MEMORANDUM

To: Core Planning Group

From: Kaitlin Schalow | KS

Date: May 4, 2016

Comm. No: 152235

Subject: Independent School District #879
Delano Secondary School Additions and Renovations
April 27, 2016 **STEM/Tech Ed/PLTW** User Group Meeting Minutes

Attendees:

Matt Nohner, Delano Public Schools	matt.nohner@delanoschools.org
Stephen Schaack, Delano Public Schools	stephen.schaack@delanoschools.org
Jeff Olson, Delano Public Schools	jeff.olson@delanoschools.org
Tory Spanier, Delano Public Schools	tory.spanier@delanoschools.org
Joe Finn, Delano Public Schools	joe.finn@delanoschools.org
Steve Heil, Delano Public Schools	steve.heil@delanoschools.org
Lynae Schoen, Wold Architects and Engineers	lschoen@woldae.com
Kaitlin Schalow, Wold Architects and Engineers	kschalow@woldae.com

The Group met to discuss the preliminary User Group drawing. The drawings presented in the meeting are for diagrammatic purposes only, intended to facilitate discussion and visualize spatial adjacencies. The following is a brief summary of topics discussed.

Discussion Topics:

A. Current teaching spaces/lessons:
   1. Metal Shop:
      a. Welding/Metals (three sections).
      b. Foundry.
   2. PLTW:
      a. Intro to Engineering Design (Classroom-based) – one section per day.
      b. EDD: Engineering Design Development (Classroom-based)- one section.
   3. Wood Shop:
      a. Intro to Woods.
      b. Basic Furniture.
      c. Independent Study (Advanced).
   4. STEM Classroom:
      a. PLTW-All day use.
      b. May drift to Wood shop space for assembly.

Wold

c. Classes:
    1. Green Architecture.
    2. Design and Modeling.
    3. Models are built in wood shop.
d. 3D printer/prototyping.
e. 80% computer based, 20% project based.
f. Single screen computers currently, but dual screens should be planned for.
g. Future of PLTW: Robotics/Computer Science.

5. Computer Lab/Business Lab:
    a. Accounting.
    b. Personal Finance.
    c. Web Design.
    d. Microsoft I and II.
    e. Future Curriculum: Intro to Computer Science, Computer Science and Engineering.
    f. Need a Computer Lab for 32 students all day, every day.
    g. Teacher station should be located so that there is a visual to the students' screens.
6. Engineering:
    a. Principles of Engineering – one class per year, housed in Physics.
7. Digital Electronics:
    a. Housed currently out of Math Classroom.
    b. Breadboarding.
    c. Computers- currently using laptops.
    d. Sautering.
    e. Workbench space.
8. Robotics Team:
    a. 15-20 students and growing.
    b. Competes and keep robots from past years.

B. Spaces that are lacking in Suite:
    1. Assembly space for PLTW.
    2. Power-especially for Digital Electronics. There should be one quad outlet per student.
    3. Storage.
    4. Computers-hardwired with table space directly next to it.
    5. Connection from STEM labs to Wood Shop.
C. The Group discussed whether there was any crossover between the Robotics team use and Robotics class. There was concern over sharing of spaces and management of tools. It would be preferred if the Robotics team had their own equipment.
D. There was discussion from the Group over the location of the second STEM classroom. It would be ideal if both STEM Classrooms were directly connected.
E. The Group identified a crossover between PLTW, Digital Electronics, and Engineering workstation needs: a computer with sufficient work space (24"x48").
    1. PLTW has a higher collaborative need.

F. The Group liked the layout of the STEM lab at Shakopee High School for the PLTW computer based classes.
G. Storage:
    1. Lockable cubby storage for Digital Electronics: Bread board, toolbox: each student needs a cubby, 2'x2'.
H. Existing PLTW lab: current perimeter computers sufficient, needs more collaborative space in the middle instead of individual desks.
I. Digital Electronics and Engineering would prefer a square shaped room vs. a long rectangular room.
J. Tech Ed Expansion Space:
    1. Computer Lab component for 30 students.
    2. Maker Space in the middle of the room.
K. The next User Group meeting will occur in approximately two to three weeks.

cc: Attendees

MH/ISD_879/152235/min/4.27.16 STEM