	1,400	2,800
	Restrooms and storage sq.ft. included		3		3,459	14		3	15	1,200			1,500	4,500
1st Grade		A108, A109	2	1,897	1,897	17	33	3 2	15	850	1,700	25	950	1,900
2nd Grade		A119,A118	2		1,792	16							950	1,900
3rd Grade		A120, A121	2	1,792	1,792	16				850		25	950	1,900
4th Grade 5th Grade		A135, A136 A138, A141	2		1,792 1,795	16 16							950 950	1,900 1,900
6th Grade		A142, A143	2		1,795	16							950	1,900
World Studies		A116	1		898	16			15					1,555
	math, social studies, english, spanish	C123, C124, C125, B208, B206, B217, B218, C212, C213, C235, C236	11		10,819	17	191						950	10,450
	health	B216	1	1,001	1,001	20	20	-				\vdash	\rightarrow	
AND THE RESERVE OF THE PARTY OF	nearm	B210		1,001		20					25.450	\vdash		20.45
Subtotal (Classrooms)			+		29,025		492	╄			25,150	\vdash		29,150
Common Spaces		 	++	 			-	┰				\vdash		
Large Group/Multipurpose Rm	15 SF per student	A167	1	1,995	1,995	133	133	1		15	15		15	15
Small Group / Conf / Office	<u> </u>	A134,C148,C182	3		508			1		150	150		200	200
Subtotal (Common Spaces)					2,503		133	,			165			215
			+					╄				\vdash		
Library / Media Center	8-10% of students x 35 SF	C150	- 1	4,942	4,942	82	82	1		35	1,680	\vdash	35	2,100
Seating / Stacks Comp / Ref Multimedia Production	8-10% of students x 33 SF	C150		172	172	02	02	1		300			400	400
Work Room / Storage		C151, C152, C153	3	918	918			3		400	1,200		600	1,800
Subtotal (Library / Media Cent	er)				6,032		82	2			3,380			4,500
Technology		1000 4044		0.000		45		Ļ	45	1 000	2.222	20	. 100	1.00
Computer Lab Control and Headrooms		A132, A303, A311 A133	3	3,022 113	3,022 113	15	45	3	15	1,000 640			1,400 740	4,200 740
TV/Video Studio		C227	1	956	956	11	11	1 1	15				1,250	1,250
Subtotal (Technology)		0221		555	4,091	100	57		10	1,200	6,290		1,200	7,890
oubtour (reciniology)		 	+		-1,00		-	+			*,=			.,
Science														
Classroom / Lab		B121, B126	2	2,418	2,418	15	30	2	15		2,400	25	1,500	3,000
Storage / Lab Prep		B122,B123,B124,B12	25 4	356	356			_1		350			350	350
Subtotal (Science)			+		2,774		30	4—			2,750	\vdash	\rightarrow	3,350
Special Education			+	 				₩				\vdash		
Elem. Classroom		A135,C179	2	1,827	1,827	23	46	2	12	450	900	15	600	1,200
Elem. Classroom/Lab		A117	1	896	896	13	13	1	12	800	800	16	1,200	1,200
HS Classroom		C234	1		886	22	22		12			15	600	600
HS Classroom / Lab		C233	1	891	891	13			12	800			1,200	1,200
Subtotal (Special Education)			1		4,500		95	4_			2,950			4,200
Technical Education			+	 	\longrightarrow			╄				\vdash		
Tech Lab	Wood Shop	A183	1	2,126	2,126	18	18	1	15	1,800	1,800	20	2,400	2,400
	Ag	A186	1	890	890	7	7		15				3,000	3,000
CADD / Graphics	9	A340	1		1,073	11	11		15				2,000	2,000
	Welding	A133	1	997	997	12	12	2 1					1,400	1,400
		A187,B180,B183,C14		4 004				Γ.		450			050	
Storage / Support Space		0,C145	5	1,884	1,884	- 1		5		150		\vdash	250	1,25
Subtotal (Technical Education	1)		+-		6,970		48	4—			7,150	\vdash	\rightarrow	10,05
Business / Marketing Education	on.		+	 				₽	\vdash			\vdash	\rightarrow	
Classroom	JII	A310	1	1,074	1,074	16	16	1	15	1,000	1,000	25	2,000	2,00
		7.0.10	+ 1	1,011	1,074		16		10	1,000	2,200		2,000	3,40
	g Education)													
Subtotal (Business / Marketing														
Subtotal (Business / Marketing Family and Consumer Science								E						
Subtotal (Business / Marketing	e	C220	1	1,552	1,552 1,552	26	26 26		15	900	900	15	1,000	1,000 2,500

Page AI www.is-grp.com



Space Needs Assessment Summary

Multipupose 8176 1 1,040 1,040 12 13 1 5 1,000 1,200 20 1,500					1					7					
Starting Clay	Art														Ť
Storage	Multipurpose		B178	1	1,040	1,040	13	13	1	15	1,200	1,200	20	1,500	1,500
Substitution Subs	Kiln / Glazing / Clay		B176	1	116				1		400	400		600	600
Subtotal (Art)	Storage			1	51				2		350			350	
Music Bind Bird Bird Bird Bird Bird Bird Bird Bir	Dark Room		B177	1	168	168			1		400	400		800	
Seneral Nusic	Subtotal (Art)					1,259		13				6,520			7,920
Seneral Nusic															
Starter Music 1 1,102 1,102 15 15 1 20 1,500 1,500 1,200 1,200 Instrument Storage	Music		The state of the s												
Seneral Music Instrument	Band		B140	_ 1	1,512	1,512	15	15	1						
Instrument Storage 4 SF per instrument				1	1,102	1,102	15	15	1	20					
Uniform Storage 3 F per uniform	General Music								1						
Choral Robe Storage									1						
Practice 2 off choral, B137, B1 4 326 326 4 6 6 240 80 320 370 prediction															
	Choral Robe Storage	2.5 SF per robe							1						
Ensemble	Practice		2 off choral, B137, B13	4	326	326									
Electronic Keyboarding Lab Recording Cortion Room Masic Library Mark L															
Recording Control Room									1						
Music Library									_						
Office Lesson Studio Choral, B139 2 223 223 225 2 100 200 200 400										_					
Instrument Repair															
Performance Equip Storage			choral, B139	2	223	223									
Subtotal (Music) Physical Education / Athletics Symmasium elem, and HS 2 16,453 16,453 14 27 1 20 12,000 12,000 25 14,000 14,000 14,000 Phys Ed Locker Rooms including shower and towel rooms 4 2,563 2,563 2 1,500 3,000 3,000 3,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 4,000 6,000 3,000 6,000 3,000 6,000 3,000 6,000 3,000 4,00															
Physical Education / Athletics									1		200			300	
Symbol S	Subtotal (Music)			1		3,163		30				7,815			10,795
Symbol S															
Weight / Fitness															
Phys Ed Locker Rooms Including shower and towel rooms 4 2,563 2,563 2 1,500 3,000 3,000 6,000 6,00			elem, and HS					27	2.						
Caneral Storage							: 9	9					40		
Laundry C11															
Athletic Offices n locker rooms 2 240 240 0 0 0 0 Subtotal (Physical Education / Athletics) 24,602 37,200 54,900 Subtotal - School Learning Spaces (NSF) 87,545 37 103,670 138,870 Subtotal - School Learning Spaces (NSF) 87,545 37 103,670 138,870 Subtotal - School Learning Spaces (NSF) 87,545 37 103,670 138,870 Subtotal - School Learning Spaces (NSF) 103,670 144 2,100 16 2,400 Storage		Mens LR, Womens LR, Elem Gym, HS C					1	T .					\Box		
Subtotal (Physical Education / Athletics) Subtotal - School Learning Spaces (NSF) 1 2,000 103,670 138,870 103,670 138,870 103,670 14 2,100 16 2,400 10 2,000 10 3,000 1			C11						- 1		200	200	-	200	200
Subtotal - School Learning Spaces (NSF) Food Service Commons 15 SF per student, per session (4) 1 2535 1 37 103,670 138,870 103,670 138,870 103,67				2	240				_			0			0
Food Service Commons 15 SF per student, per session (4) 1 2535 2,535 169 676 150 14 2,100 16 2,400 Kitchen - Full Preparation 1 756 756 1 1 2,000 2,000 3,000 3,000 Storage 1 366 366 1 350 350 450 450 Cooler 1 77 77 1 1 300 300 300 400 400 Freezer 1 95 95 1 1 350 350 450 450 Dishwasher 1 132 132 1 1 400 400 600 600 Dishwasher 1 1 63 63 1 1 150 150 150 150 Table Storage 1 291 291 1 600 800 1,000 1,000 Subtotal (Food Service) 4,315	Subtotal (Physical Education	/ Athletics)				24,602			_			37,200			54,900
Food Service Commons 15 SF per student, per session (4) 1 2535 2,535 169 676 150 14 2,100 16 2,400 Kitchen - Full Preparation 1 756 756 1 1 2,000 2,000 3,000 3,000 Storage 1 366 366 1 350 350 450 450 Cooler 1 77 77 1 1 300 300 300 400 400 Freezer 1 95 95 1 1 350 350 450 450 Dishwasher 1 132 132 1 1 400 400 600 600 Dishwasher 1 1 63 63 1 1 150 150 150 150 Table Storage 1 291 291 1 600 800 1,000 1,000 Subtotal (Food Service) 4,315						1			_						100.000
Commons 15 SF per student, per session (4) 1 2535 2,535 169 676 150 14 2,100 16 2,400 Kitchen - Full Preparation 1 756 756 1 2,000 2,000 3,000 3,000 3,000 3,000 3,000 3,000 3,000 450 <	Subtotal - School Learning Sp	paces (NSF)				87,545		37				103,670			138,870
Kitchen - Full Preparation 1 756 756 1 2,000 2,000 3,000 3,000 3,000 Storage 1 366 366 1 350 350 450 450 Cooler 1 77 77 1 300 300 400 400 400 Freezer 1 95 95 1 3350 350 450 450 450 Dishwasher 1 132 132 1 400 400 600 600 600 G00 G00 1 600 1	Food Service														
Storage	Commons	15 SF per student, per session (4)		1			169	676	150						
Cooler 1 77 77 1 300 300 400 400 Freezer 1 95 95 1 350 350 450 450 Dishwasher 1 132 132 1 400 400 600 600 Office 1 63 63 1 150 150 150 Table Storage 1 291 291 1 800 800 1,000 1,000 Subtotal (Food Service) 4,315 9,650 12,800	Kitchen - Full Preparation			1	756	756		j.	1		2,000	2,000		3,000	3,000
Freezer 1 1 95 95 1 1 350 350 450 450 150 150 150 150 150 150 150 150 150 1	Storage			- 1				1.	1						
Dishwasher 1 132 132 1 400 400 600 600 Office 1 63 63 1 150 150 150 150 Table Storage 1 291 291 1 800 800 1,000 1,000 Subtotal (Food Service) 4,315 9,650 12,800	Cooler			1		77			- 1						
Office 1 63 63 1 150	Freezer			1					_ 1						
Table Storage 1 291 291 1 800 800 1,000 1,000 Subtotal (Food Service) 4,315 9,650 12,800	Dishwasher			1	132	132			1						
Subtotal (Food Service) 4,315 9,650 12,800	Office			1					1						
	Table Storage			1	291				1		800			1,000	
Auditorium 1 8420 8,420 9	Subtotal (Food Service)					4,315						9,650			12,800
Auditorium 1 8420 8,420															
	Auditorium			1	8420	8,420									

Page A2 www.is-grp.com

EXPERTISE

Architecture

Engineering

Environmenta

Planning

WORK

Agriculture

Civic + Culture

Commercia

Education

Energy

Government

Healthcare

Housing

Industrial

Mining

Public Work:

Sports + Recreation



Mankato, MN Minneapolis/St. Paul, MN Faribault, MN Algona, IA Des Moines, IA Storm Lake, IA Green Bay, WI La Crosse, WI







