Cold Spring Harbor Schools
Smart Schools Investment Plan
January 2016

Background: The SMART SCHOOLS BOND ACT OF 2014 was passed in the 2014-15 Enacted Budget and approved by the voters in a statewide referendum held during the 2014 General Election on Tuesday, November 4, 2014. This bond act authorized the issuance of $2 billion of general obligation bonds to finance improved educational technology and infrastructure to improve learning and opportunity for students throughout the State. The entire text of the Smart Schools Bond Act Implementation Guidance can be found at http://www.p12.nysed.gov/mgtserv/smart_schools/docs/Smart_Schools_Bond_Act_Guidance_04.27.15_Final.pdf

Cold Spring Harbor's portion of this funding is $306,709

This document provides the district's recommendation for use of these funds, as well as a top-level implementation plan.

Recommendation: Utilize the funds to upgrade our wireless and wired networks

Rationale: Wireless network: The goal when installing our current wireless network (in 2012) was to provide Wi-Fi **coverage** district-wide, meaning that mobile computing devices such as laptops, Chromebooks and iPads could be used online anywhere in the district. As we expand the number of these devices in the classrooms, we are finding that we need **density** as well. More access points are required to support the number of simultaneous connections currently in use (and planned for the near future). Additionally, a wireless network that can accommodate computer-based testing of large numbers of students simultaneously will be required as these types of tests become required by the State Education Department (expected as early as the 2016-2017 school year). The wireless network coverage in its current state, and as it will appear after the proposed expansion, is shown below. Rather than purchase all new access points, we plan to redeploy existing access points, where appropriate, to minimize cost and maximize density.

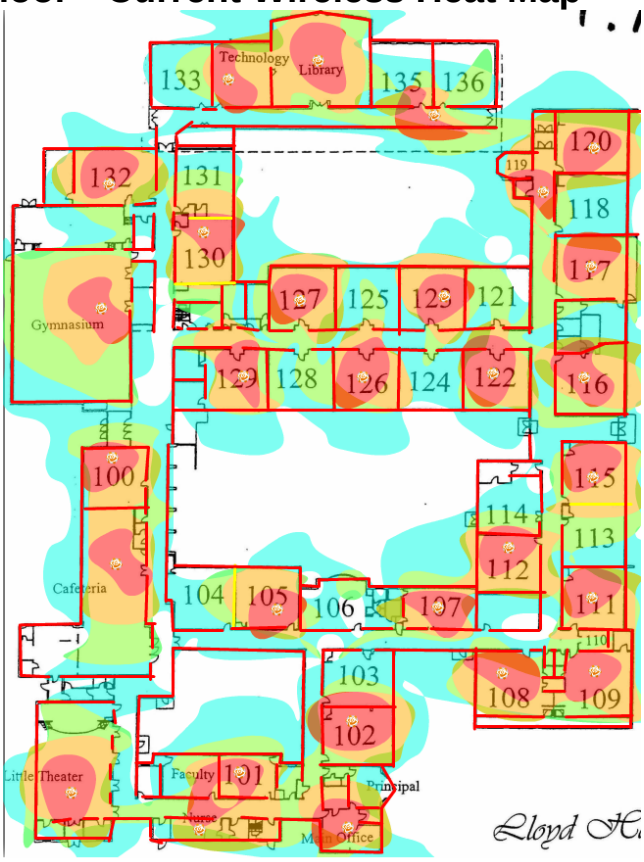
Wired network: To accommodate the expansion of our wireless network, we will require additional wired switching equipment. Each wireless access point must tie into our wired network and we simply do not have the port density required. Additionally, our existing wired network is due for replacement/refresh, as the majority of these devices were installed as early as 2010.

Project Elements: Wireless access points (36), controllers (2), network switches (48), installation, project management.

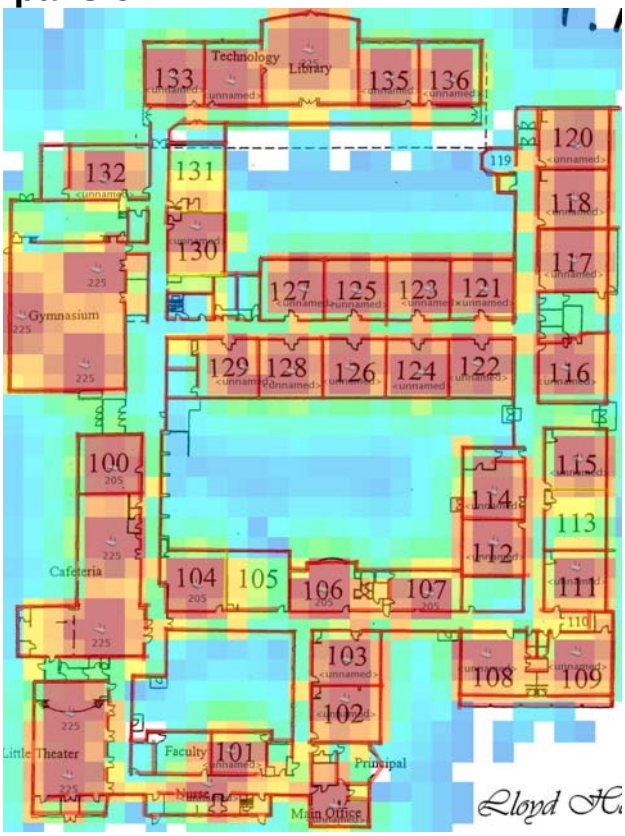
Schedule: Actual dates are to be determined as this project requires pre-approval by the New York State Education Department prior to the start of work.

Cost: The expected total cost of the project is $480,100, funded by Smart Schools ($306,709), Universal Service Schools and Library Aid ($59,631), and the general budget for the 2016-2017 school year ($113,760).

Lloyd Harbor School – Current Wireless Heat Map

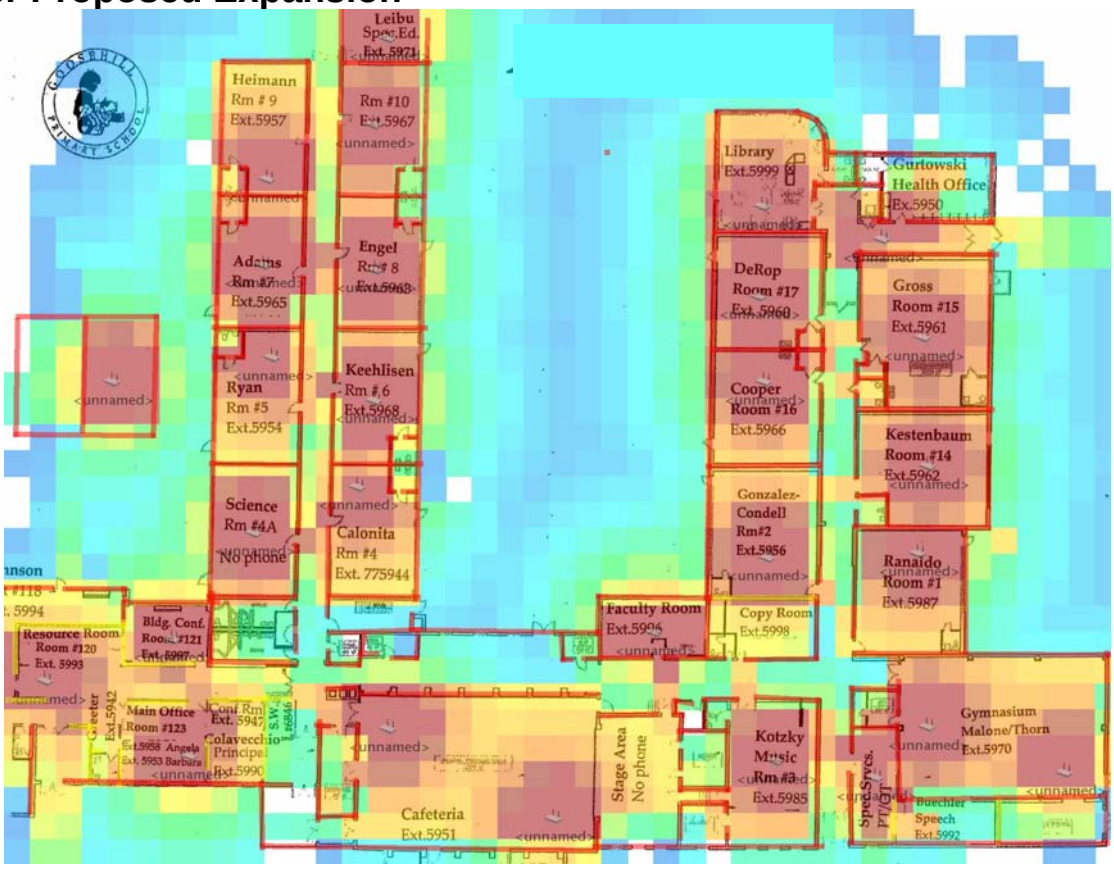


After Proposed Expansion

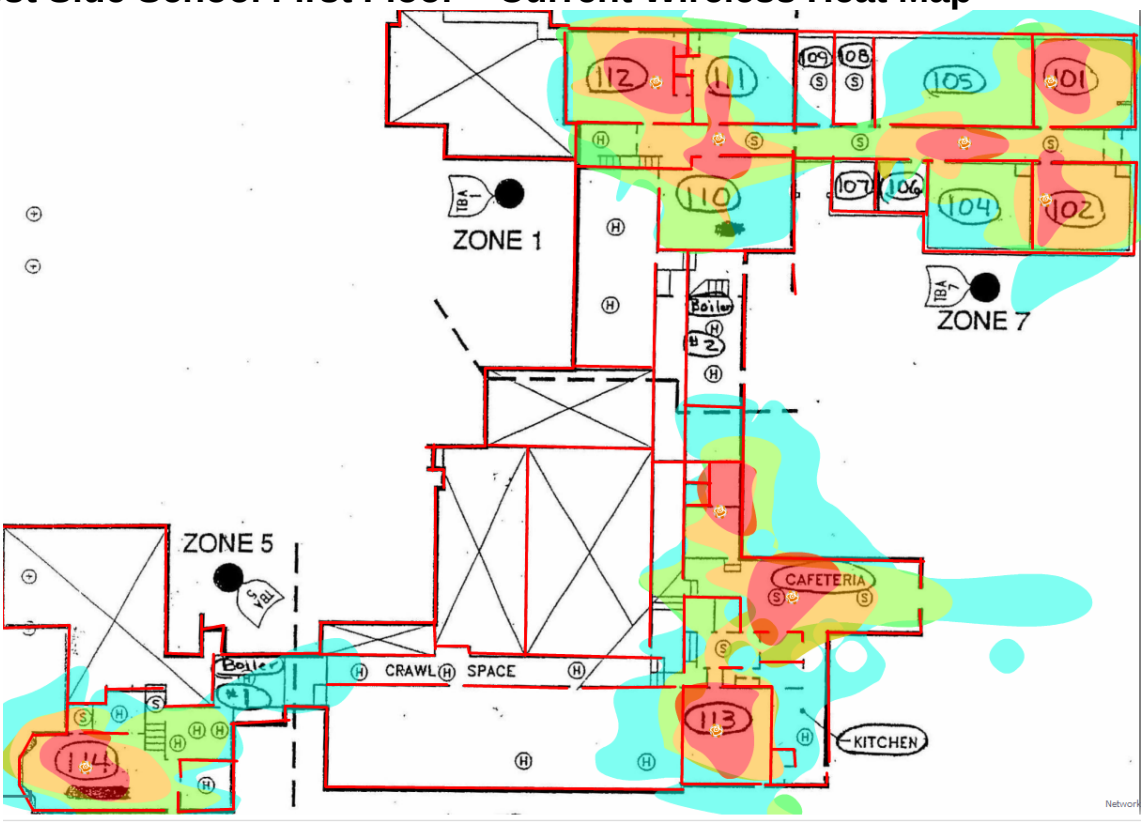


Goosehill Primary School – Current Wireless Heat Map

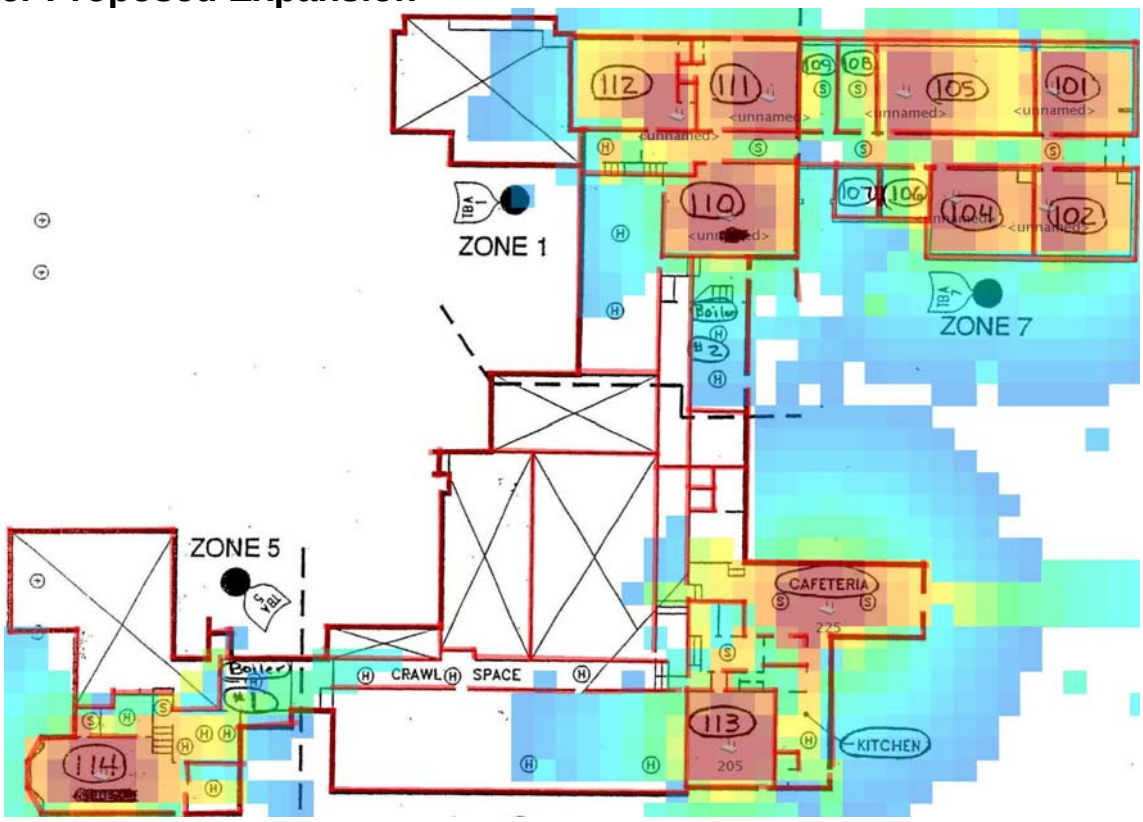
After Proposed Expansion



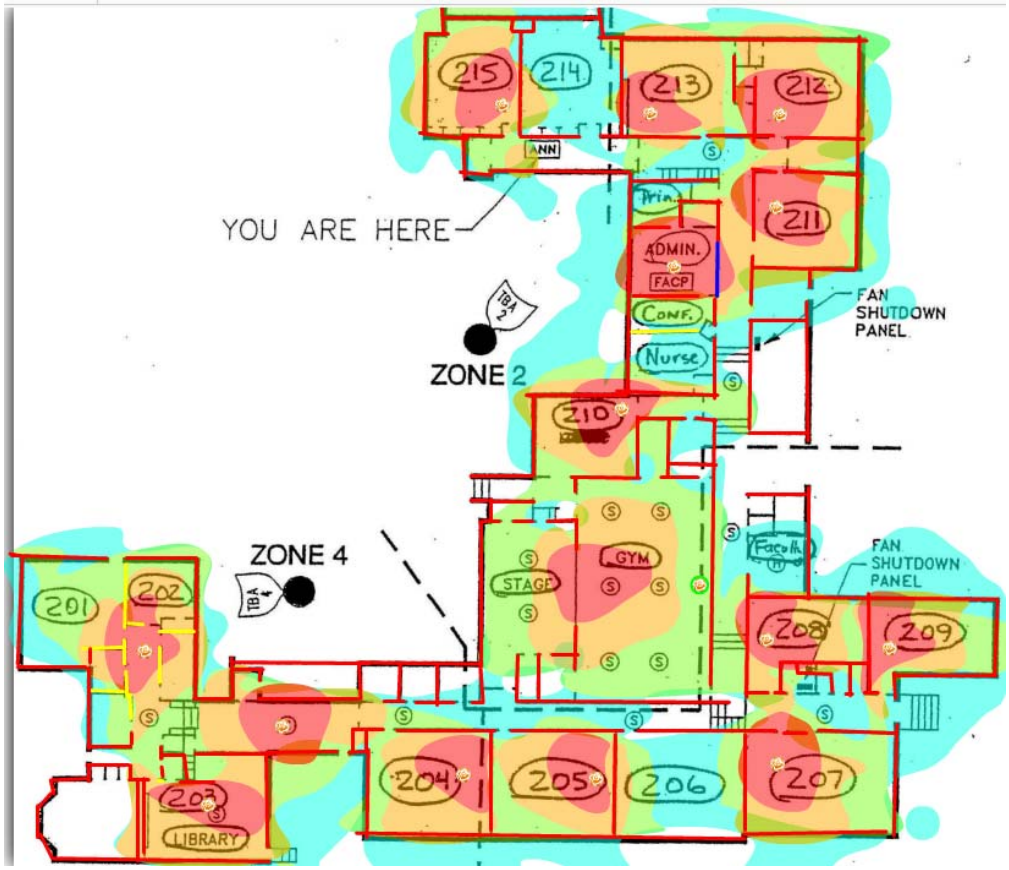
West Side School First Floor – Current Wireless Heat Map



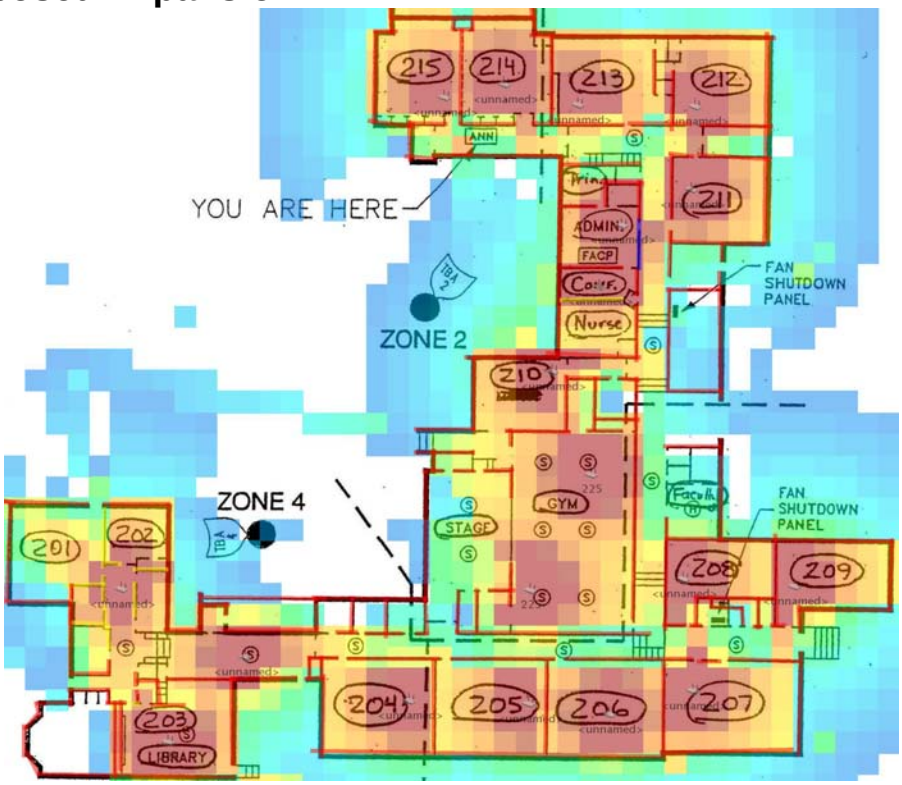
After Proposed Expansion



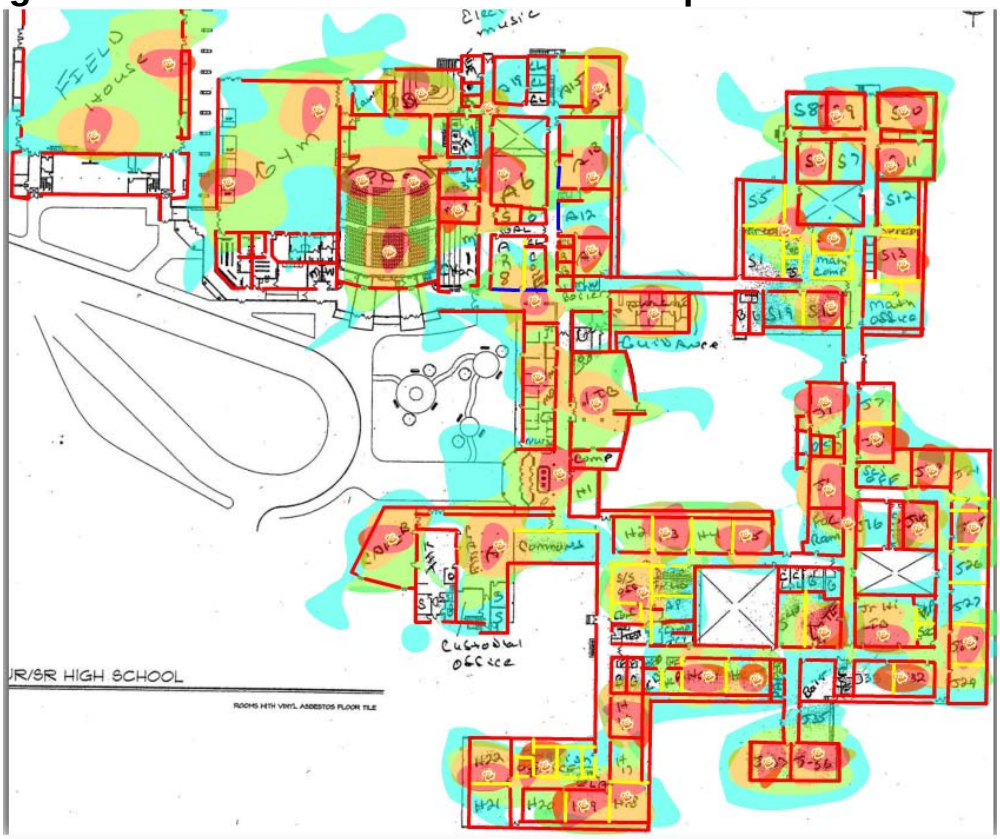
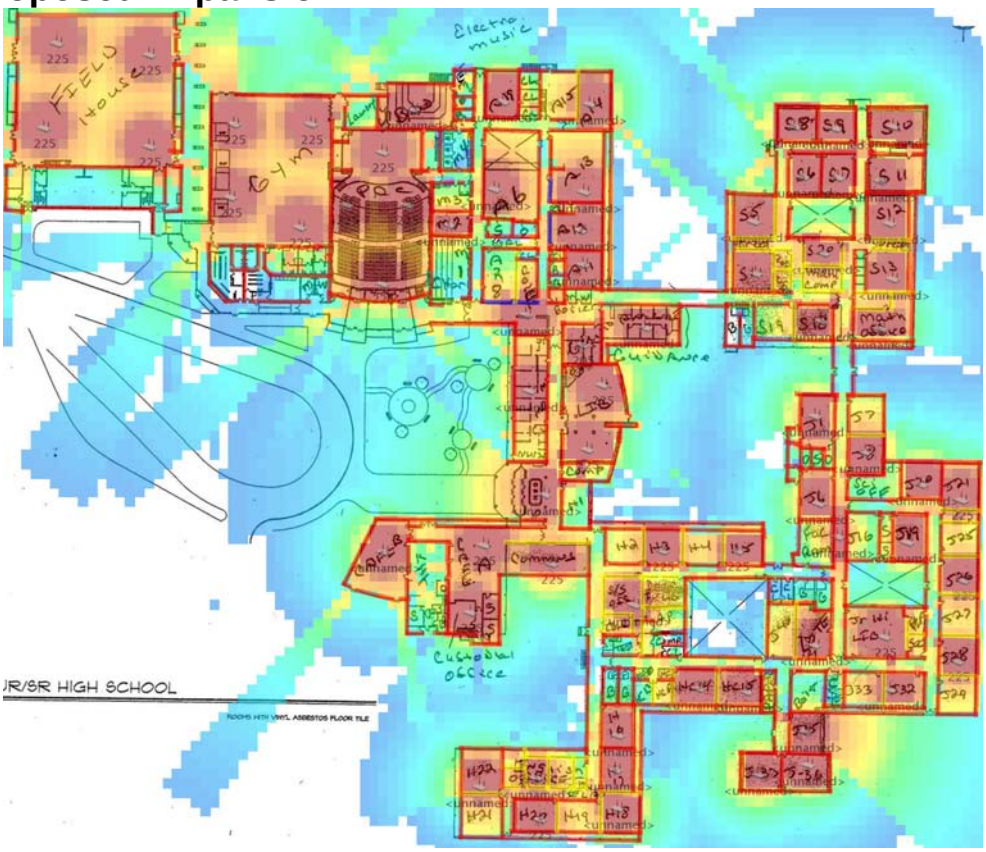
West Side School Second Floor – Current Wireless Heat Map



After Proposed Expansion



Jr/Sr High School – Current Wireless Heat Map



After Proposed Expansion