

GLENBROOK HIGH SCHOOLS
District Business Office

TO: Dr. Mike Riggle

FROM: Kimberly L. Ptak

DATE: October 7, 2013

RE: 2014/2015 RECOMMENDED PROJECTS

Recommendation

It is recommended that the Board of Education approve the following projects for the 2014/15 budget year. The costs listed are estimates. Projects will be bid and actual costs will be brought to the Board for approval.

1. GBS enrollment driven projects - \$251,892
2. GBS small building projects - \$190,000

Background

Every fall, administration brings forward a list of recommended facility projects to be completed the following year. At this time, the Board is only being asked to approve the projects for purposes of creating design specifications. Once designed, projects will go out to bid and actual costs will be brought to the Board for final approval.

Further discussion will take place on the GBS parking lot project as well as the renovation work at 3801 W. Lake Avenue. These projects will come back to the board October 28, 2013.

GBS Enrollment Driven Projects (\$251,892)

Attached is a list of projects at Glenbrook South which are being recommended due to increasing enrollment. The recommended projects include splitting computer labs into two classrooms and converting four peer group rooms into eight classrooms to better accommodate the increased enrollment and small class size.

GBS Small Building Projects (\$190,000)

Gary Freund will be at the meeting to review his recommended summer 2014 building project which involves creating two high-end computer driven classrooms with a shared production lab to support a new program, Project Lead the Way.

**FACILITY CHANGES DUE TO 2980 STUDENTS
GLENBROOK SOUTH
2013 - 2014**

Transition to the A/B Block Schedule will increase the general capacity of Glenbrook South High School. In general, it will also increase the number of course selections by students and the need for general classroom space for these course selections and for areas to house Peer Group. As enrollment increases, providing a student-driven schedule, which has been a staple in the Glenbrooks, will be challenged in the areas of science, automotives and foods. A student-driven schedule in automotives and foods will not likely be possible due to the fact that the foods lab is currently used 15/16 sections and the auto lab is used 7/8 sections. Students will be turned away in these areas at 2980 students.

Handling the increase in enrollment at Glenbrook South High School will require the conversion of computer labs into classrooms.

SOCIAL STUDIES COMPUTER LAB

\$35,160

Convert the social studies computer lab into 2 classrooms. This replaces the two classrooms used for the PLTW expansion (building project).

1. WRITING LAB

\$52,920

Convert writing computer lab into 2 classrooms using an operable partition for flexibly.

2. WRITING LAB ANNEX

\$22,980

Convert writing lab annex into a classroom.

3. PEER GROUP

\$140,832

Convert Rooms 151, 152, 190, 191 into eight small rooms for peer group. This modification ultimately serves these needs more efficiently, using four classrooms instead of eight.

Total

\$251,892

SPECIAL BUILDING PROJECTS 2014 - 2015

GLENBROOK SOUTH

Project Lead the Way (PLTW) Facility

\$190,000

PLTW was introduced at Glenbrook South for the 2013-2014 school year. Student response has exceeded expectations with 250 students registered for the first two courses offered. Combining these requests with existing CAD enrollment requires 4 classes to be taught outside the current CAD Lab during the 2013-2014 school year. PLTW will continue to expand as additional courses are implemented over the next three years, which drives the need to expand our PLTW facility. The courses housed in the engineering classrooms for PLTW and CAD include:

1. Introduction to Engineering Design (IED)
 - Designed for 9th or 10th grade students, the major focus of IED is the design process and its application. Through hands-on projects, students apply engineering standards and document their work. Students use industry standard 3D modeling software to help them design solutions to solve proposed problems, document their work using an engineer's notebook, and communicate solutions to peers and members of the professional community.
2. Principles of Engineering (POE)
 - Designed for 10th or 11th grade students, this survey course exposes students to major concepts they'll encounter in a post-secondary engineering course of study. Topics include mechanics, energy, statics, materials, and kinematics. They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges as they document their work and communicate solutions.
3. Architecture
4. CAD 1 and CAD 2
5. Future PLTW courses (beginning in 2014 - 2015) will be selected from: Digital Electronics, Civil Engineering and Architecture, and Engineering Design & Development.

This project incorporates two general classrooms with the existing CAD Lab to create two high-end computer driven classrooms with a shared production lab. This efficient model has been designed with the input of our experienced PLTW teachers. See attached drawing.