EDUCATION CENTER REUSE

David M. Brown Planetarium A Constant Quincy Street ARLINGTON PUBLIC SCHOOLS

1426 N QUINCY ST

BLPC / PFRC JOINT MEETING NOVEMBER 28, 2018

BLPC / PFRC JOINT MEETING 3

BUILDING LEVEL PLANNING COMMITTEE PUBLIC FACILITIES REVIEW COMMITTEE

NOVEMBER 28, 2018

- 1) Welcome
- 2) Project Parameters
- 3) Revised Meeting Schedule
- 4) Transportation Schematic Recommendations
- 5) Committee Comment on Transportation Recommendations
- 6) Space Program / Educational Specifications Update
- 7) Draft Schematic Design
- 8) Committee Comment on Draft Schematic Design
- 9) Public Comment
- 10) Next Steps and Adjourn

1 Welcome

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2 Project Parameters

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Project Parameters

- Project included in the FY2019-28 Capital Improvement Plan (CIP)
- Renovate the Education Center to both increase the capacity of Washington-Lee initially, and later to adapt to possible future instructional and grade level changes
- Support APS Strategic Plan Goals, specifically for Healthy, Safe, and Supported Students
- Address capacity by providing 500-600 high school seats
- Open by start of school 2021
- Spend a maximum project cost of \$37 million, using every effort to spend less



Building Level Planning Committee - BLPC

- 1. Based on Policy Implementation Procedure F-5.7 PIP-2
- 2. School Board approved BLPC Charge found at: <u>https://www.apsva.us/wp-</u> <u>content/uploads/2018/09/C-4-Education-Center-BLPC-Charge-083018-SB-approved.pdf</u>
- 3. Primary role is to serve as the principal communication liaison with community stakeholders
- 4. Solicit comments from constituency groups and share with the BLPC for consideration
- 5. Assist APS Staff during schematic design phase by reviewing:
 - a. Site amenities
 - b. Adjacencies between interior spaces and site amenities
 - c. Community use of the building and site
 - d. Impact of project on surrounding community



Public Facilities Review Committee - PFRC

- 1. PFRC Charge (June 18, 2014) found at: <u>https://arlingtonva.s3.amazonaws.com/wp-content/uploads/sites/5/2014/06/PFRC_Charge_June2014.pdf</u>
- 2. Mission: to ensure that the highest quality of land use planning, design, transportation planning, and other important community aspects are incorporated into civic projects as assigned to the Committee by the Arlington County Board.
- 3. Key responsibilities:
 - a. Provide a forum for advisory commission and committee input
 - b. Ensure highest quality of land use planning and design
 - c. Promote compliance with County Comprehensive Plan and other County planning policies
 - d. Provide means for broad-based public participation
 - e. Provide advice to County Board and County Manager

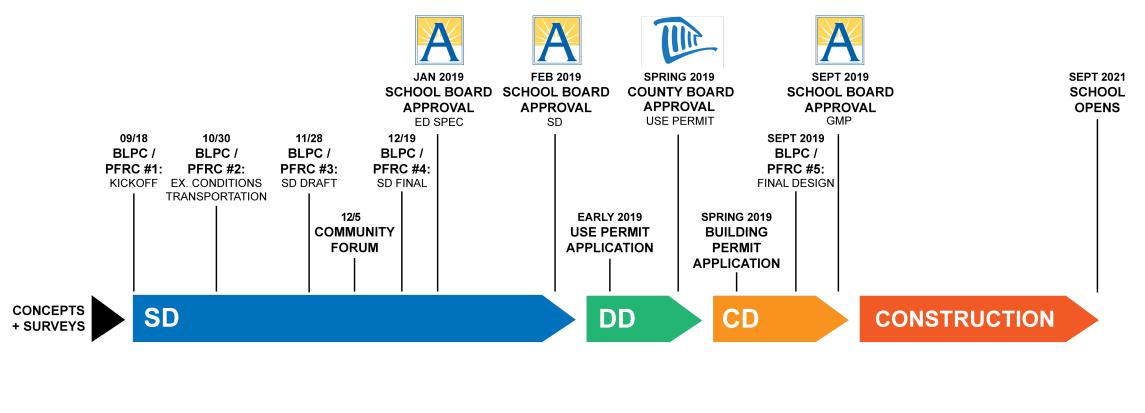




3 Revised Meeting Schedule

BLPC / PFRC JOINT MEETING NOVEMBER 28, 2018

Project Timeline





Transportation Schematic Recommendations

47

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Topics

Parking

School buses

Parent drop-off/pick-up

Traffic operations

Recommendations





What we heard last meeting

Need to maintain visitor parking for the pool

Speeding concerns on N Quincy Street

Cut-through traffic on 13th and 14th to N Quincy St

Pedestrian crossing challenges N Quincy St at 13th and 14th

Southbound left turns from N Quincy Street onto Washington Blvd

Parking management in the garage (policies, pricing)





Visitor Parking

Existing Demand 33

Projected Demand

Supply 50 in Pool/Visitor & Front Door Lots

Recommendation

No change to amount. Explore signing more school visitor parking near W-L front door.





Existing Demand

189 Staff 192 Student

381 Total spaces

Chart shows estimations of who is parking where between the 5 areas within the garage and the unrestricted on-street parking nearby

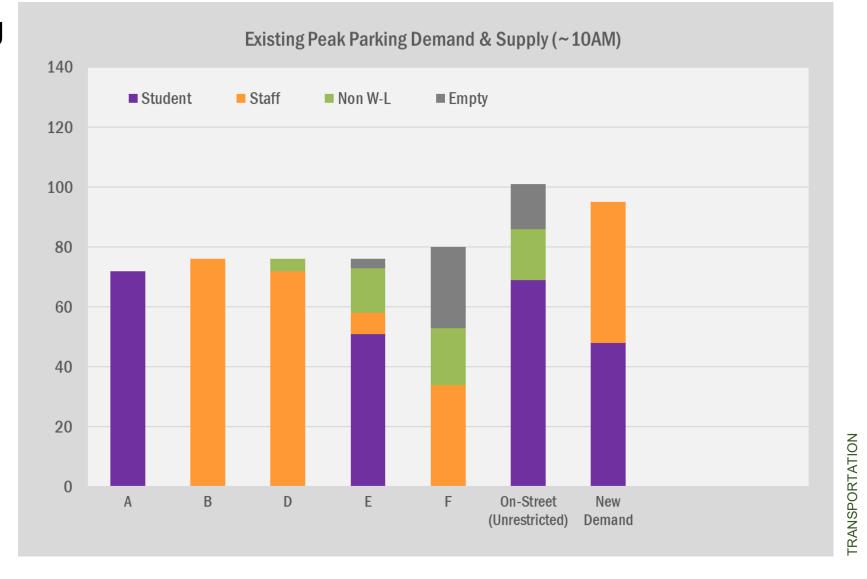




Projected Demand 236 Staff

240 Student

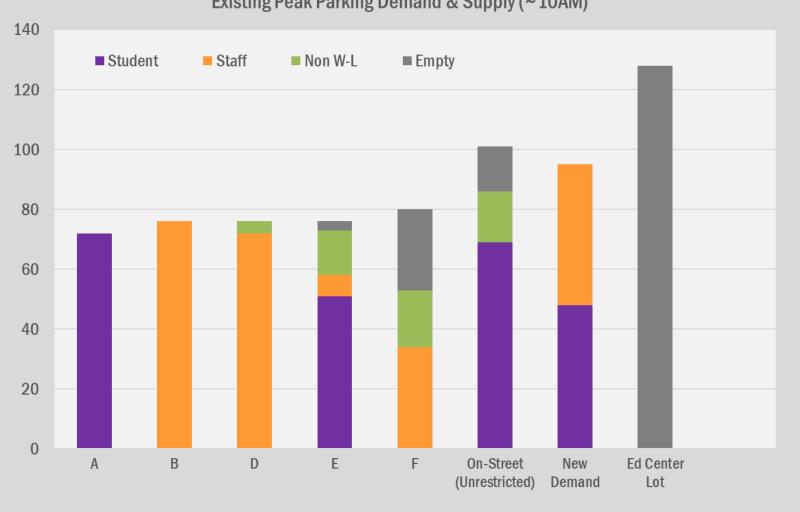
Net increase of 95 spaces

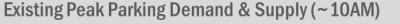




Potential Supply

30 spaces in garage 15 spaces on-street 128 spaces in Ed Center lot







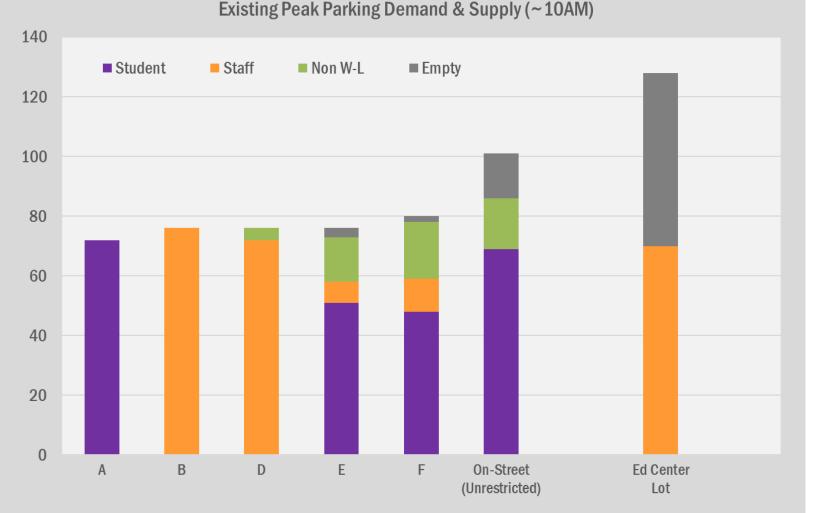
If demand stays same:

Convert area F to public (similar to E)

Open up Ed Center lot to staff

Around 58 empty spaces in Ed Center lot

Only some of the spaces in the Ed Center lot are needed



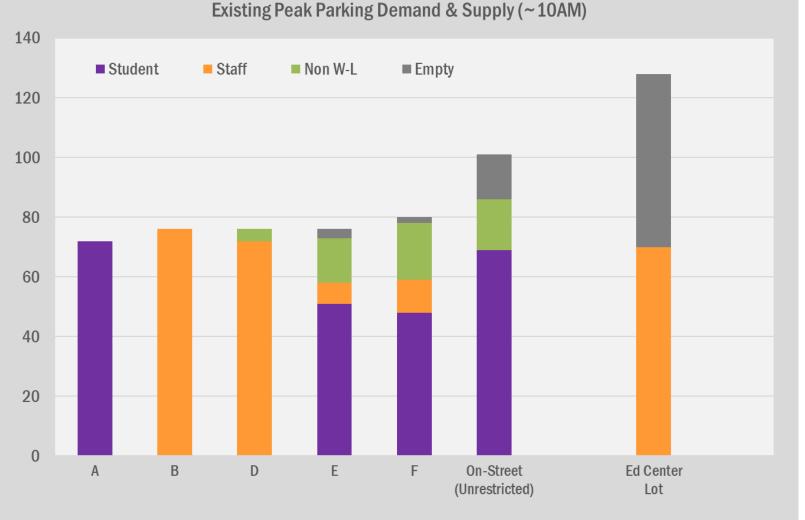
TRANSPORTATION



Parking Recommendations

Open 70 spaces in the Ed Center lot

Explore ways to decrease parking on site even further through demand management



TRANSPORTATION



Arrival/Dismissal

Establish additional:

Bus loading/unloading Student Drop-off/Pick-up

Adds flexibility:

Can be used to supplement W-L facilities, or act as independent facilities





School Buses

Existing Demand W-L served by 24 buses

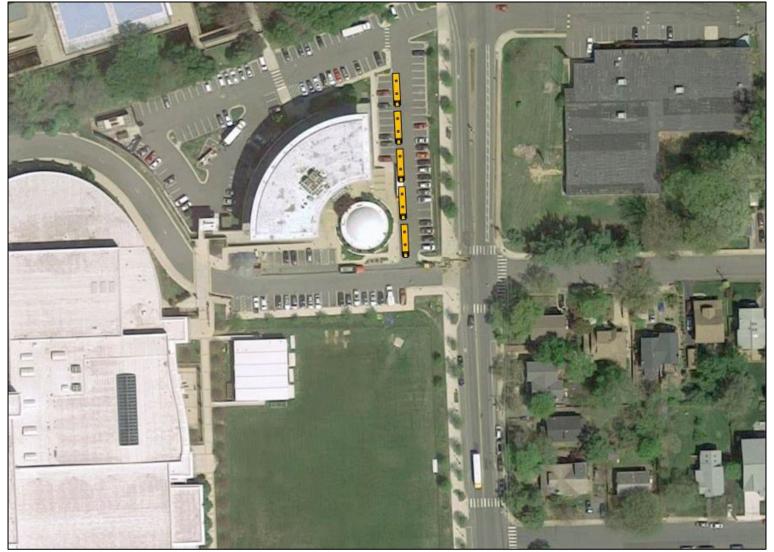
Potential Demand

Likely will have a similar amount of buses, with a small chance more will be needed.

Recommendations

Create additional bus loading/unloading area on the N Quincy St side

Five buses can fit within the drive aisle in the Ed Center lot





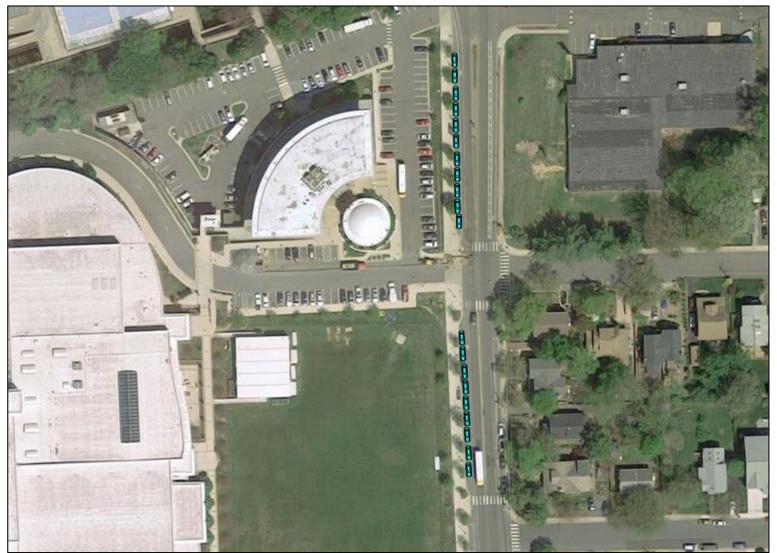
Drop-off/Pick-up

Recommendations

Create additional parent drop-off/pick-up area on the N Quincy St side

Alter time restricted parking on N Quincy Street to reserve on-street parking for arrival/dismissal

Room for 20 vehicles to load/unload at the same time





Bike Parking

Projected Demand 23 Staff 135 Student

Recommendations

Add third parking location on N Quincy St side (or expand location on General's Way), preferably with covered/secure spaces

Explore improvements to staff parking options & amenities



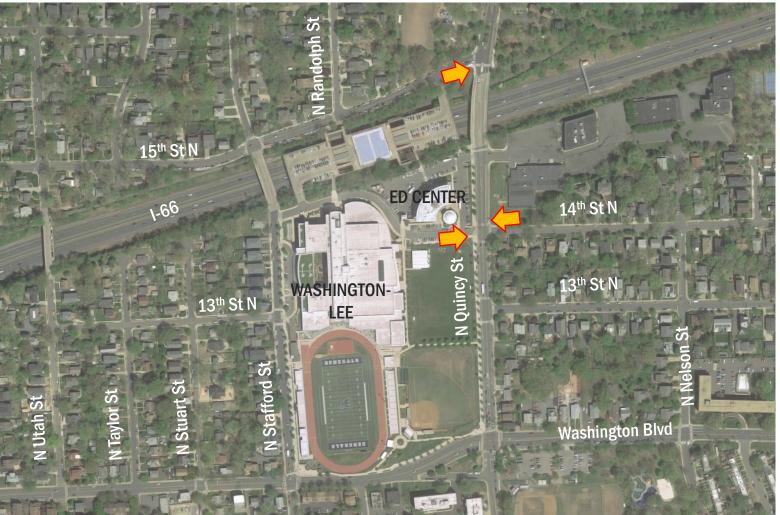


Traffic Operations

Traffic models with the new school population added aren't that much different than existing conditions ones.

The delays for drivers trying to turn onto N Quincy St get longer (lack of gaps for people to turn onto Quincy St)

Addition of Buck site traffic shows similar results





Traffic Operations

A right turn lane could help where 15th St turns onto N Quincy St, but wouldn't be appropriate given the trail connection.

A southbound left turn arrow for N Quincy Street helps that turn, but overall – makes things worse for the intersection (esp. in the PM)





Pedestrian Crossings

Data shows (and video confirms) that there are few gaps in traffic along N Quincy St (esp. in the morning).

Based on standards for school crossings the crosswalk at 14th/Quincy already meets standards for upgraded treatment



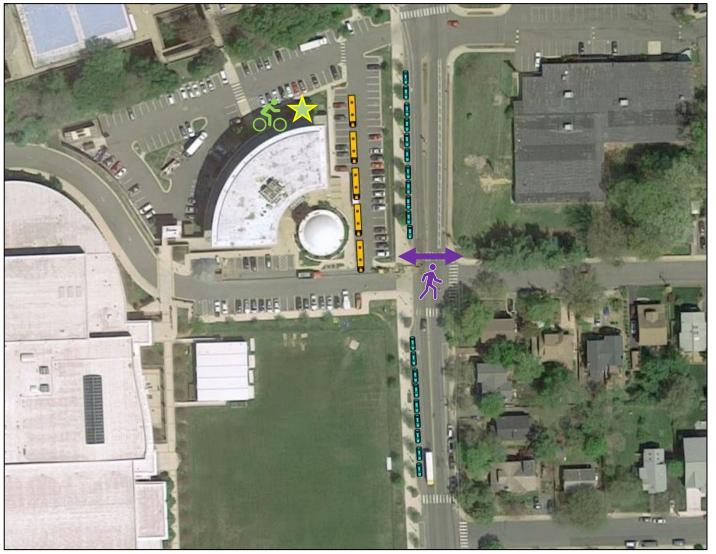


Summary of Concerns

(1) General level of activity on N QuincyStreet & conflicts between modes

(2) Pedestrian crossings of N Quincy St

(3) Long delays for side street traffic





Potential Solutions from the Toolbox

Traffic control devices

- Traffic signal
- HAWK signal

Enhanced crosswalks

Rapid flash beacon

Operations/management

- Police office/crossing-guard
- APS staff





Traffic Signal

Doesn't meet analytical thresholds

None of the unsignalized intersections along N Quincy meet standard thresholds for a traffic signal. The volume of cars is too low – even after adding Ed Center and Buck site traffic.

Could lead to negative impacts

(1) Increase in crashes(2) Increase in cut-through traffic





HAWK Signal

On the edge of meeting standards

Would be clear cut if N Quincy Street was more than one lane in either direction

Good justification

Given the crosswalk is a school crossing and entirety of data there is a good case for HAWK

Concerns

Potential increase in crash rate





Rapid Flash Beacon

Meets standards for installation

There is one installed at 5th & N Quincy Street

Concerns

Driver compliance rate varies greatly between locations





Operations/Management

Police officer/crossing guard

Not controlled by APS, thus difficult to make a condition

Doesn't help outside arrival/dismissal times

Arrival/Dismissal procedures

Incorporated into student/parent school handbook

APS staff

Staff on sidewalk could help organize bus, pedestrian, and student dropoff/pick-up from the sidewalk/school property, and enforce arrival/dismissal procedures





Summary of Recommendations

Visitor Parking

• Keep mostly the same, but explore adding more near W-L front door.

Staff/Student Parking

- Reopen 70 of the existing 128 parking spaces in the Ed Center lot
- Explore ways to further reduce parking demand

Bicycle Parking

- Add bicycle parking on N Quincy St side of campus
- Explore sheltered bike parking
- Explore improvements to staff bike parking and amenities

Student drop-off/pick-up

- Add second designated area on N Quincy Street side, where metered parking is today
- Make drop-off/pick-up area available for visitors outside of arrival/dismissal times (e.g. 2-hour parking outside of arrival/dismissal times)

Bus loading/unloading

 Add 5 more spaces for bus activity in Ed Center lot

Traffic Operations

- Select a recommended pedestrian crossing treatment
- Use arrival/dismissal procedures with APS staff on sidewalk to enforce procedures



Transportation Next Steps

Our to-do list:

- Review feedback from today
- Document all of this in the Multi-Modal Transportation Review (MMTA)
- Receive comments on draft MMTA

 -APS
 -County staff
 -BLPC/PFRC
- Finalize MMTA





5 Committee Comment on Transportation Recommendations

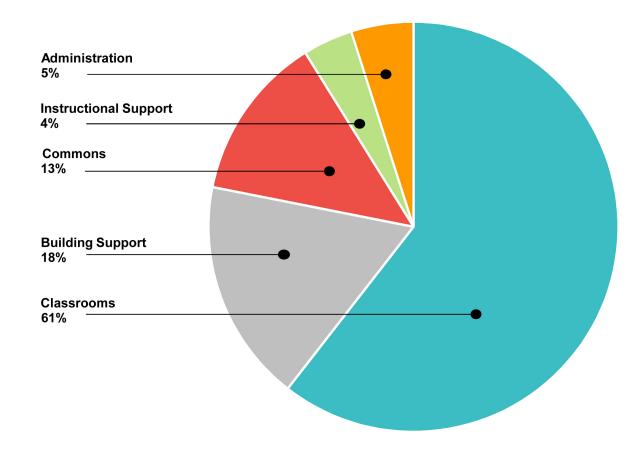
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6 Space Program / Educational Specifications Update

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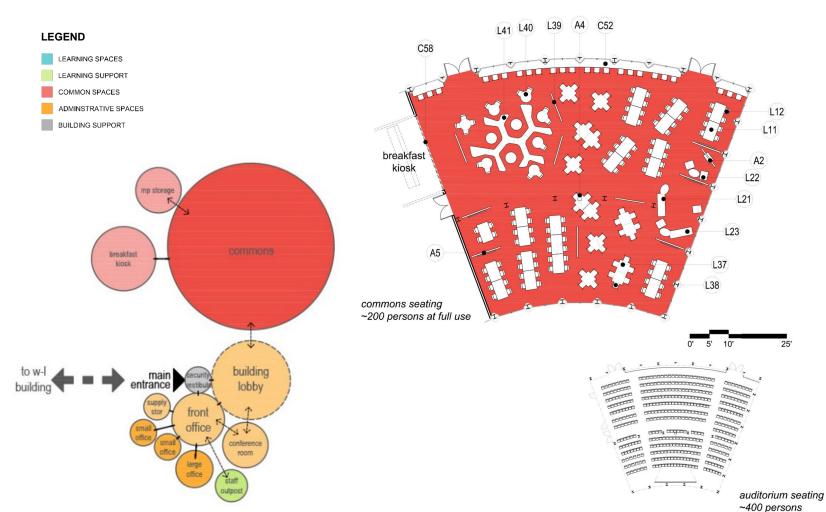
Educational Specifications + Space Program

Educational Specifications + Space Program by APS Staff





Educational Specifications Example



COMMONS

Description

A flexible and adaptable space to accommodate meals, individual and group work, large group gatherings and small assemblies.

Size

4,000 SF

Capacity

400 learners, staff

Related spaces / floor level Direct access to breakfast kiosk

Near commons storage

Loose furnishings

L11 folding table for four (22)
L12 high-density stacking chairs (400)
L21 mobile, small worksurface (3)
L22 lounge chair (4)
L23 lounge couch (2)
L37 bar-height table for four (13)
L38 bar-height stool (73)
L39 mobile partition (5)
L40 café table for 4 (10)
L41 coated foam modular bench (8)

Casework, display boards + equipment

C52 café bar (3, length varies) C58 lockable roll-up gate

Audio Visual

A4 projected display with automated screen (1)

A5 mobile partition with mounted tv display (5)

Information Technology

Wireless access points and charging stations

Environmental Considerations

E1 access to daylight, ventilation + views from one or more exterior walls



Draft Schematic Design

ARLINGTON EDUCATION CENTER 1426 N. QUINCY STREET

Arlington County Principles of Civic Design

- Intended to inform the design of civic facilities
- Ensure facilities meet community goals and are attractive, durable, & functional
- Supplement existing County planning documents & policies
- Each project reviewed individually- certain principles may be stressed over others

Civic Values

- Context
- Bold Architecture
- Sustainable Design
- Universal Design
- Adaptive Reuse
- Open Space
- Mixed Use

Siting & Orientation

- Building Entrances
- Emphasize Pedestrians, Bicycles, Mass Transit
- Circulation
- Outdoor Spaces

Building Form

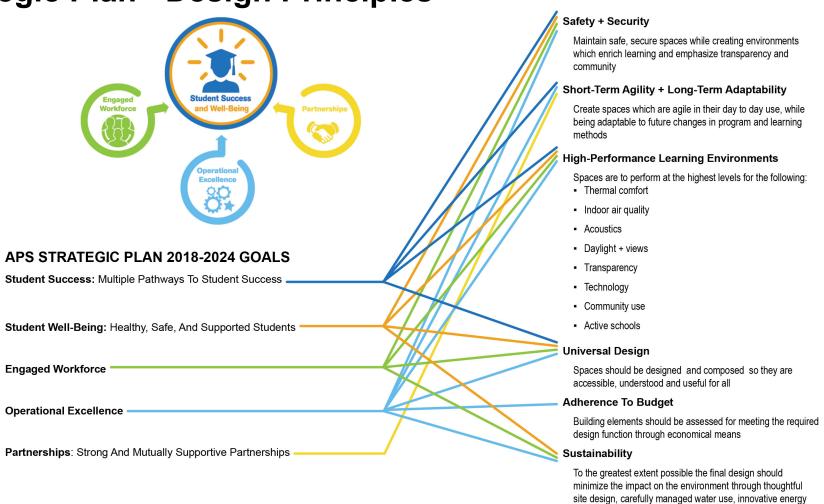
- Massing
- Scale
- Hierarchy

Building Details & Materials

- Pedestrian Scale
- Public art &
 Architecture
- Durable Materials
- Consistency
- Sense of Place



APS Strategic Plan - Design Principles







DESIGN PRINCIPLES

and exterior envelope solutions, selective material use and a

holistic approach to the interior design.

BLPC / PFRC Committee Discussion Points for Schematic Design

General

• Adherence to Arlington County principles of civic design

Site Layout

- General character and location of amenities
- Pedestrian circulation
- Quantity and location of vehicle and bicycle parking
- Bus pick-up and drop-off area
- Vehicular pick-up and drop-off area
- Traffic operations improvements

Building Appearance

• Character and strategy for glazing replacement

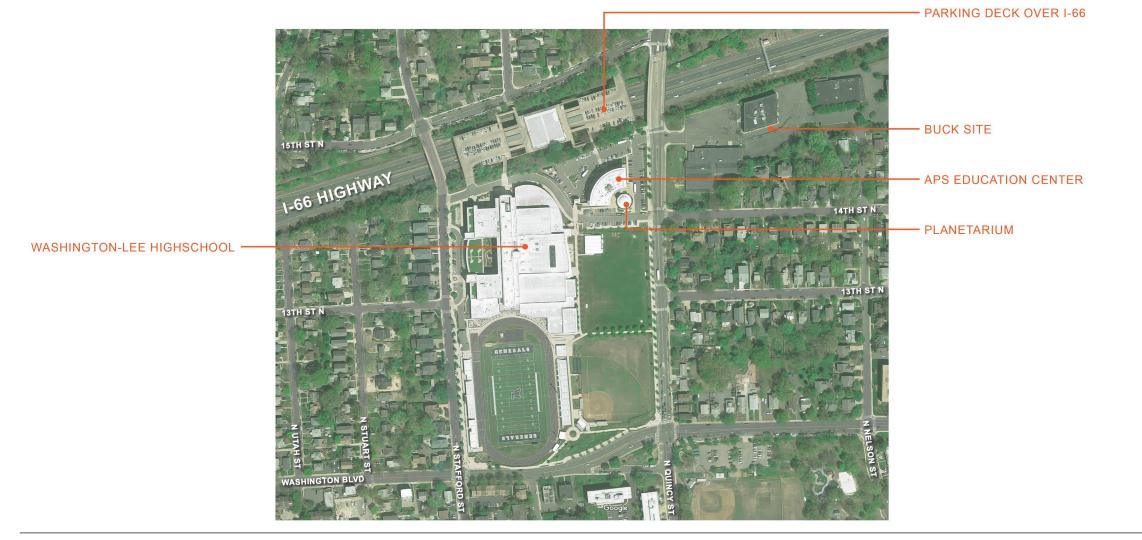
Building Layout

- Location of entrance(s)
- Location of major public space(s)



7 Draft Schematic Design Site Design

Existing Campus





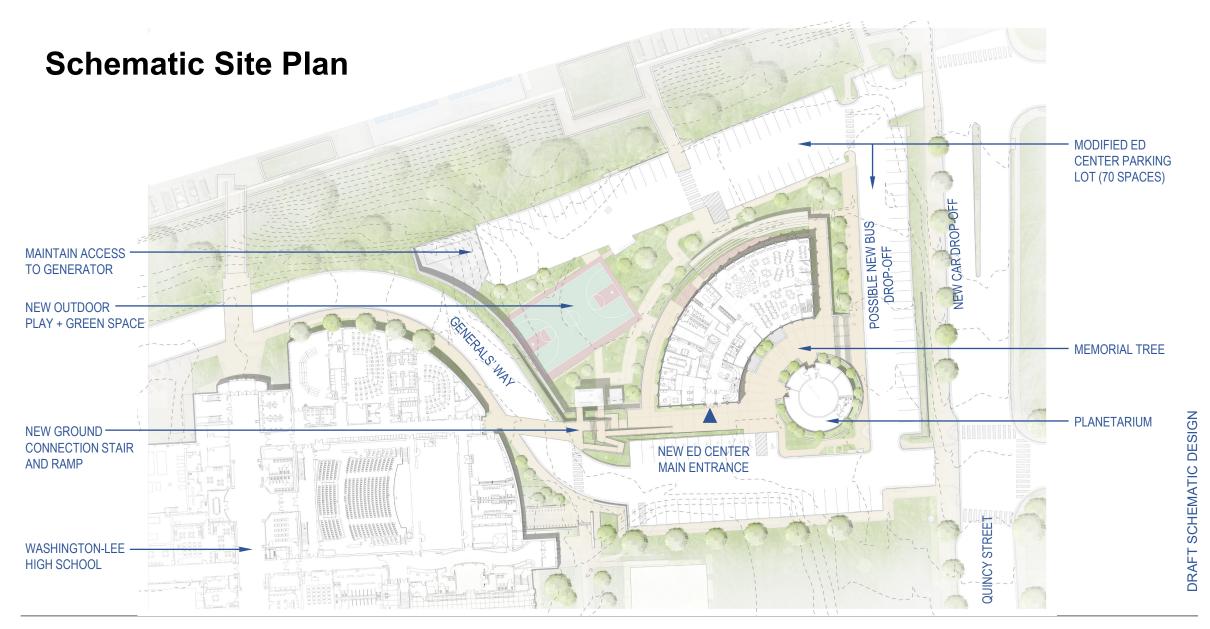
DRAFT SCHEMATIC DESIGN

Existing Site Circulation

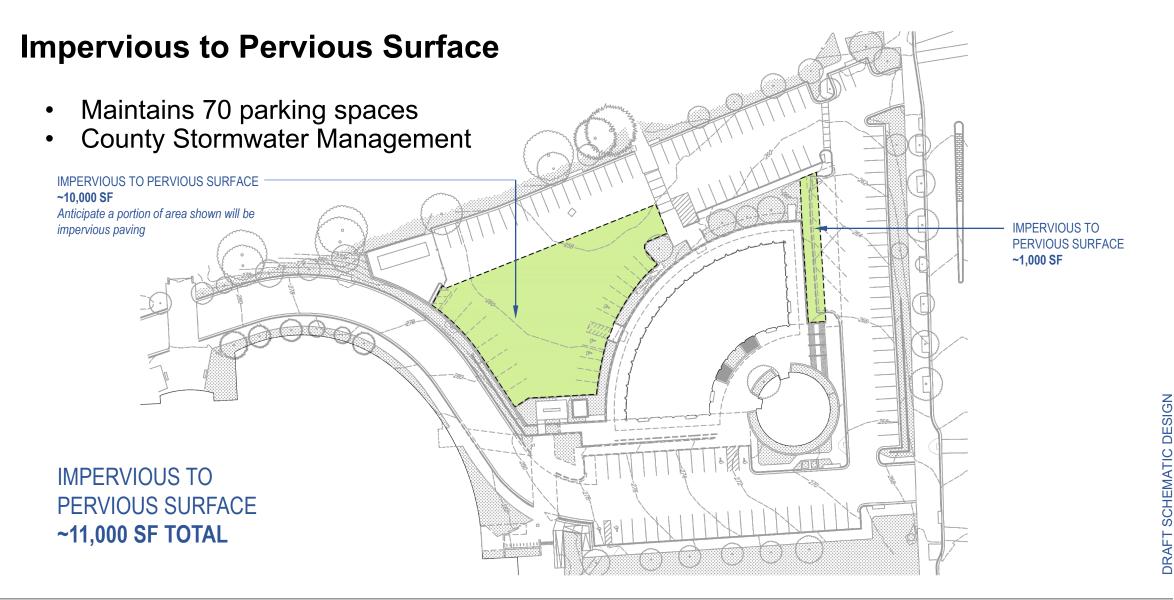




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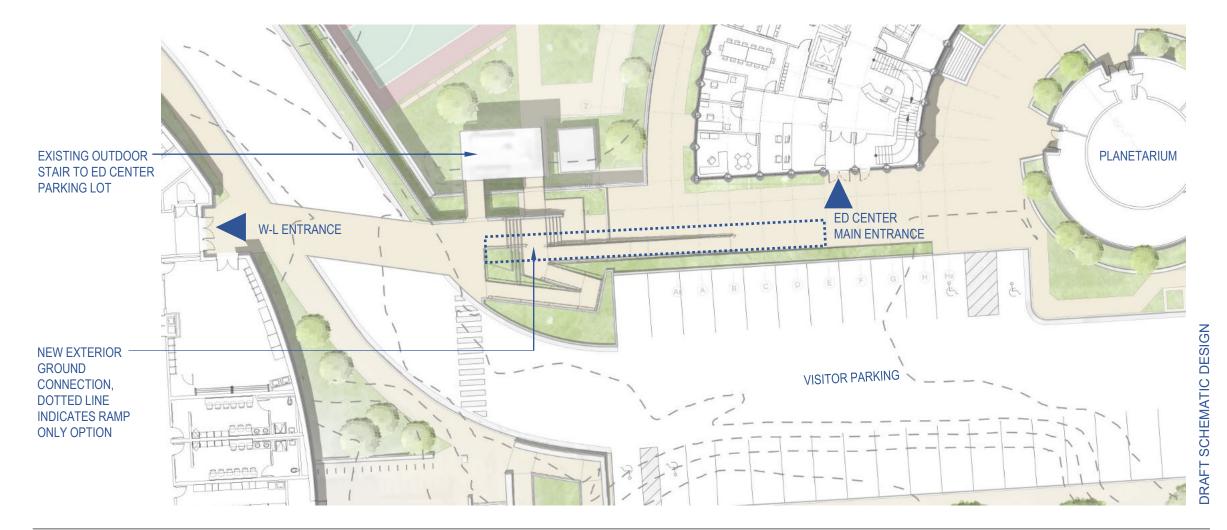




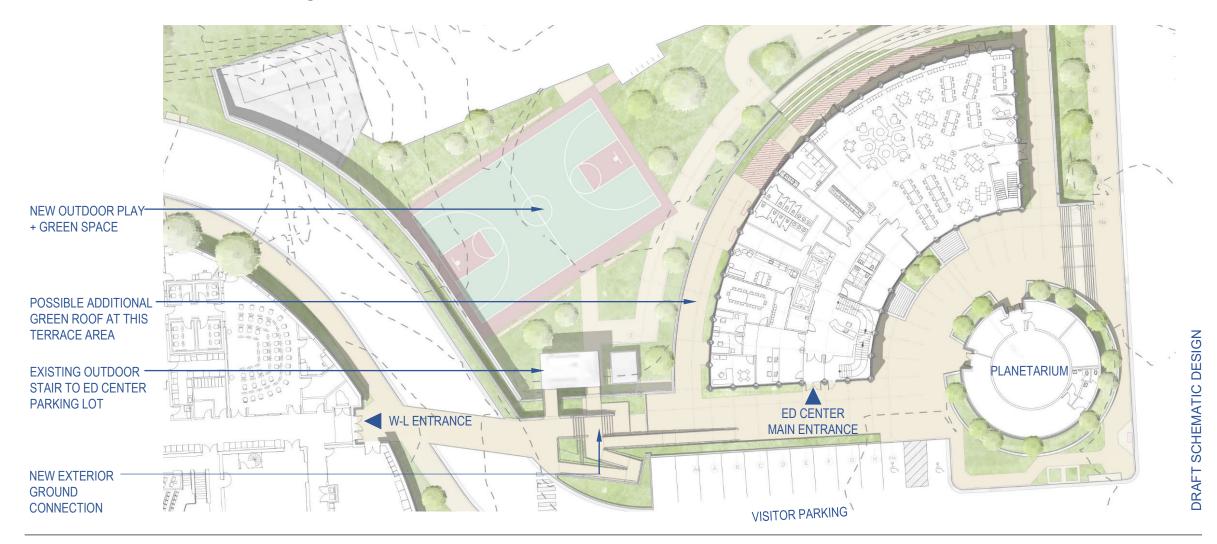
Arlington Public

Schools

Site Connection with W-L



New Outdoor Play Area

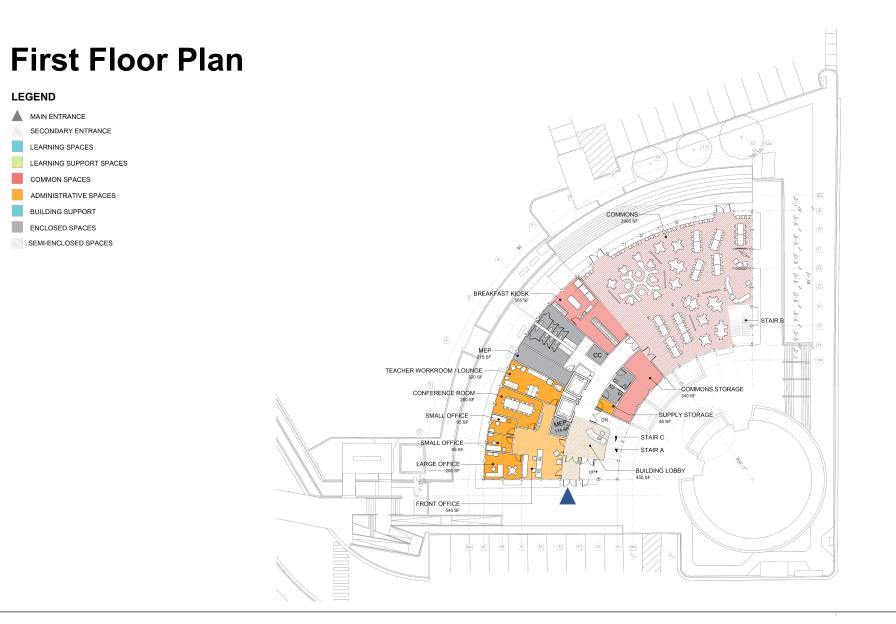




Terrace Extension + Bike Canopy

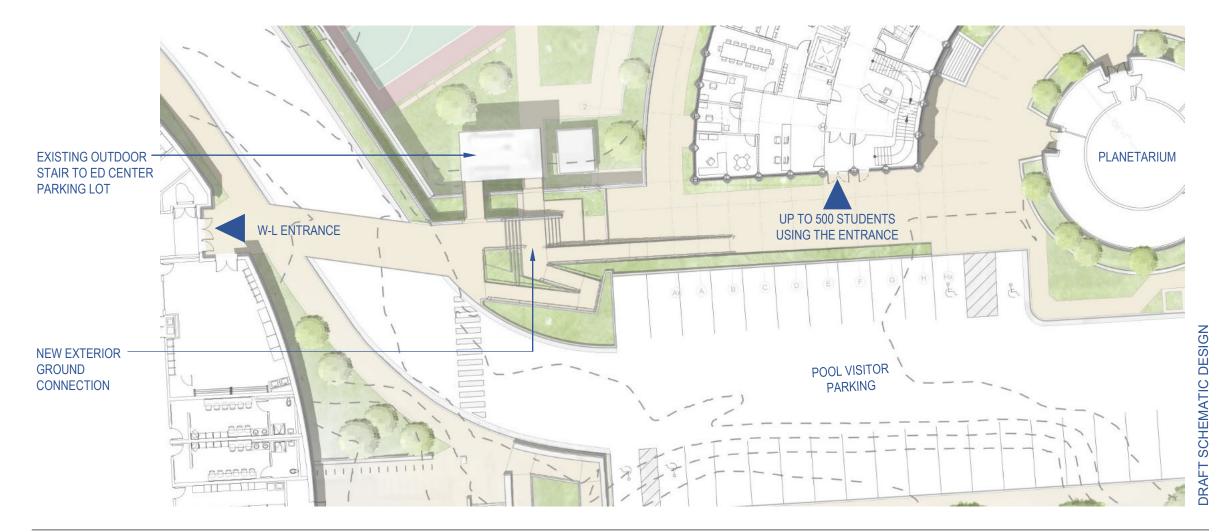






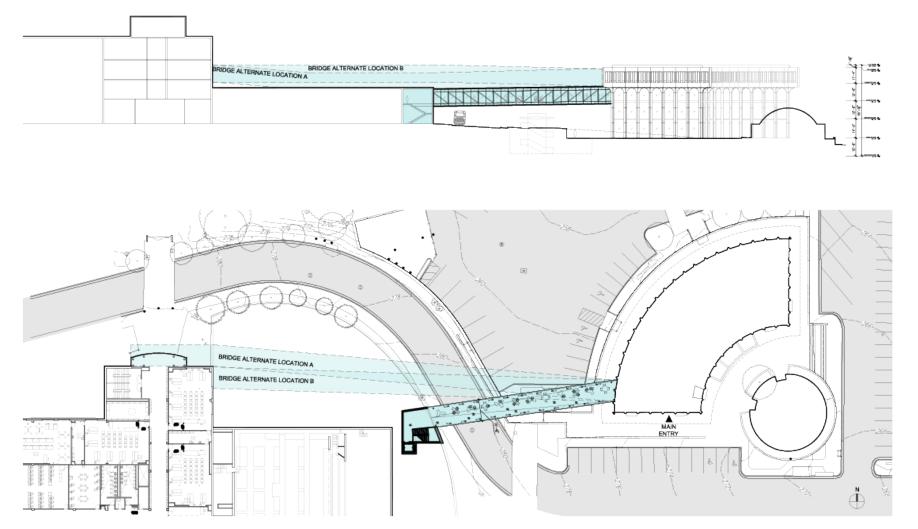


Bridge Design: Logistics + Security at the Ground Plane





Bridge Design: Concepts





7 Draft Schematic Design Building Design

Change of Use

The minimum required fire resistance rating of the structure increases





Existing Façade Elements

Precast Concrete Panels : — At Fourth Floor

Plaster Exterior Soffit: = At Fourth Floor

Precast Arched Column Cap: At First, Second and Fourth Floors

Precast Column Panels: At First, Second and Fourth Floors

Three-story Curtainwall: At First, Second and Fourth Floors

Terrace: At First Floor Terrace Guardrail: Metal guardrail on Precast Cap Painted CIP Concrete Plinth: Ground Floor

Small Punched Windows: = Vision Glass

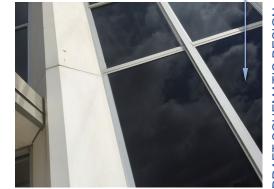


Narrow Punched Windows: Vision Glass with Operable Vent

Curtainwall Spandrel Glazing: Black Back-painted Glass between Floors

Curtainwall Vision Glazing: Single-paned Vision Glass

Black Back-painted Glass at Curtainwall: Located at MEP Rooms, Storage, RR's, + Stairwells





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DRAFT SCHEMATIC DESIGN

Envelope Improvements

Existing Façade Concept Reuse

- Concept of glass between white concrete forms

Curtainwall Replacement

- Response to internal program daylight, views and glare mitigation
- Response to external environment energy efficiency
- Operable Vents
 - Minimum of two operable vents per classroom
 - Minimal visual impact on exterior

Ground Floor Openings Enlargement

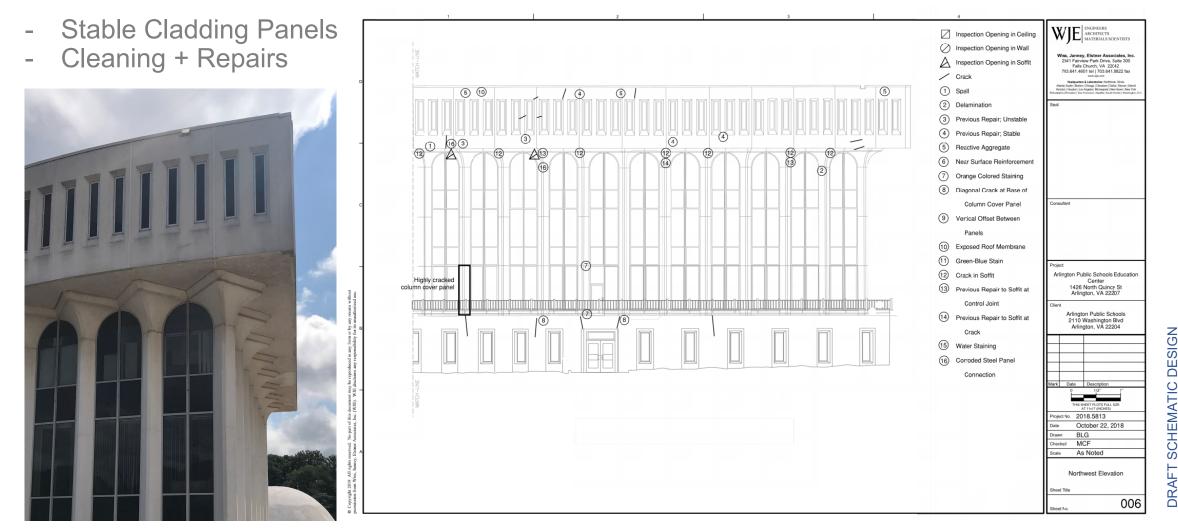
- Response to program change from service spaces to classroom spaces

Fourth Floor Openings Enlargement

- Response to program and environment



Existing Envelope Materials



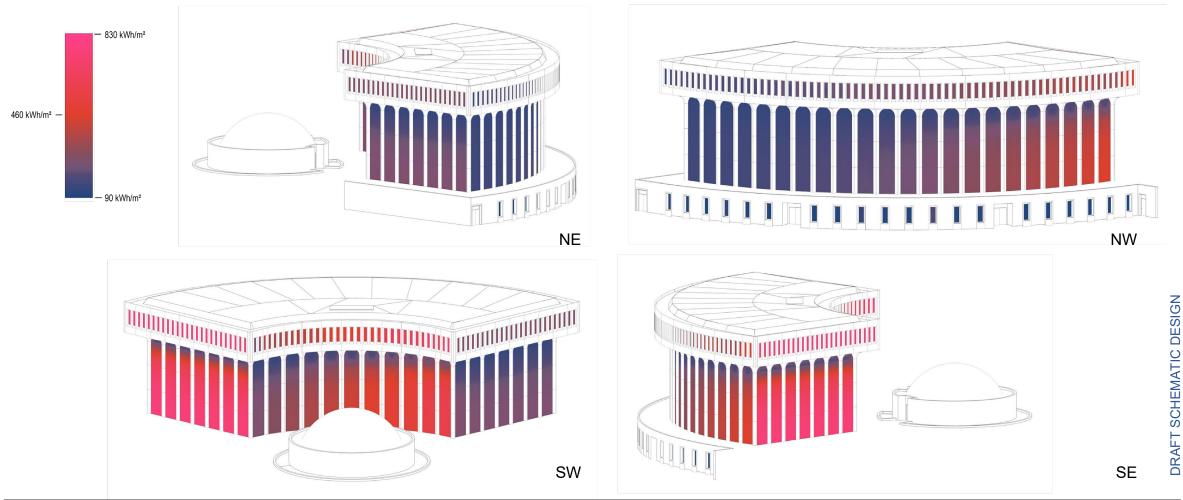


SCHEMATIC

DRAFT

Solar Insolation

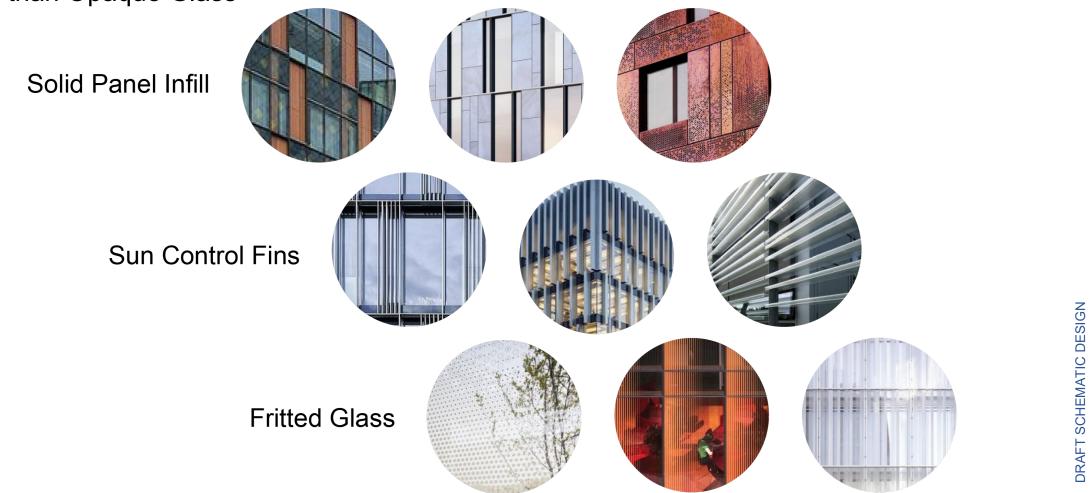
Annual Cumulative Gains





Sun Control Options for Curtainwall

Other than Opaque Glass





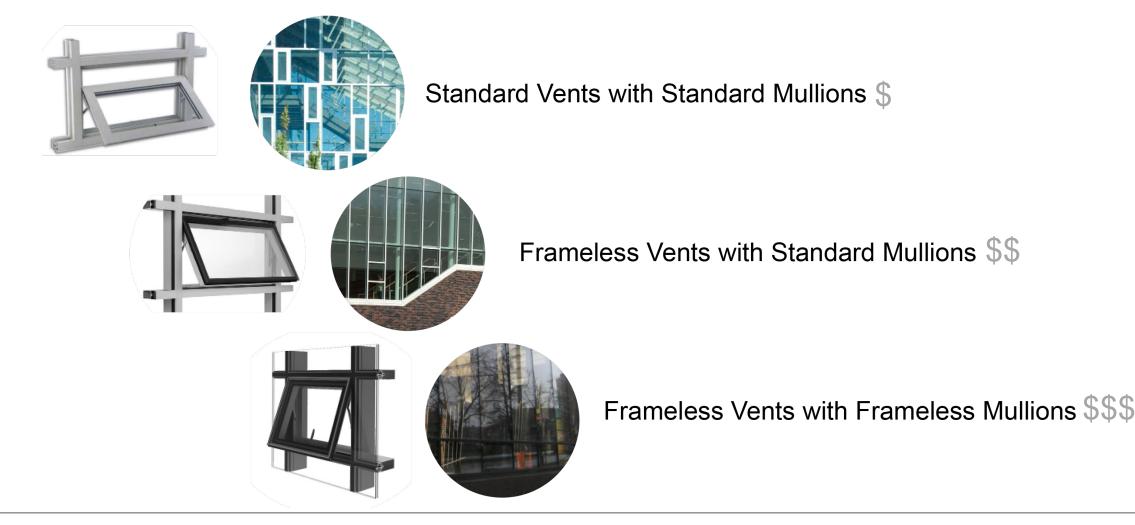
Fritted Glass

Examples





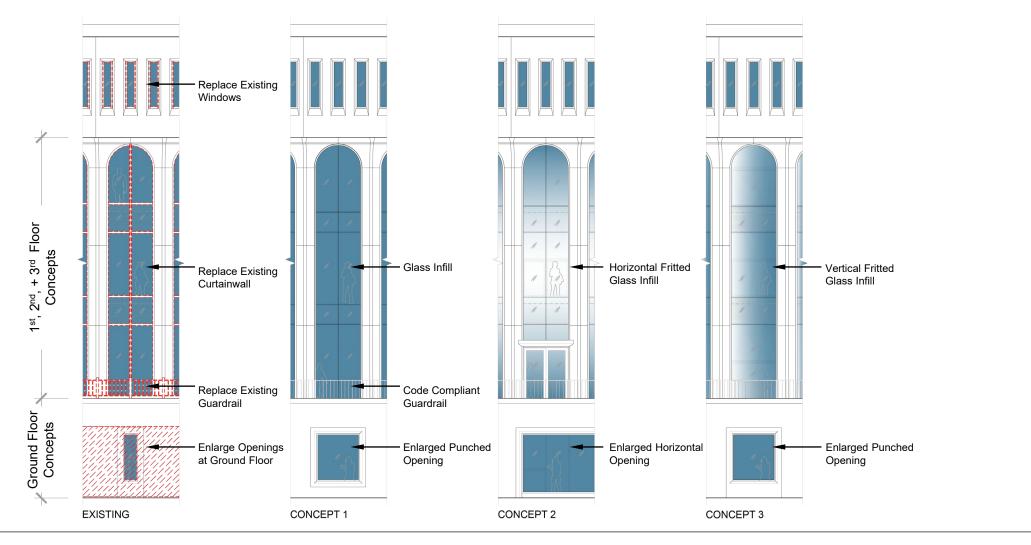
Operable Vents (Window Units for Ventilation)





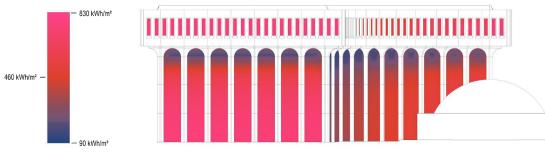
DRAFT SCHEMATIC DESIGN

Glazing Replacement Study

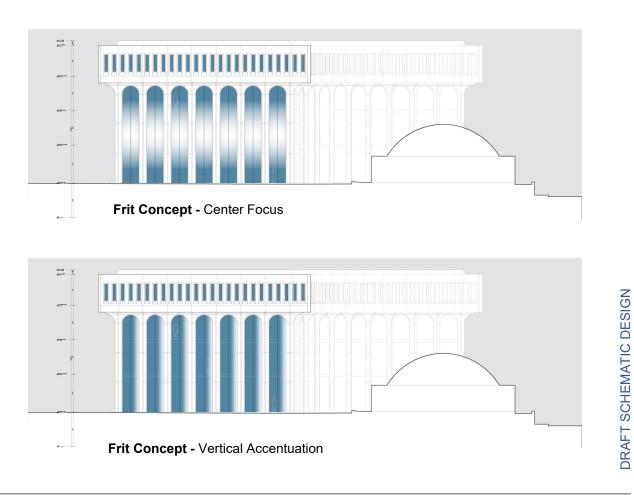


DRAFT SCHEMATIC DESIGN

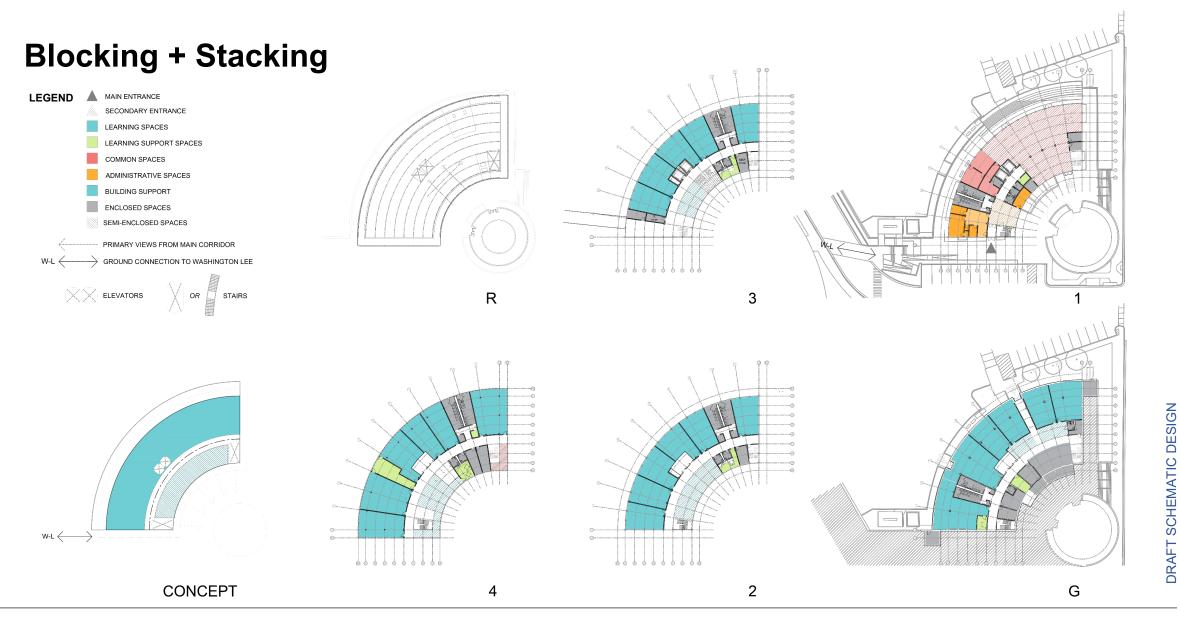
Frit Pattern Study



ANNUAL CUMULATIVE INSOLATION - North Elevation

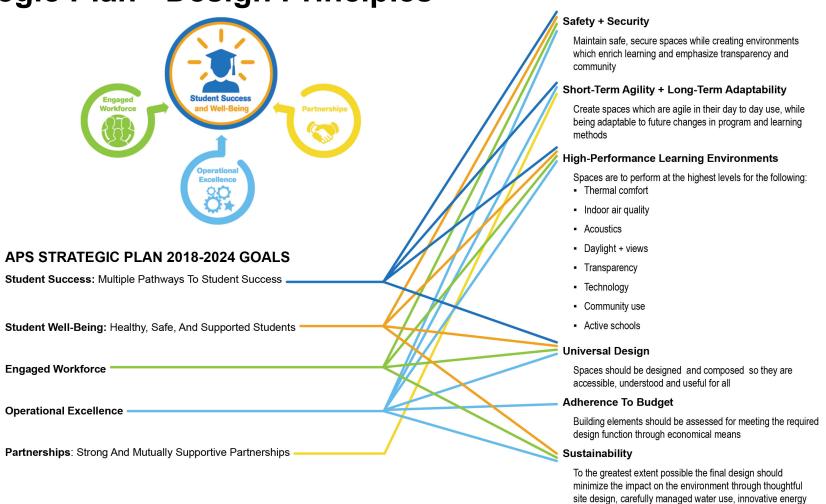








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8 Committee Comment on Draft Schematic Design

9 Public Comments

10 Next Steps + Adjourn

David M. Brown Planetarium

NEXT STEPS + ADJOURN

Adjourn

- As a reminder the APS Project Manager is: Steve Stricker (703) 228-7749 <u>steven.stricker@apsva.us</u>
- 2. Public meeting dates and past presentations are posted on the APS project website: <u>https://www.apsva.us/education-center-reuse/</u>
- 3. To provide feedback and/or comments to APS use: engage@apsva.us

