



# Elgin High School

1200 Maroon Drive, Elgin, IL 60120

BUILDING SUMMARY			
Gross SF	403,688	Number of Levels	2
Year Built	1968	Number of Additions	1



LEVEL 1

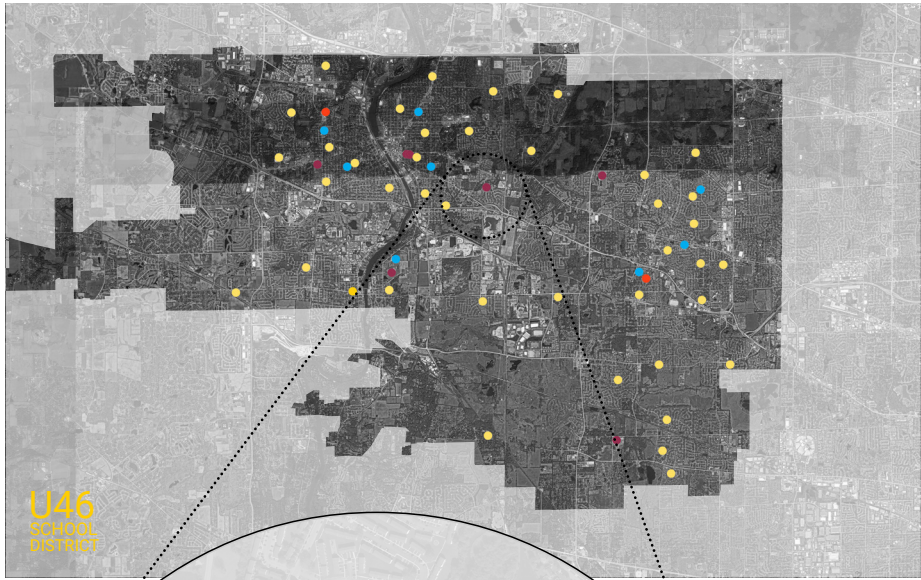
Phase 1 Snapshot



FACILITY LOCATION

TRAVEL

PLAN KEY



U46  
SCHOOL  
DISTRICT



**Current**  
Acreage:  
**70.02**  
ACRES

**Guideline**  
Acreage:  
**46.01**  
ACRES

\* Guideline Acreage  
recommended by  
State of Illinois = 5  
acres plus 1 acre per  
every 100 students

1968  
2003

**5-7 MIN** Furthest approximate travel time  
from one location to another for an  
average **High School Student**.

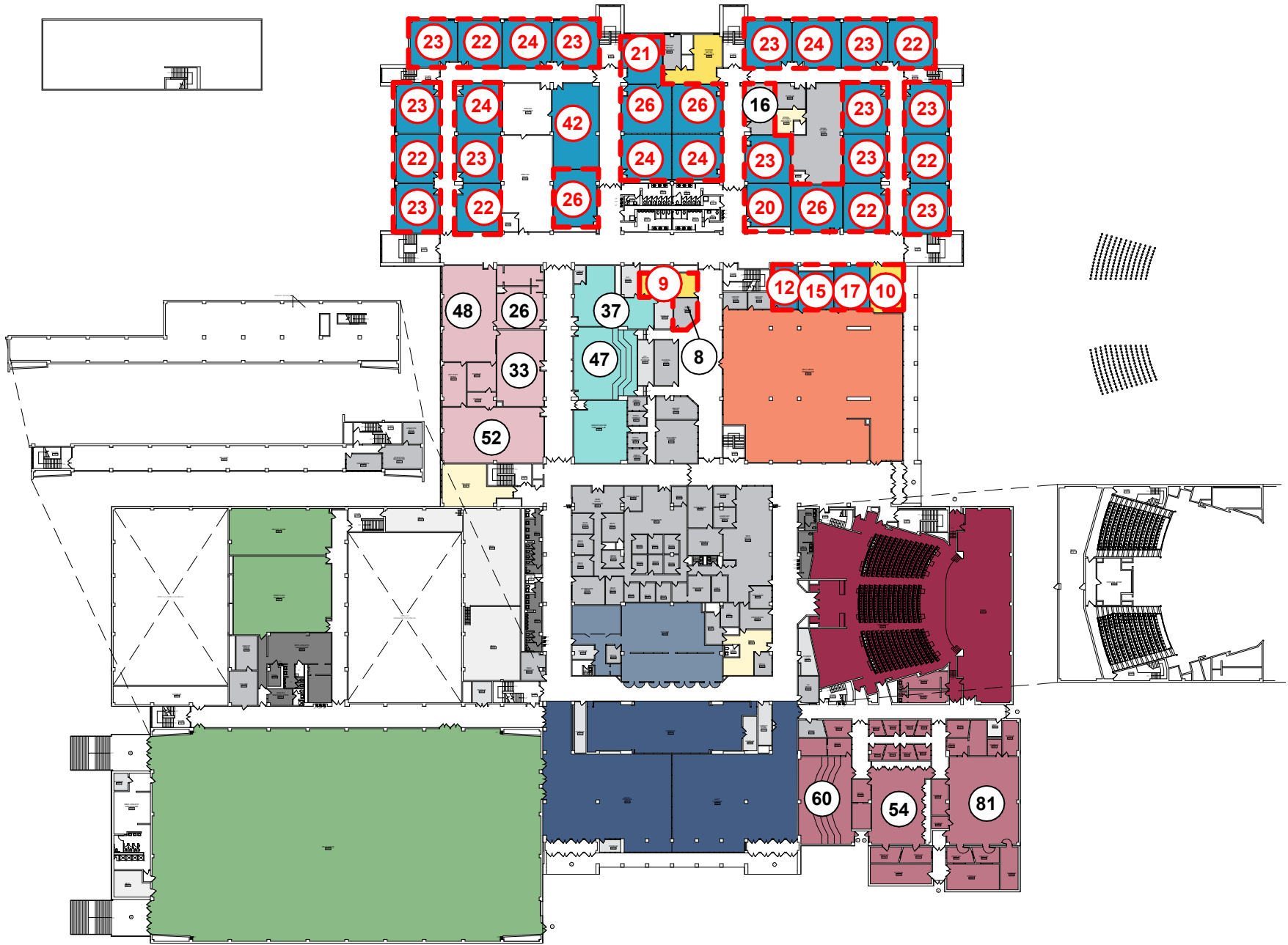
- Administration
- Building Support
- Cafe Support
- Commons / Cafeteria
- Core Classroom
- Elective Classroom
- Gym / Fitness
- Kindergarten / ECC
- Learning Center
- Media Lab
- Performance Venue
- Performing Arts Classroom
- Resources
- Science Lab
- Special Education
- Stem / Hands-On Learning
- Restrooms
- Student Support
- Visual Arts
- Travel Path
- Under-sized space
- Room Capacity based on ISBE Guidelines
- Room Capacity based on ISBE Guidelines (not included in Effective Capacity)

January 27, 2021



# Elgin High School

1200 Maroon Drive, Elgin, IL 60120



LEVEL 2



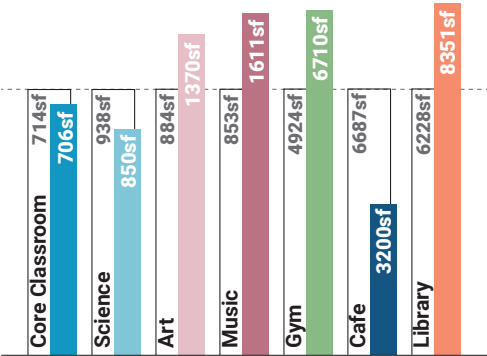
ENROLLMENT METRICS

Occupancy**	2955
Effective Capacity	TBD
Total Enrollment	2601

**Occupancy:** the maximum number of people that can be housed in a space in accordance with the building/ fire code  
**\*\*NOTE:** Occupancy is NOT the recommended number of students for a space, it is the maximum allowed by code.

**Effective Capacity:** the amount of students a school can effectively support based on the District's current practices and future vision for teaching and learning. This is calculated based on ISBE's square footage per student guideline. Calculated based on core classrooms, science labs and Special Education spaces.  
**Enrollment:** number of students that attended the facility in 2019-2020.

AREA COMPARISON



\* This comparison notes the difference between Elgin High School area per student in comparison to the current National average as noted in the 2015 School Construction Report. The master planning process will produce outcomes pertinent to the District as a whole. This is just one metric to compare space.

EHS Average (all colored bars) U-46 Average

155 square feet per student : 148 square feet per student  
Elgin High School 2015 National Low Quartile Number\*

PLAN KEY

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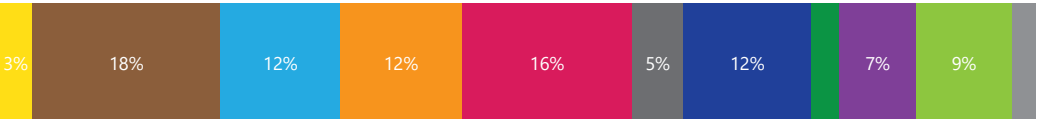


<b>Spatial Educational Adequacy(25%)</b>	<b>C</b>	<b>Facility Condition(35%)</b>	<b>C</b>
(Data collected through Staff Survey)	<b>6.3/10</b>	FCI	.14
Physical Features	6.6/10	<b>Water Usage(5%)</b>	<b>C</b>
Environment Supports Variety	7.5/10	Gallons/SF	12.0
Visual Stimulation	5.7/10	<b>Energy Usage(10%)</b>	<b>F*</b>
Future Readiness	5.2/10	<b>Total EUI</b>	<b>96.0kBTU/SF/yr</b>
<b>Building Allocation(25%)</b>	<b>A</b>	Electric	25.3kBTU/SF/yr
Gross SF/student	155	Gas	70.7kBTU/SF/yr
Site Acreage/Guideline	152%	<b>2020 EUI</b>	<b>56.2kBTU/SF/yr</b>
Mobiles in Use/Basement Used	No/No		

AGGREGATED FACILITY GRADE B-

Educational Adequacy grades were determined by a survey issued to staff. Square Foot/Student grades were determined by building area and enrollment. Facility grades are determined building assessments. Water grades were determined by comparing utility data to the Commercial Buildings Energy Consumption Survey. Energy grades were deteremined by comparing utility data to the US Dept of Energy's Building Performance Database. Percent in parenthesis indicates weight of category in aggregate facility grade.  
\* Energy Usage Grade is based on 2019 EUI data, not 2020 EUI data. The decrease in EUI from 2019 to 2020 is a result of both major HVAC equipment upgrades as well as operational changes due to COVID-19.

Activity mapping is based on survey data (Week in the Life) collected by teachers throughout the district over the course of one week. The teachers provided the learning activity and amount of time spent in that activity. Data was aggregated for the school and is represented by the average percent of time spent in the activity.



- Creative Brainstorming

Direct Instruction

Focused Study

Group Discussion
- Hands-On Learning

Housekeeping

Physical Activities

Practicing Autonomy
- Presenting or Performing

Reserach & Reflection

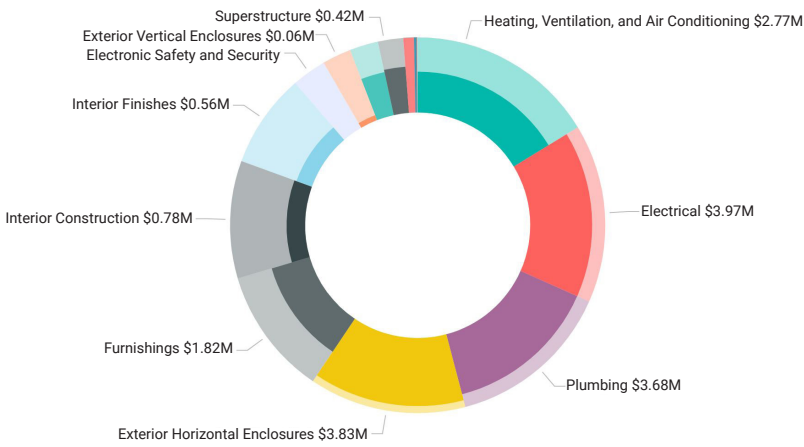
Transition

What’s a Listening Tour?

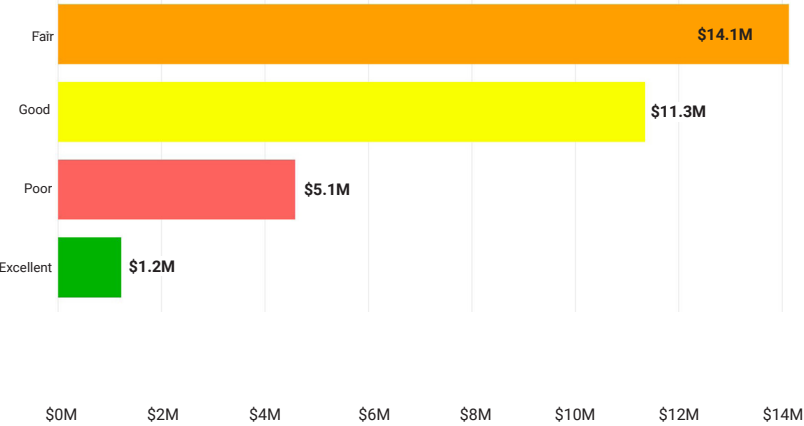
Staff surveys (Listening Tours) were sent to each school where faculty gave input about the strengths and weaknesses of the building. The following comments highlight common themes and concerns.

Listening Tour Comments From Staff

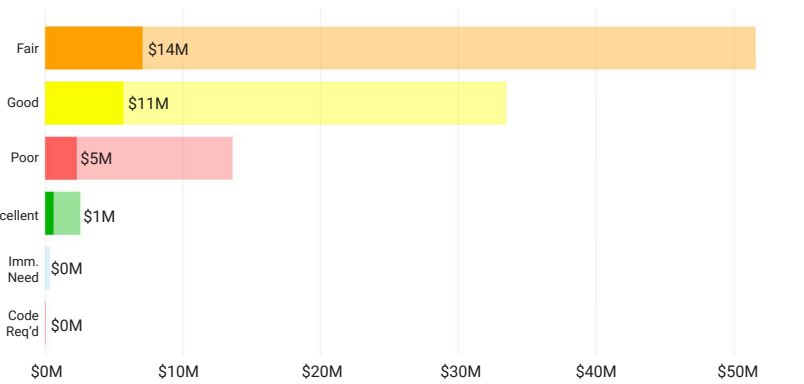
- Staff values the flexibility of the library space so that they can fit large and small groups in multiple places throughout the library.
- The classrooms are generally a good size if class sizes are managed, but are too small when there are too many students. We do not have proper equipment that is necessary for a student’s learning process.
- The arrangement of the student furniture, style and functionality of desks for medium to large students places limitations on the student learning process.
- Teacher and faculty office spaces are adequate for collaboration and planning. Having private space for a parent phone call is wonderful.
- The science labs need drastic updating; they need proper ventilation or windows.



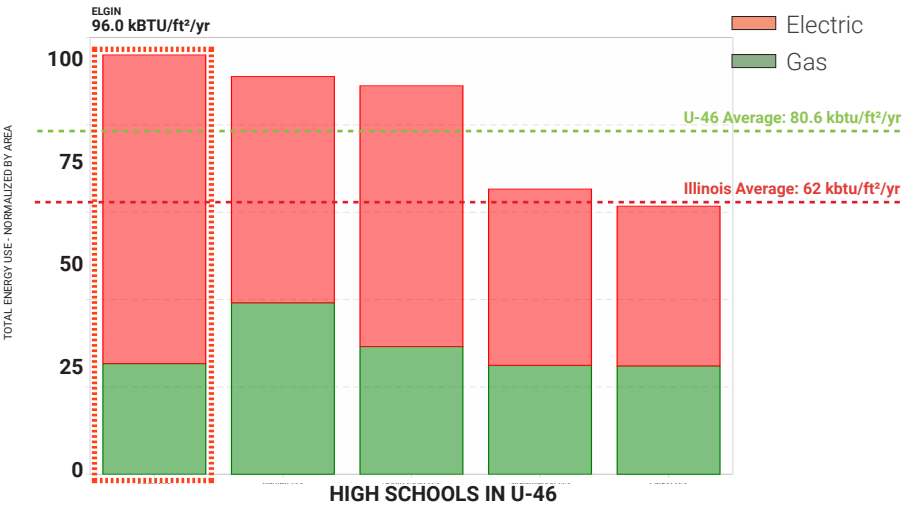
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) of items assessed by building system. Highlighted items indicate those items in immediate need, code requirement, poor and fair condition.



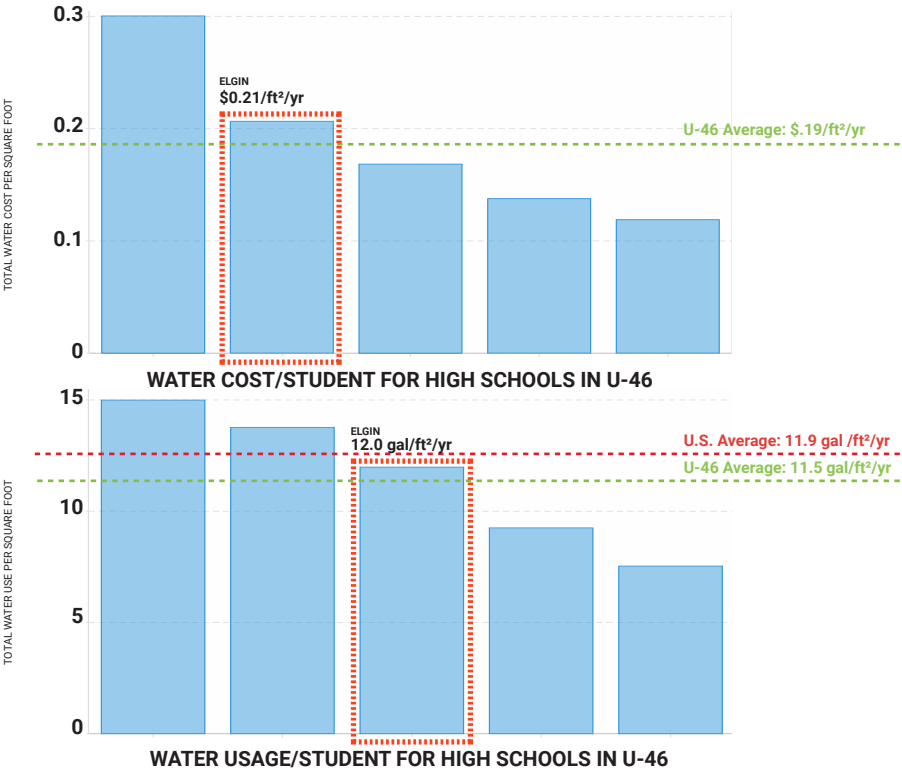
This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items.



This chart indicates the approximate cost of deferred and anticipated maintenance (in dollars) based on condition of assessed items in relation to the entire cohort of buildings.



Energy Use Intensity (EUI) is a key metric that expresses a building’s energy use as a function of its size. Generally, a low EUI signifies good energy performance



Water usage is a key metric that expresses a school’s water use and total cost of water in comparison to the other high schools in the district.

How is this information collected?

The goal of the DLR Group integrated design team is to **collect multiple qualitative and quantitative data points** around the same set of items – for example energy use or learning behavior – **in order to form a holistic picture**. The team collects these data points through the use of utility analysis, expert walkthroughs, focus groups, surveys, and ethnographic observation techniques. The results are validated by cross-checking data points, such as a survey answer and a spot measurement, that should relate to one another.