Career Center Working Group

Meeting #2 January 29, 2018

High School Planning & Design Stantec





To get from **A** to **B**... ...it's best to go through **C**.

Community

B

Α



"Prerequisites of Progress"

- Understanding
- Trust
- Permission
- Support
- Race to the Top
- (Democrief)

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High School Planning & Design Meeting Objectives / Agenda

- Inform the Process How has facility design evolved to support learning?
- Clarify the Challenge What does it mean to "optimize" the Career Center site?
- Receive Guidance What informs the design concepts?



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Student-led



Teacher-led



Post-Industrial

Agricultural Industrial

Information Digital Virtual Specific Collaborative



Teacher-led

What's happening in education?

Many different spaces







Agricultural

Post-Industrial

Industrial

Adaptable Flexible Varied Inviting Catalytic



Many similar spaces

What's happening in facility design?







	Economy	Education	Facilities
		Information	Adaptable
		Digital	Flexible
\$ S		Virtual	Varied
		Specific	Inviting
		Collaborative	Catalytic

What's happening?



What's happening in Virginia?

Spaces like this...



... are now like this.

Circulation / Collaboration

adaptable spaces and flexible, comfortable furniture diverse learning environments for a variety of learning activities and preferences

transparency and connectivity

Spaces like this...



... are now like this.



Spaces like this...



... are now like this.



Spaces like this...



... are now like this.



Spaces like this...



... are now like this...



...and this.

Multi-Use Performance

...and this.

Multi-Use Performance

Spaces like this...



... are now like this.

5

Outdoor Learning / Lab

NAC Architecture

Learning Space Types

Breakout







A breakout area is an informal environment usually adjacent to and observable from core instructional areas or labs. Students can split from the main class to collaborate in small teams. It typically features wifi and power for devices, as well as low tech writing surfaces. Break out areas can also be used by teachers to model collaborative work.

of peop



FUNCTION	Medium size group
FURNITURE	Moveable tables, Toolbox, Flexible seating
FLEXIBILITY	High
TECHNOLOGY	Wiff, Power in floor
LEARNING STYLE	Project-based, Collaborative, Multiage

A learning lounge is a larger break out space where multiple groups can work on interdisciplenary or multiage projects. It is intended to be located inbetween learning communities as a shared resource.

30-# of people

Dining Commons





FUNCTION	Dining
FURNITURE	Variety of tables and chairs
FLEXIBILITY	High
TECHNOLOGY	A/V, Screens, Wifi
LEARNING STYLE	Social

Dining should be celebrated and can be a significant learning experience about social interaction, nutrition and health, and our natural resources. This area can be adjacent to the Learning Commons to create a vibrant, multipurpose hub at the heart of a learning community.







Gathering

FUNCTION	Movement, Play
FURNITURE	Sports gear, Chairs as needed
FLEXIBILITY	Moderate
TECHNOLOGY	A/V, Screens, Wifi
LEARNING STYLE	Kinesthetic, Social, Collaborative

Fitness centers are more than just a place to let out energy, they can be the introduction to a lifelong understanding about healthy living, the joys of team sports, and collaboration and competition.

of people 20-150

Learning Space Types

Genius Bar



	conaboration	
FUNCTION	Innovation / Resource	
FURNITURE	Bar, Stools	
FLEXIBILITY	Low	
TECHNOLOGY	Connectivity, Printer	
LEARNING STYLE	Support, Multiage	

study, and receive support from tutors or peers. Designed to be an optimal setting for groups of 2 or 6, it can also serve for individual study, and occasionally group study. The genius bar can be located in a public, highly visible area of the building, making it an obvious resource for all students

of peop



FUNCTION	Wet space for: Art, Science, Culinary arts
FURNITURE	Studio / Lab furniture. Storage, Worksurface
FLEXIBILITY	Moderate
TECHNOLOGY	Wifi, Power, Water
LEARNING STYLE	Project-based

Core Instruction

The infrastructure for a science lab, art space, or other hands-on project learning ennvironments tend to be identical. Outfitting studios and labs in a similar fashion lends to maximum flexibility as programs change or arow.

f people 15-30

Learning Studio





FUNCTION	Core classroom
FURNITURE	Movable tables, Flexible seating
FLEXIBILITY	High
TECHNOLOGY	Wifi, Screens, A/V, Whiteboards
LEARNING STYLE	Multimodal, Multiage

An "L" shaped classroom allows for maximum flexibility among younger learners using small group centers, while still allowing older students to interact in larger group instruction & discussions

Learning Theater



FUNCTION	Large group
FURNITURE	Stepped seating, Pil-
	lows, chairs
FLEXIBILITY	Moderate
TECHNOLOGY	A/V, Screens, With,
	moropromoa
LEARNING STYLE	Presentation, Sharing

The learning theater is a casual auditorium intended for heavy use throughout the school week. More than just for assembly groups, the learning theater is an essential space for learning multimedia presentation skills, performing small group skits – it's an engaging TED Talk atmosphere for kids.

of people

Learning Space Types



Outdoor Play





FUNCTION	Play, Discovery
FURNITURE	Outdoor Seating, Play- ground equipment
FLEXIBILITY	n/a
TECHNOLOGY	n/a

LEARNING STYLE Kinesthetic

Natural play extends the learning cycle throughout the entire day through engagement with all of the senses. Play becomes an interaction with tactle surfaces, aromas of native/adapted plants, local geoagraphy, and the sounds of nature.



Outdoor Learning

Natural

UNCTION	Outdoor learning
URNITURE	Outdoor seating
LEXIBILITY	Low
ECHNOLOGY	Rainwater harvesting, Photovoltaic array, Weather station
EARNING STYLE	Observation, Exploration, Discover, Multiage, Kinesthetic

The outdoor classroom has come a long way since the ubiquitous neglected amphitheater. Full of interesting things to monitor and discover, outdoor learning environments are a necesity for connecting children to the natural world.

of people 20-40

Learning Space Types





- 1	collaboratio
	conduction

FUNCTION	Individual / Small gra
FURNITURE	Variety of seating, Writing surface
FLEXIBILITY	High
TECHNOLOGY	Wifi and power, Screenshare
LEARNING STYLE	Individual / Collaborative, Multia

A small multipurpose pod provides a place for quiet focus work, tutoring, small group screen sharing, and even a global skype portal.





	Support	
UNCTION	Resource	
URNITURE	Flexible sealing nearby	
LEXIBILITY	High	
CHNOLOGY	Projection, Wifi, Power, Speakers	
EARNING STYLE	Support	

An organized and condensed unit will teaching and learning supplies and tools, sometimes on wheels or fixed to a location.

+ of people n/a

Tutorial / Office





FUNCTION	Resource
FURNITURE	Desk, Small group meeting, Writing surface
FLEXIBILITY	Medium
TECHNOLOGY	Wifi, Laptop
LEARNING STYLE	Support

An office for instructional support outfitted with storage, furniture for student tutoring, peer support, and parent meetings.

of people **1-6**

Workroom / Conference







A meeting room, workspace, or planning area in support

of people **1-6**

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High School Planning & Design

Case Studies: Schools in High-Density Zones

- Land-constrained
- Mixed-use adjacencies
- More vertical than horizontal
- Creative use of outdoor space
- Well-developed ground plane
- Integral to the community experience
- Strong identity, presence
- Simple forms, compact footprint
- Greater reliance on public transportation

William Jones College Preparatory High School



William Jones College Preparatory High School









Arthur Phillip High School



Arthur Phillip High School







Yuying Secondary School



Yuying Secondary School









Hunters Point Middle School



Hunters Point Middle School

New York City



Roy and Diana Vagelos Education Center



Roy and Diana Vagelos Education Center



STUDY CASCADE

Sky Lounge Intimate and informal gathering space for study groups.

Exterior Terraces Available for student use at 4th, 8th, 10th, and 13th floors.

Stepped Lounge A tiered study lounge (on floors 7-8 and 11-12) provides opportunity for formal and informal study.

The Student Commons A double-height space that features a café, lounge seating, and balconies for both social gatherings and independent study.

gatnerings and independent study.

Study Spaces A range of intimate lounge-style and desk areas are distributed throughout the study cascade.

Multi-purpose auditorium A 275-seat flexible space used for campuswide events including lectures, screenings, and concerts.

Lobby The space is formed by a seating area, cafe, and a "study bar" overlooking the outdoor courts.

views of the Hudson River.

SPECIALIZED SPACES A vertical stack of loft classrooms,

laboratories, technical spaces, offices, and controlled environments.

Active Learning Classrooms Divided by operable partitions, these 30 / 60 person flexible spaces offer indirect sunlight and controlled views through continuous, full height windows. Flexible furmiture configurations are made possible by distributed power and data at the floor, and by suspended ceilings.

Administration Suites Office and support spaces for faculty and administration.

Simulation Center A specialized zone with mock examination rooms, clinics, and operating rooms.

Anatomy Quad Suspended booms with integrated screens and task lighting. Large footprint and central location allows for flexible use.

Special Event Space 190-person classroom / flexible event space with catering support.

 Simulation Suite
 An open reception area with debriefing rooms and support spaces, as well as further mock examination rooms, clinics, and operating rooms.



To Campus

Roy and Diana Vagelos Education Center







The New School



TRADITIONAL SUBURBAN CAMPUS



1111111111111 SOM

The New School

New York City







Osasco High School

Brazil







Osasco High School Brazil





SECOND-LEVEL PLAN

30 FT. 0 0

10 M.







Hazel Wolf K-8

Seattle, Washington







Takeaways:

- Up, Not Out Trading air space for green space
 - Anytime, Anywhere All spaces are learning spaces

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High School Planning & Design See, Be Seen Visual, spatial, social connectivity

• Future Ready If not now, soon

Community Mindset

Connections that reflect, reinforce community priorities

Design Matters

Good design helps connect people to a place and Stantec one another

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ARLINGTON CAREER CENTER

MISSION Instill a passion for learning by doing.

VISION

A dynamic community of self-determined learners connected through authentic, client-based work.

ARLINGTON CAREER CENTER

CTE

Academic Academy

ALT

HILT Institute

Program for Employment Preparedness Engineering Industrial Trades

AT

IT/Digital Media

Health/Medical

Human/ Public Service



Number of Seats at the Career Center





Number of Seats at the Career Center











Planning/Design/Construction Timeline





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MEETING SCHEDULE

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High School Planning & Design 1/29

Weeks .

*Stantec to provide design concepts per guidance from CCWG.

1/26

Meeting 4

2/21



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PLANNING AND DESIGN

- Vision / Guiding Principles
- Student Capacity
- Instructional Program
- Educational Specifications
- Site, Civic, and Cultural Context

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High School Planning & Design PLANNING AND DESIGN

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PLANNING AND DESIGN

Student Capacity

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High School Planning & Design Given our charge and all that you know, what's our target?





PLANNING AND DESIGN

Vision

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High School Planning & Design Above all else, what **must** this project do?

After the must-dos, what else **should** it do?

In addition, what else **could** this project do?

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