

reimagining education

joplin schools, hollis + miller architects, brainspaces
cefpj



goals for today

- Joplin's story
- before + after
- what would it look like if we really meant it?





joplin schools pre-tornado

- leader in technology
- community engagement
- completed 3 new middle schools
2 years prior

joplin skills for 21st century citizens



- collaboration
- communication
- problem solving
- technology literate
- flexibility/adaptability
- critical thinker
- interpersonal
- ethics/character
- community/global awareness
- lifelong learner

Developed at a Community meeting April 2011

Identified by the Joplin Strategic Planning Team April 2011

graduation day!

may 22, 2011

Joplin Schools

hollis

architects

millers



Security Camera Footage



safety first...

Spread the Word:

- ***Don't*** put students in school hallways for tornado protection
- Go to Joplinschools.org
JET-14 On Demand
Joplin Schools Security Footage

city damage assessment



Costliest Tornado in US History

- \$2.8 billion in damages
- 8,000 homes damaged or destroyed
- 400 businesses damaged or destroyed
- 18,000 vehicles damaged or destroyed
- 161 community members perished

school damage assessment

Our Greatest Loss

- **7 students and 1 staff member**
- 3,000 students lived in the path of the storm
- 4,200 students were without a school to attend
- 9 schools hit...6 a total loss
- Over \$100 million in damages
- Lost over 50% of our educational space
- 260 classrooms
- 1 administration facility damaged – communication system knocked out

history



The **Joplin** School District had 10 facilities hit by the **devastating tornado** --- **5 were destroyed.**



post-storm response

Established a Clear Goal

- August 17....84 days!
- Focus
- Rallying Point



summer 2011

- accounted for the well-being of 9,000 people
- learned about FEMA guidelines
- planned for temporary facilities for 3200 students
- repaired 4 schools that were damaged
- replaced furniture, equipment and supplies
- transformed HS education with a gift from the United Arab Emirates: no textbooks
- donations and support from around the world





AS PROMISED – SCHOOL STARTS ON TIME

“Adversity is like a strong wind. It tears away from us all but the things that cannot be torn, so that we see ourselves as we really are.”

-Arthur Golden

so now what?



a new view



when you are living with things you thought you could never
live without ...

**you can question things you
never
questioned before!**

our students are
different...

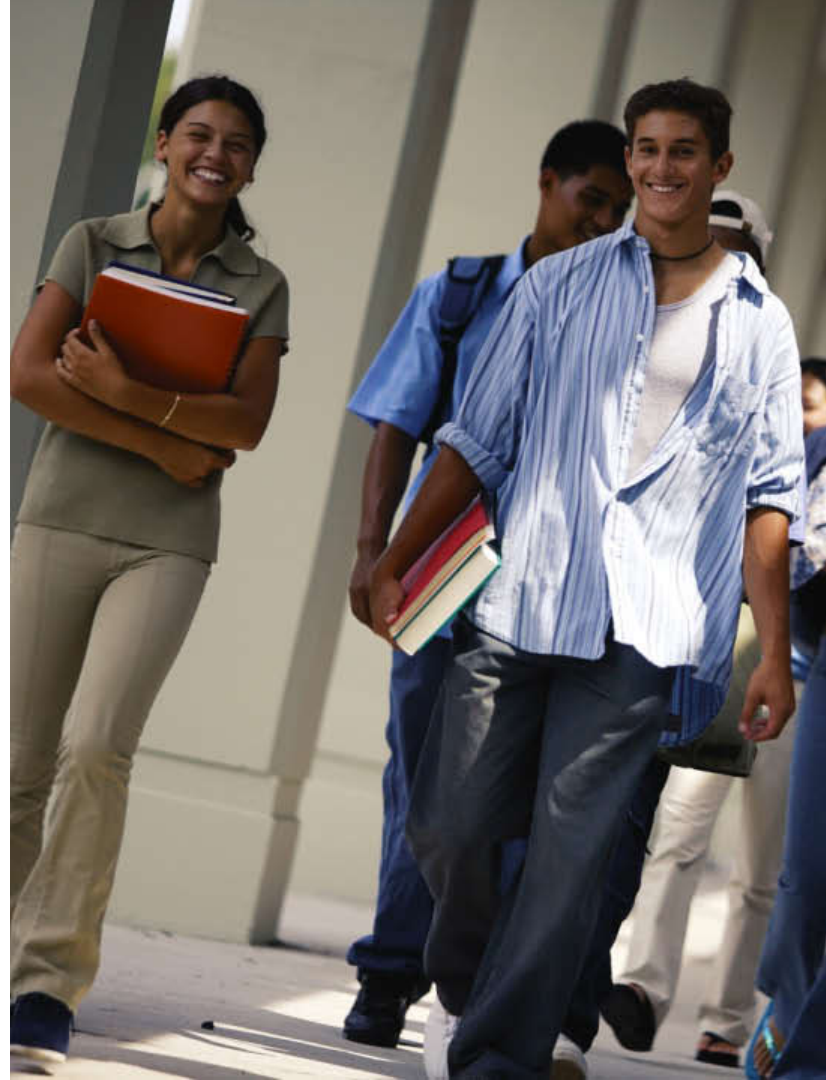
- Two-year-olds run iPads and iPhones
- What will they need in kindergarten? *Think pair share*
- How about when they graduate?



how much will change?

Today's kindergarteners will be retiring in
the year **2075**.

62% of the jobs that will be available to them
HAVE NOT EVEN BEEN INVENTED YET!!



- reinventing education at the high school level
- replacing 1929 buildings with 21st century schools
- educational innovations at all levels

even a funnel cloud can have a silver lining

opportunity

new facilities



supporting student learning by letting

**learning lead
the design**

preparing for design



Tours to see educational trends prior to and just after architect selection

- New Tech
- Career Academies
- Design Thinking Schools
- Apple Distinguished Schools
- visited Schools and Businesses in Missouri, Kansas, Nebraska, Illinois, Texas, California
- **visited Apple and Dell**

key take-aways

Educational Take-Aways – *too many to share*

Architectural Take-Aways

- learning on display
- the power of daylight
- effective use of space
- inspiring and fun finishes
- four types of spaces need for learning

recovery process



Worked with four architect firms

- Two Elementary Schools
- One Middle School
- One High School
- One Vocational School
- Safe Rooms at 13 existing school sites

bringing dreams to reality



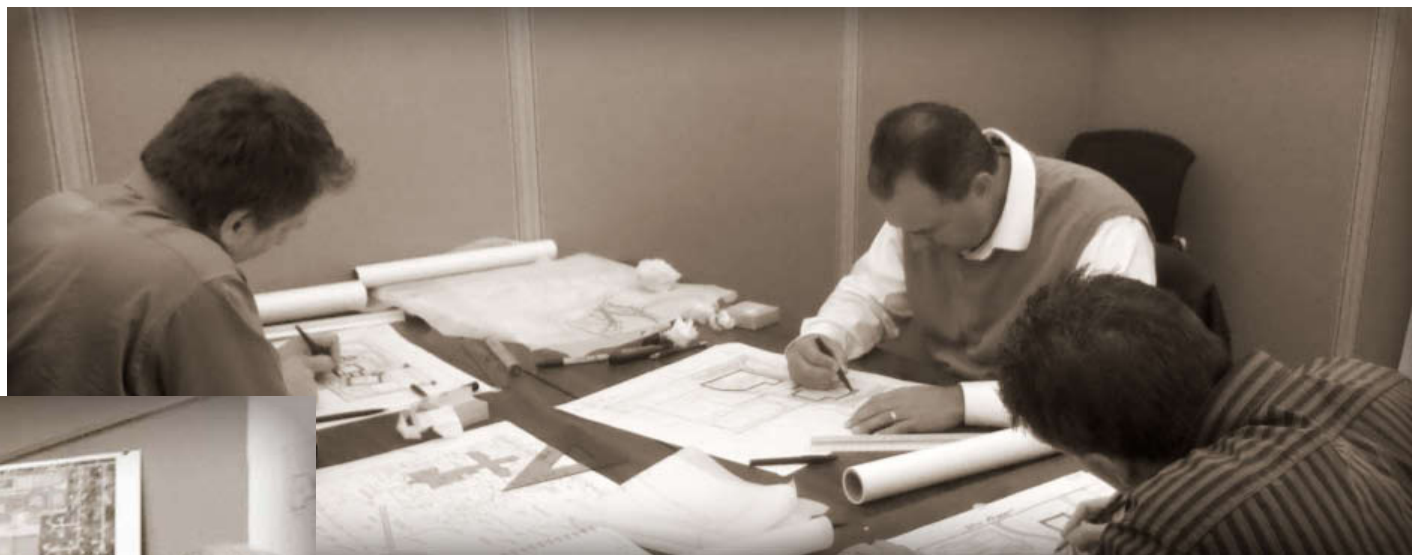
We had dreams for these new schools.
We spent time expressing and capturing those
thoughts

but ...

“what would it look
like if we really meant
it?”

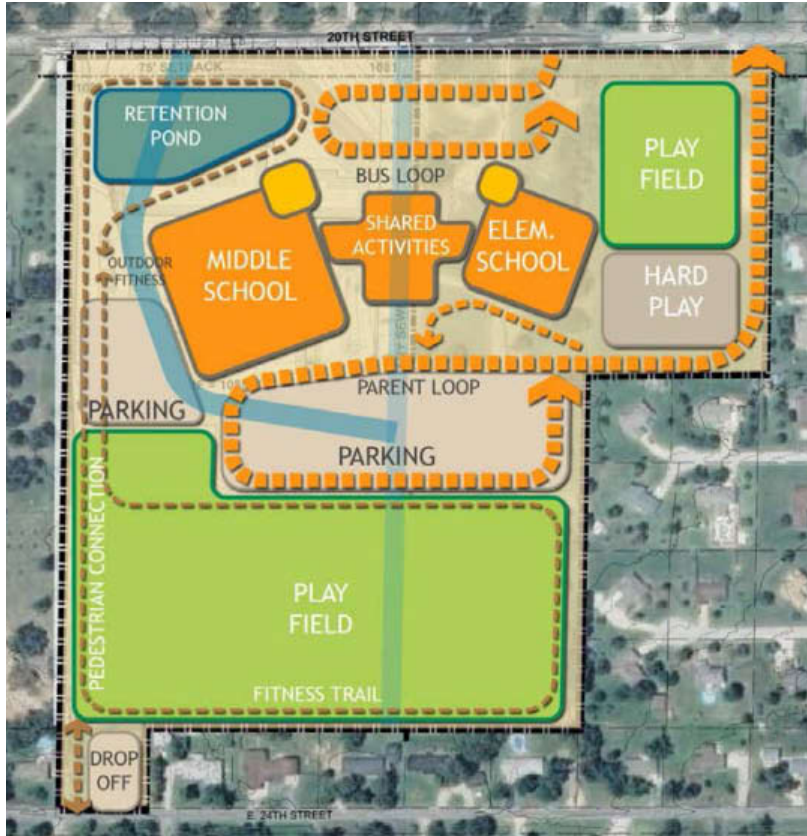
-amy yurko





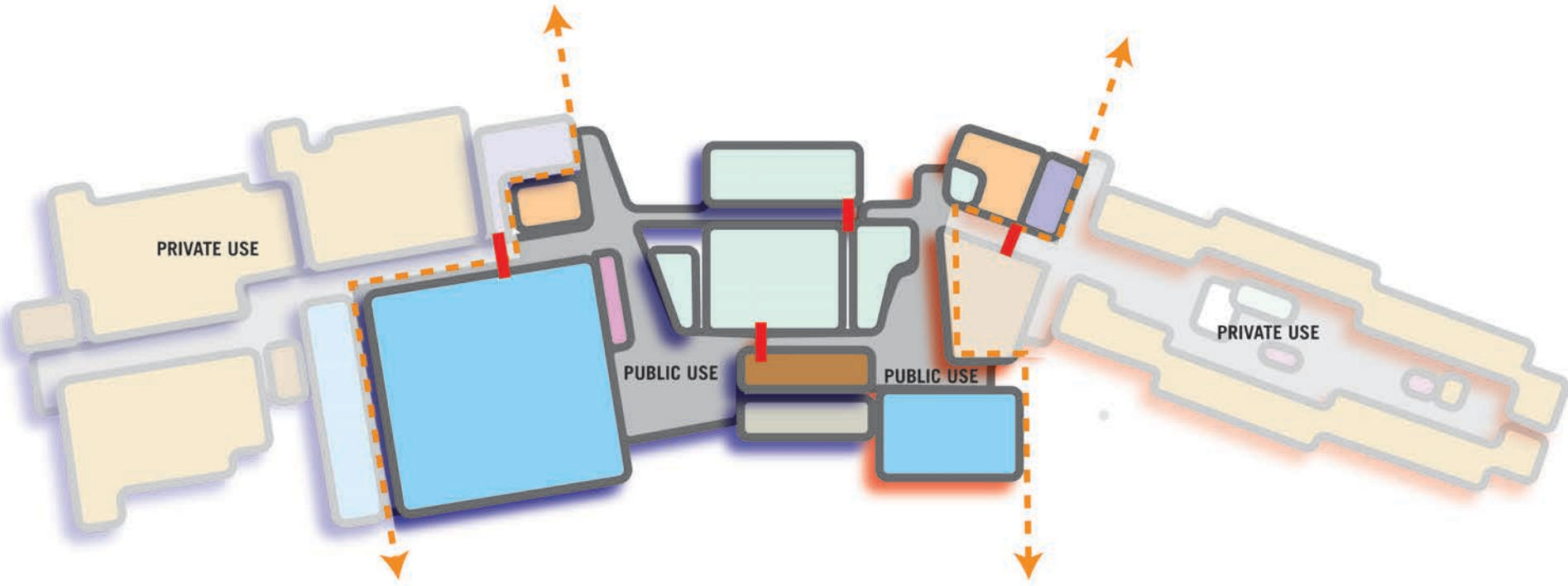
on-site charrette

site concept



- connect middle school with elementary school
- create innovative education opportunities
- mentoring on display
- cost savings by reduction of duplicate core services

one building | two schools



one building | two schools











hollis + architects
miller

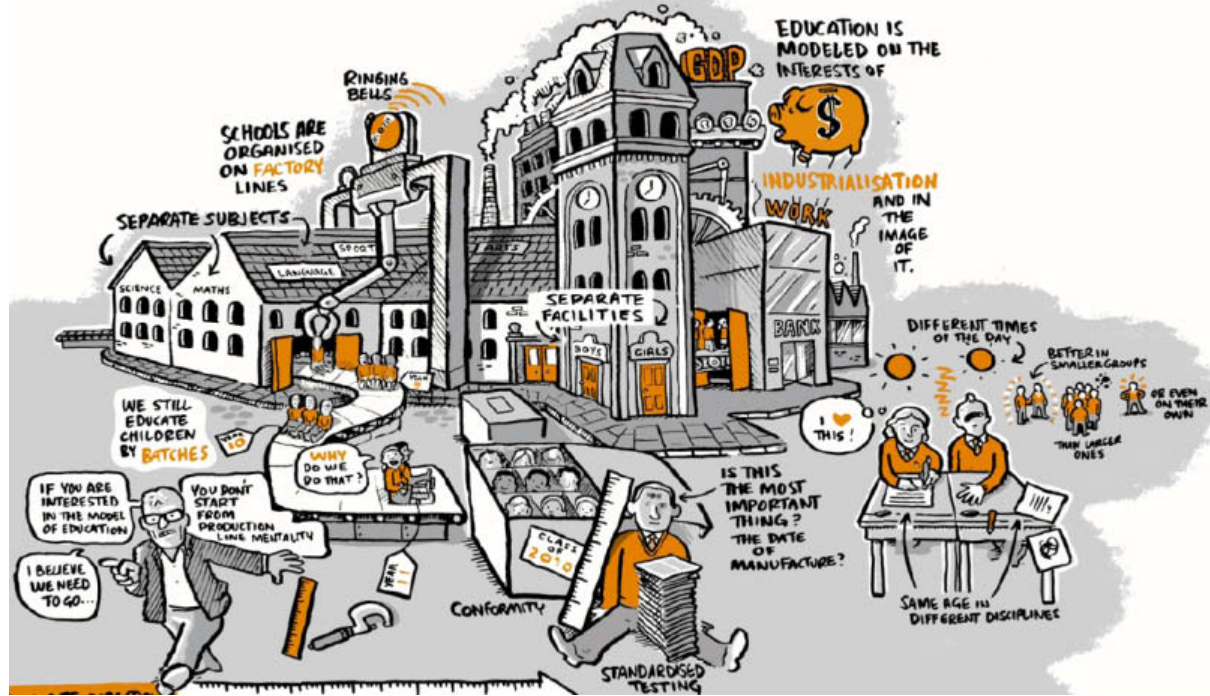




hollis architects
r miller



“Every country on earth, at the moment, is reforming public education.” – Sir Kenneth Robinson



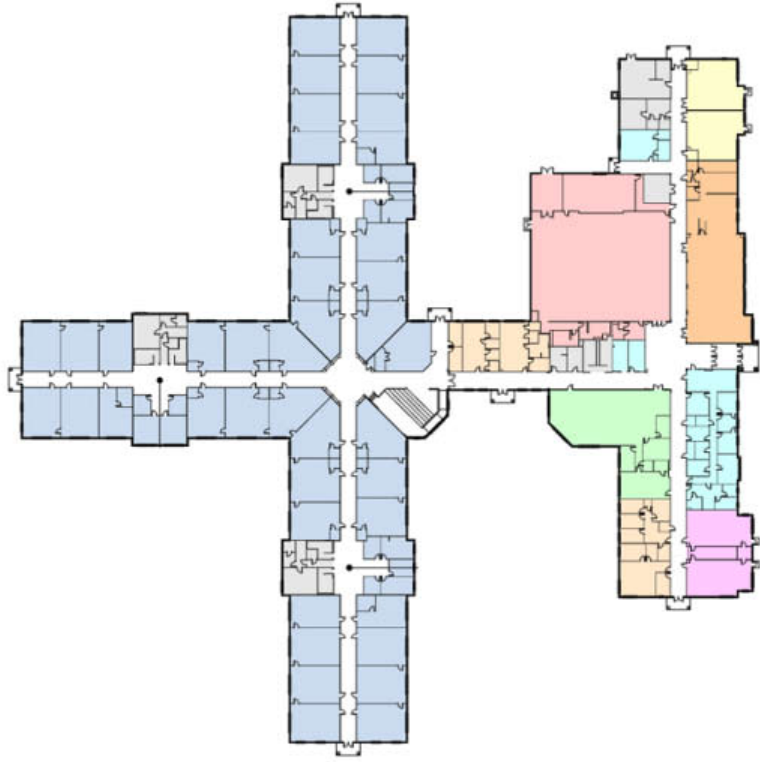
shifting education paradigms



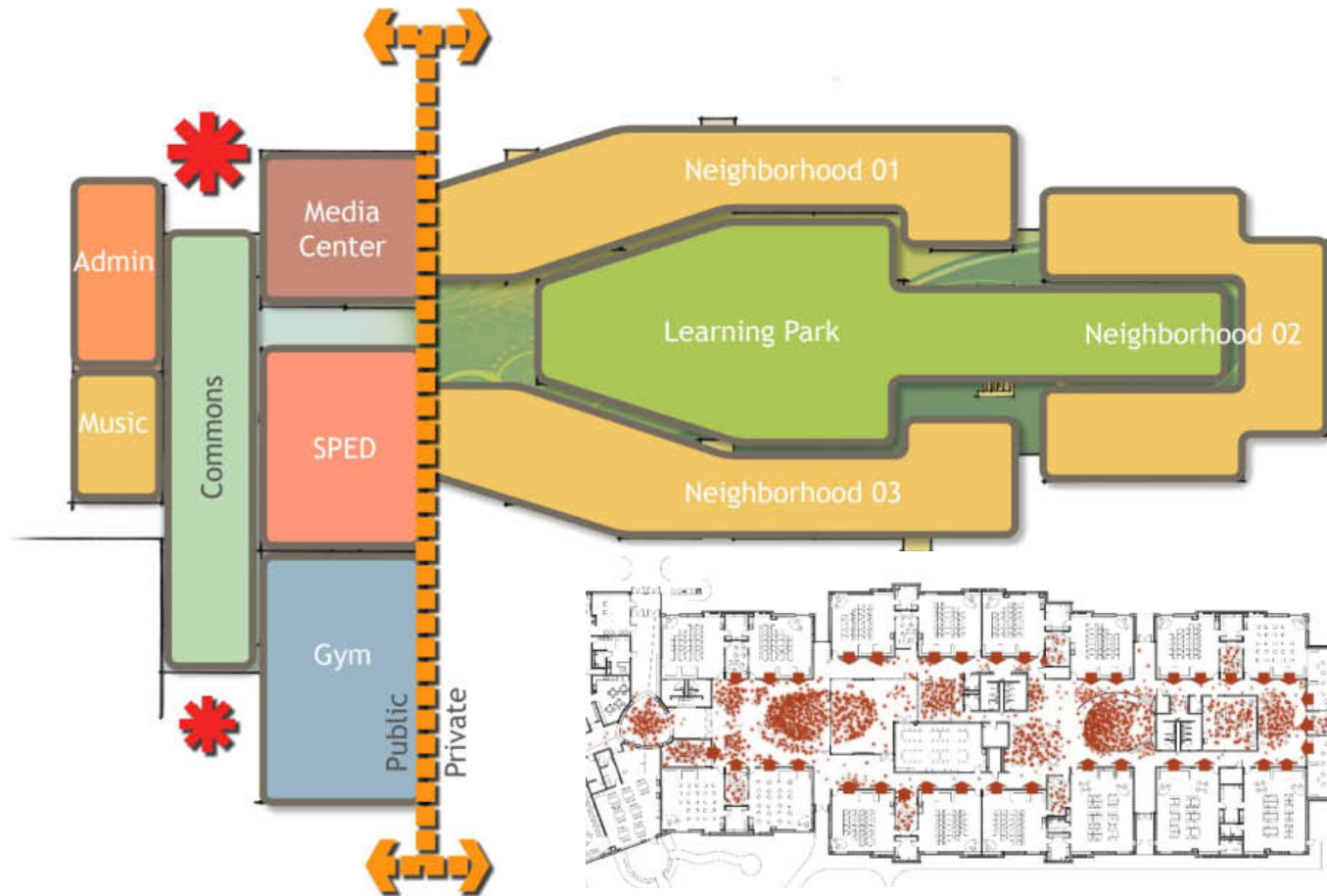
Add an **additional educational layer** over the top of the regular functions of the school.

Create spaces that facilitate the **mass customization** of education.

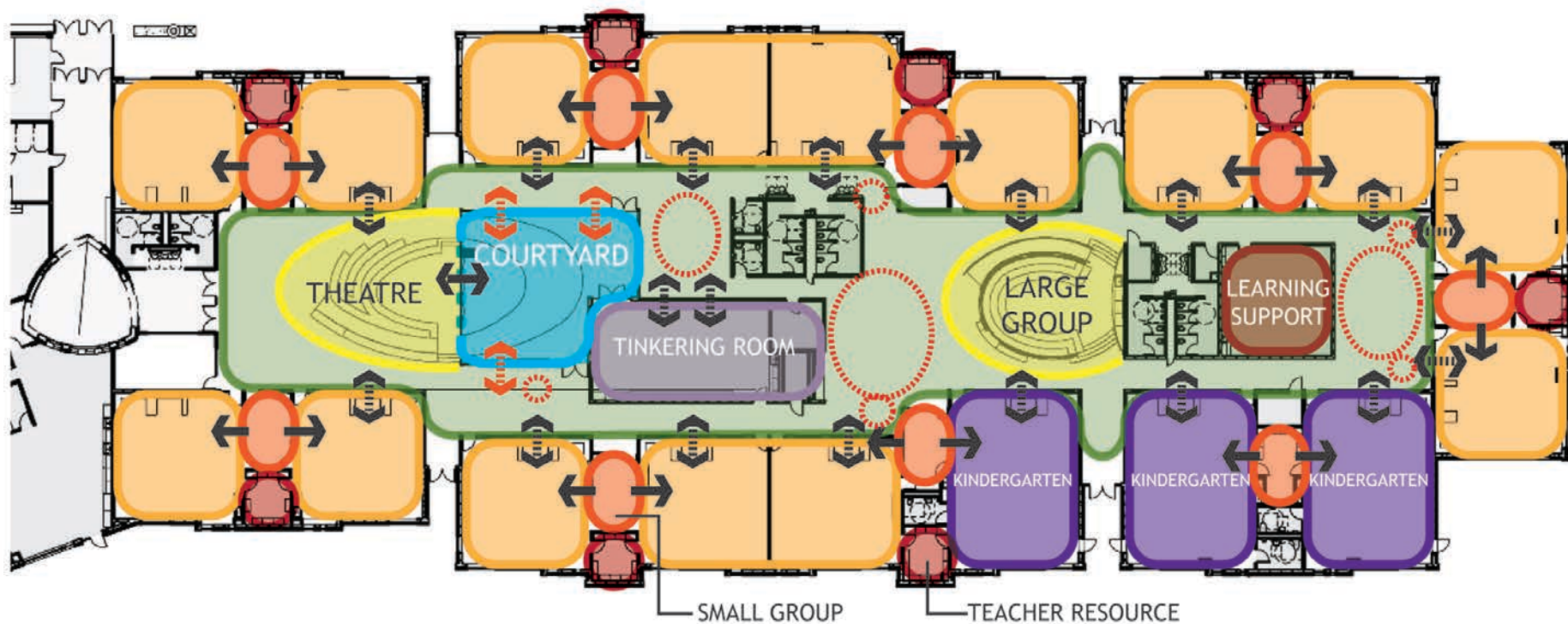
our charge:



traditional plans



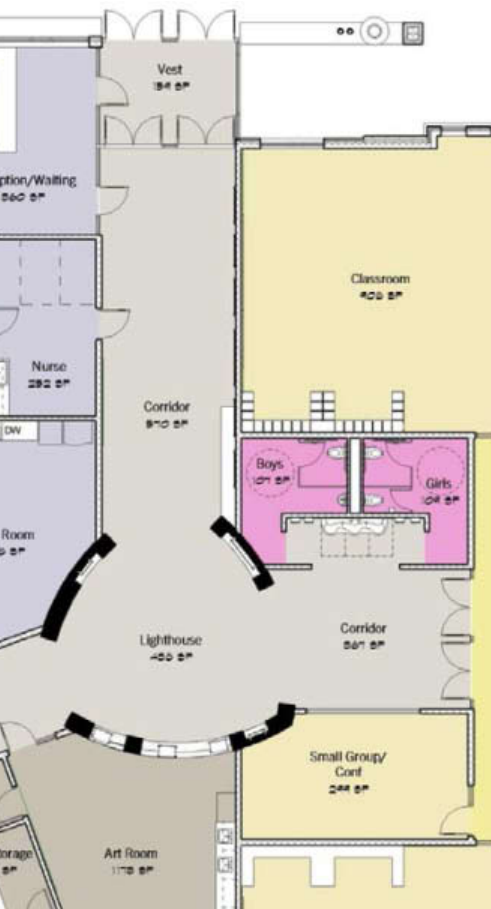
the learning park





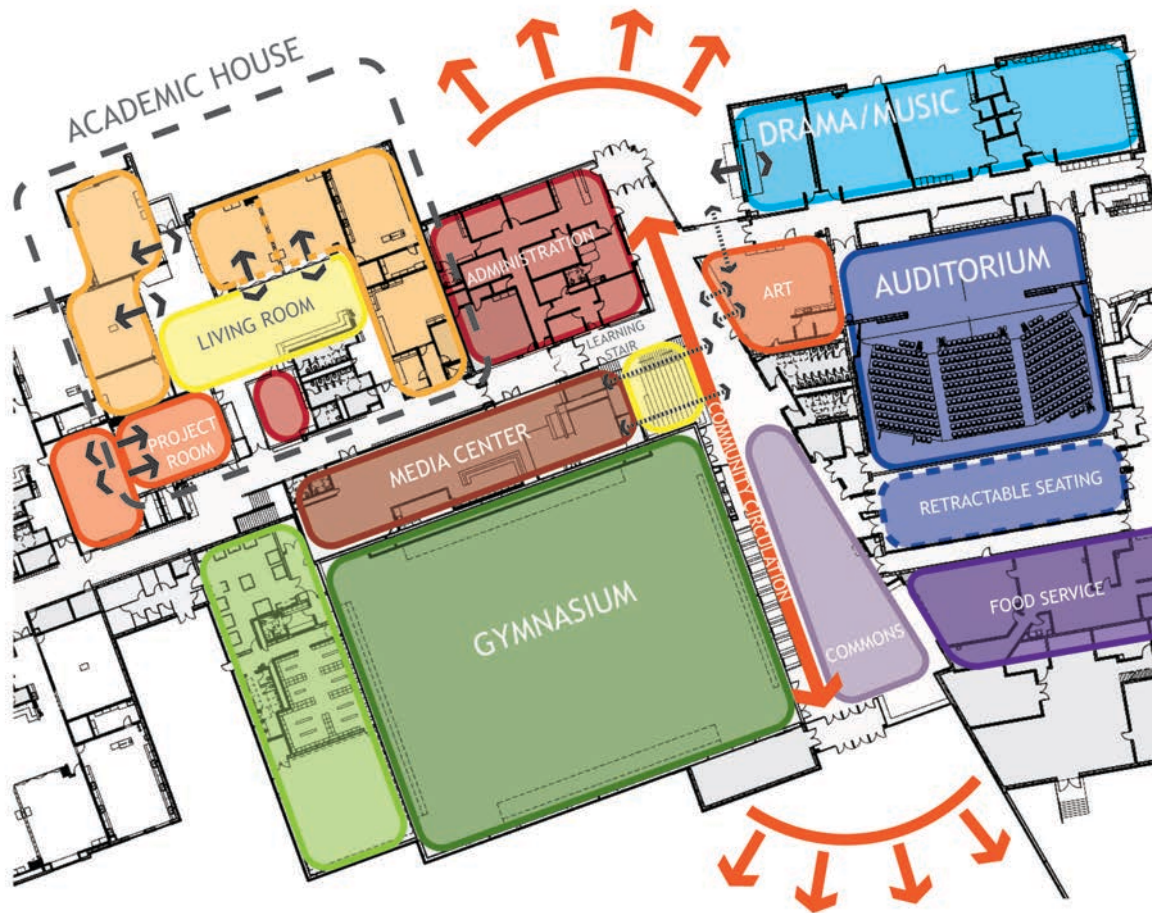




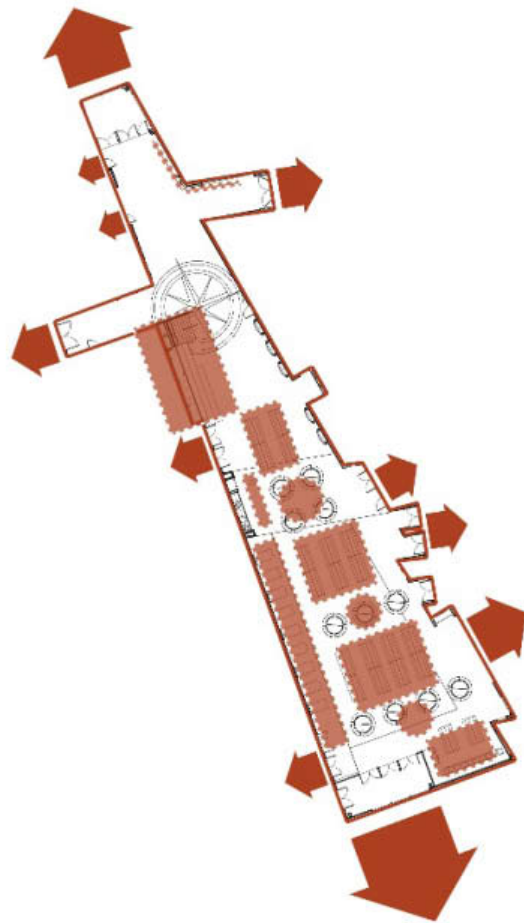


lighthouse





middle school



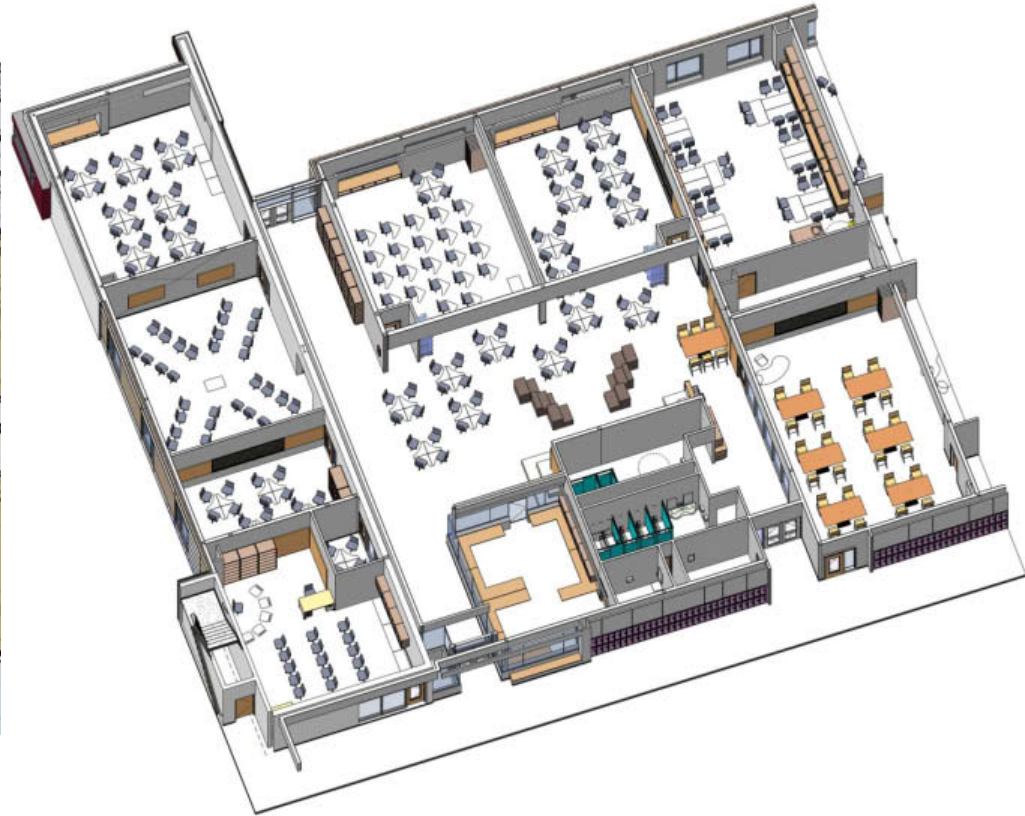








living rooms



living rooms









May 22, 2011

May 22, 2012

Q+A

“what would it look like if we
really meant it?”

-amy yurko



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thank you

“what would it look like if we
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