



# Lexington High School

Site, Safety & Security  
Focus Group – Mtg. #2

02.09.2024

*Setting the benchmark for future projects in the Commonwealth, and across the country, for innovative design, efficiency, sustainability, and positive impact for the community.*



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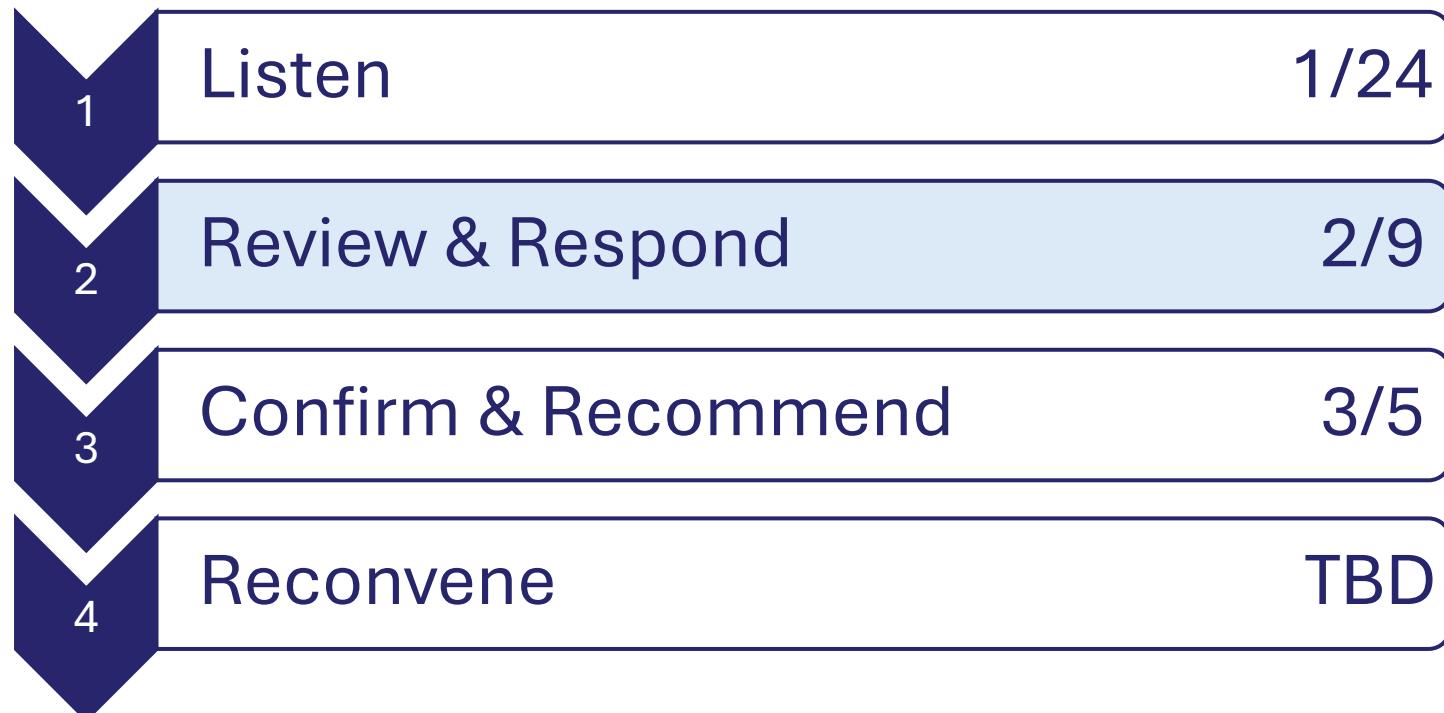
# Meeting #2 Agenda

- » Review Focus Group Agenda & Objective
- » Topics and Priorities Based on Community Input
  - Discussion of Topics and Possibly Conflicting Priorities
- » Additional Topics to be Explored
- » Next Steps



# Focus Group Objective

Discuss site design for traffic, circulation, safety and security. Includes conversations about parking, driveways and circulation, fields, and offsite improvements and coordination with Town Departments



# Topics and Priorities Based on Community Input

# Topics and Priorities

- Topic #1: Balancing Open Campus Tradition/Community Access with Safety Concerns – *Conflicting Priorities?*
- Topic #2: Encouraging Multimodal Transportation – *Conflicting Priorities?*
- Topic #3: Incorporating Green Infrastructure – *Conflicting Priorities?*
- Topic #4: Attempting to Minimize Disturbance Footprint – *Conflicting Priorities?*
- Topic #5: Managing Parking, Traffic and Circulation - *Conflicting Priorities?*
- Topic #6: Acknowledging that there are Ecologically Valuable Communities on the Site
- Topic #7: Ensuring Student Safety During Construction
- Topic #8: Creating a Unique Sense of Place and Site Design Aesthetic that is Grounded in Your Community



# 1. Balancing Open Campus & Community Access with Safety

## *What We Heard...*

**safety concerns about performing arts entrance**

**community high school balance with safety**

**partner to make sure that the end result improves experience with community  
understanding timeline for getting access back**

**make gymnasium available**

**site access separate for community**

**compartmentalized**

**who can use what parts of the building at what times**

**maximize community use**

**approached as a performing arts center that happens to be attached to the school**

**separation between public access blocked off**

performance spaces are used for school and community safety concerns about performing arts entrance

**secure educational spaces**

**technology for door access**

**community access for after school hours**

# 1. Balancing Open Campus & Community Access with Safety

*What We Heard...*

multiple access to site  
central office entrance

LABBB program – transportation considerations

building security/student safety  
visual on when people enter the building and formal place to sign in

recreation facilities

METCO program – touchpoint when they get to school after long commute

consider entrances and exits  
should have a lobby

# 1. Balancing Open Campus & Community Access with Safety



# 1. Balancing Open Campus & Community Access with Safety

## CPTED (Crime Prevention Through Environmental Design) Principles

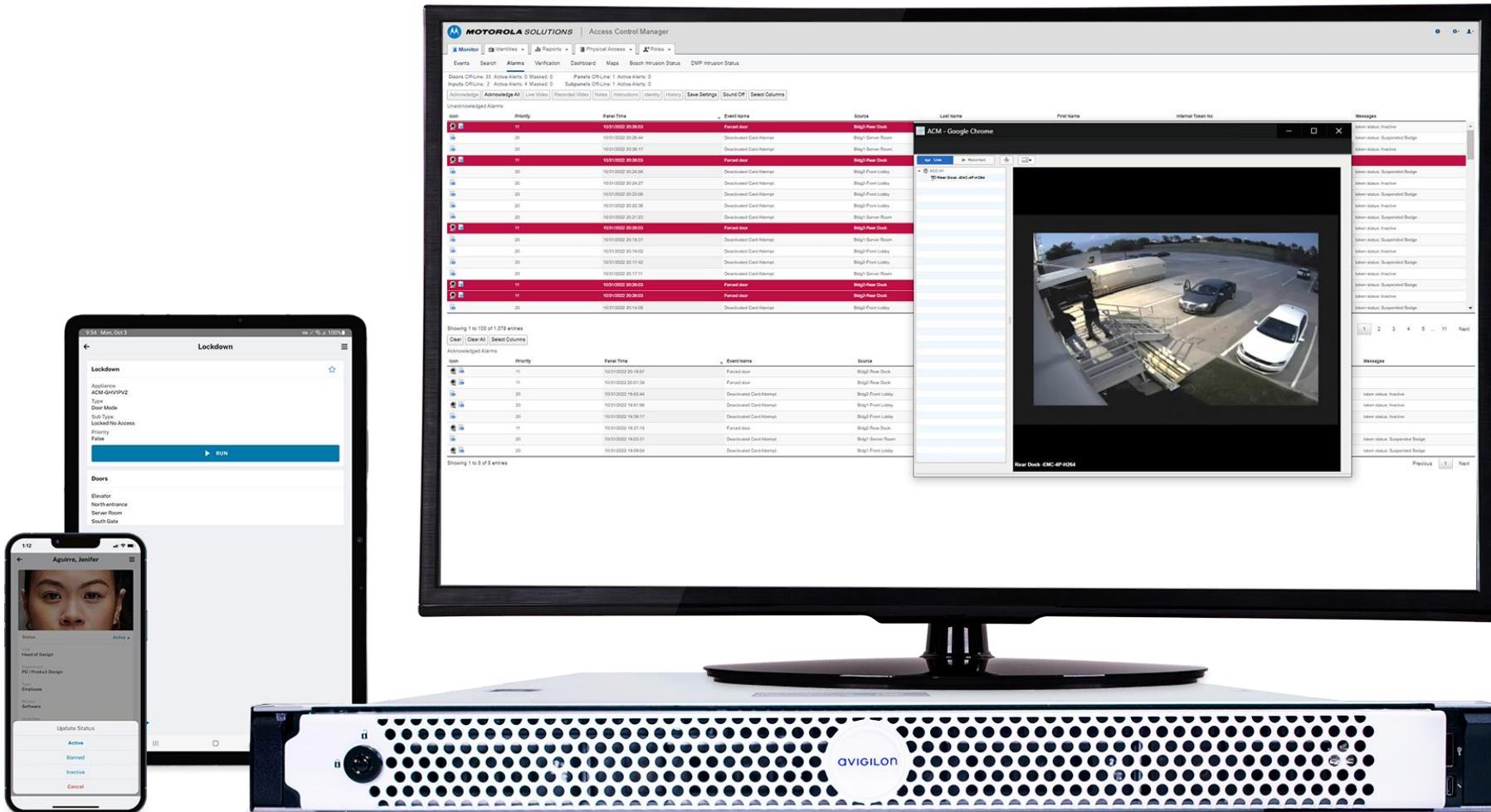


Crime Prevention Through Environmental Design (CPTED) is an approach that focuses on designing the physical environment to reduce opportunities for crime and enhance safety. The success of a CPTED plan relies on a holistic approach, combining physical design elements with policies, procedures, and community involvement. Regular evaluations and adjustments should be made to adapt to changing circumstances and emerging threats.

When developing a CPTED plan for a school, several design considerations should be taken into account:

1. Natural Surveillance
2. Natural Access Control
3. Territorial Reinforcement
4. Maintenance and Visibility
5. Activity Support

# 1. Balancing Open Campus & Community Access with Safety Security Management Systems



# 1. Balancing Open Campus & Community Access with Safety

## *Access Control Systems*



# 1. Balancing Open Campus & Community Access with Safety

## *Access Control Door Components*



Card Reader – Standard,  
Mullion and Keypad



Recessed Door Contact



Electric Hinge



Exit Device

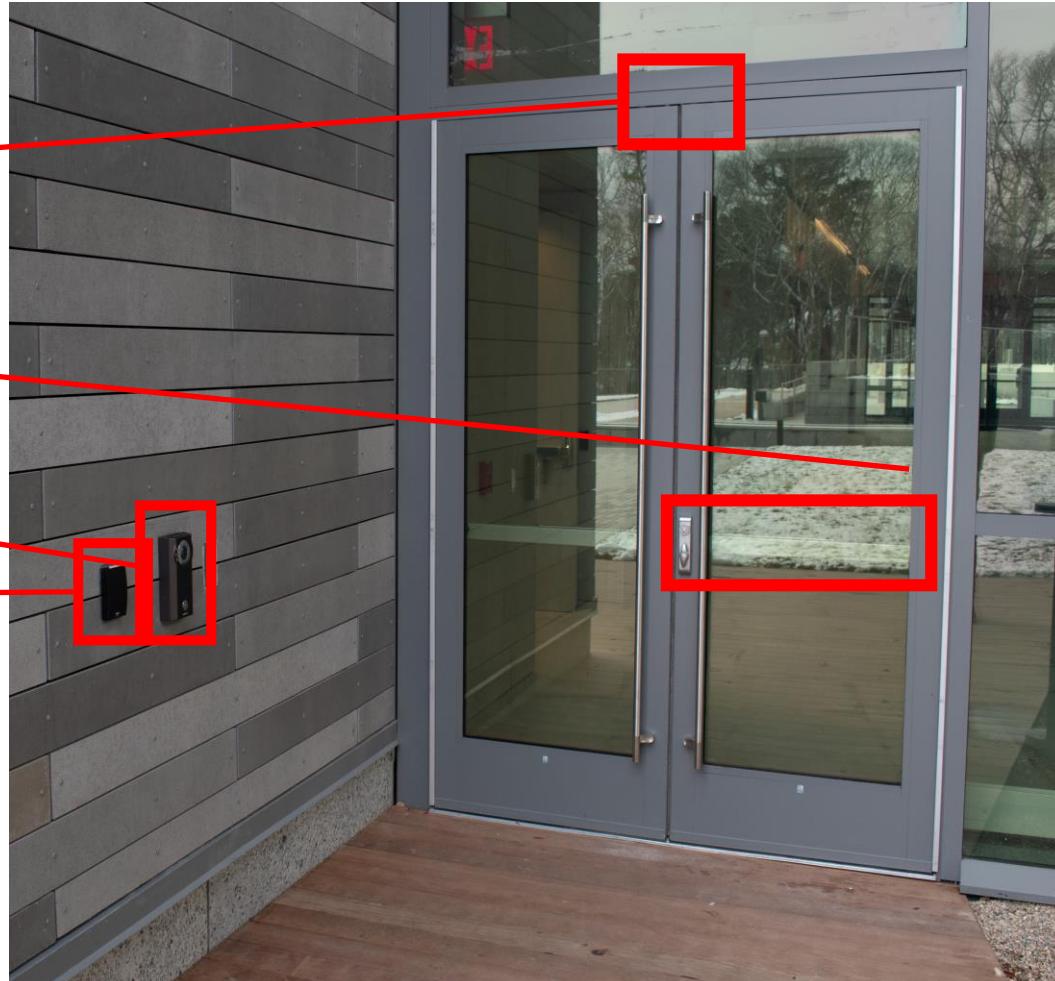


Electric Lock

# 1. Balancing Open Campus & Community Access with Safety

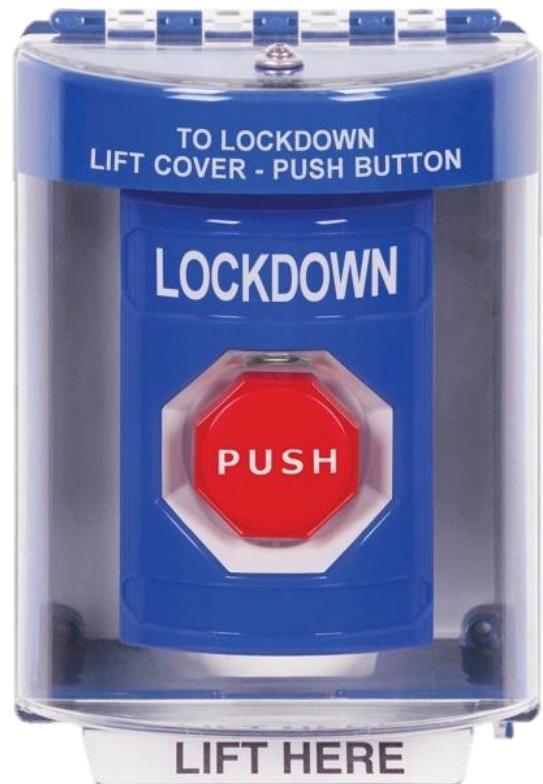
## *Access Control Door Hardware*

- Door Contact(s)
- Electric Hinge
- Video Intercom
- Card Reader
- Electric Lock or Exit Device (*if door is in egress path*) with Request to Exit Switch built into the hardware set.



# 1. Balancing Open Campus & Community Access with Safety

## *Lockdown & Duress Button*



### Lockdown Button

Triggers an event in the access control system, which will lock all electrified doors, disable the card readers and any door release functions. Credentials of authorized personnel shall continue to work on all readers. First responders are alerted.



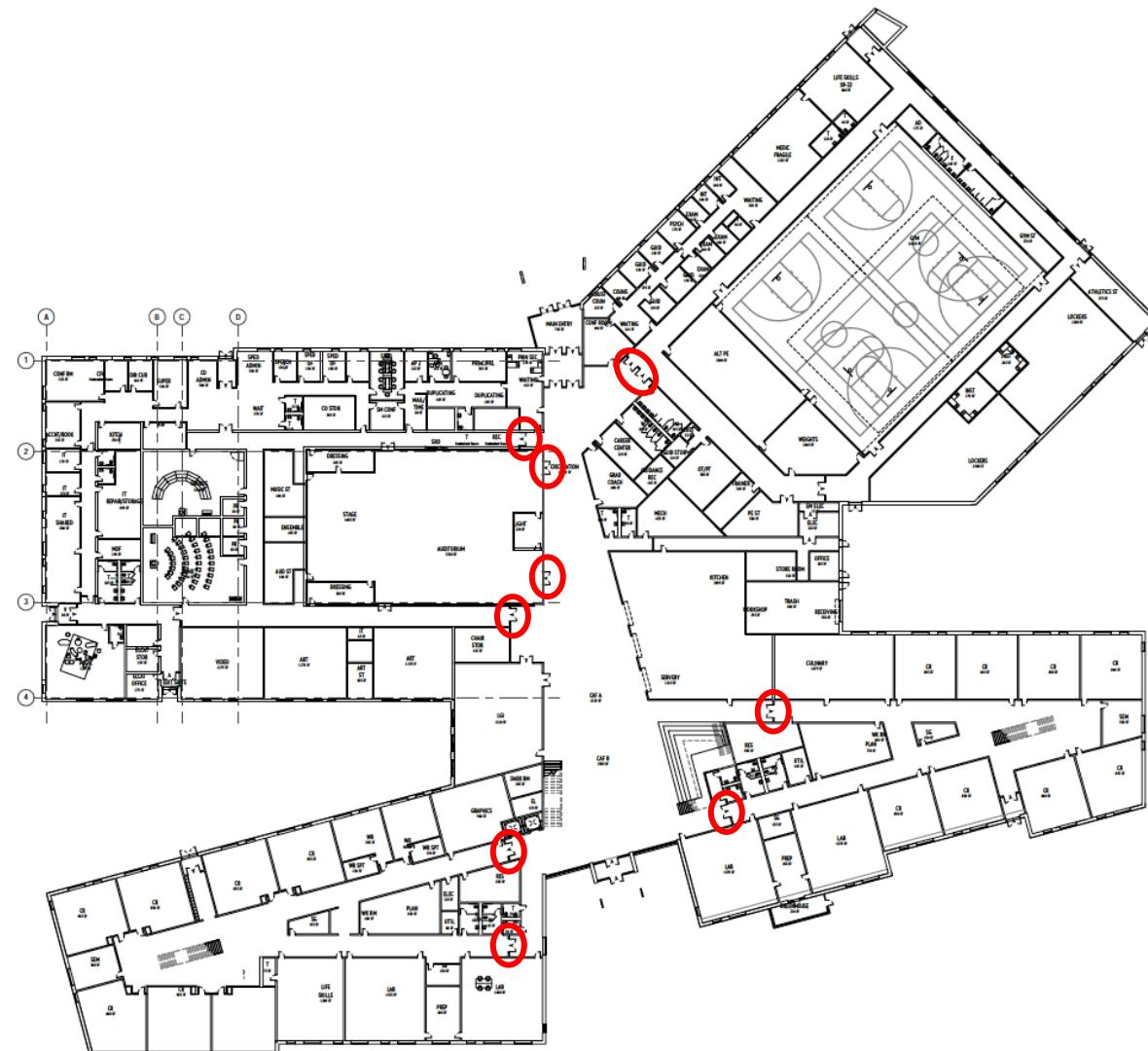
### Duress Button

Triggers a silent alarm to staff only or to include first responders.

# 1. Balancing Open Campus & Community Access with Safety

## *Lockdown Sequence*

1. Upon lockdown activation doors that are normally held open will automatically close and secure, and doors that are normally unlocked will automatically lock.
2. All secured doors will require a credential or key to gain access.
3. Students and staff will always have the ability to egress from a space. Lockdown doors will only prevent ingress.
4. First responders will obtain a credential or key from the Knox Box.



# 1. Balancing Open Campus & Community Access with Safety

## *Intrusion Detection System*



# 1. Balancing Open Campus & Community Access with Safety

## *Video Surveillance System*



# 1. Balancing Open Campus & Community Access with Safety

## *Video Assessment Cameras*



**Fixed Camera**  
*Indoor/ Outdoor*  
*Varifocal fixed view lens.*



**Multi-Lens Camera**  
*Indoor/Outdoor*  
*360-degree view at all times. Lenses can also be moved to provide 180, 270 and custom views.*

# 1. Balancing Open Campus & Community Access with Safety

## *Security Communication System*

### Communication

- Empower your security team by providing tools such as two-way communication, cameras and mobile apps.
- Communicate between hallways, common areas, exterior entrances and site elements.
- Door stations provide calling points for parents/visitors to request access or for emergency communication.



# 1. Balancing Open Campus & Community Access with Safety

## *Window Security*



Window Blinds



Window Security  
Film



Ballistic Resistant Glass

# 1. Balancing Open Campus & Community Access with Safety

*What We Heard...*

**know where each child is**  
encourage outdoor access

students and staff should be able to access outside

**enclosed outdoor space**

be careful about data security risk

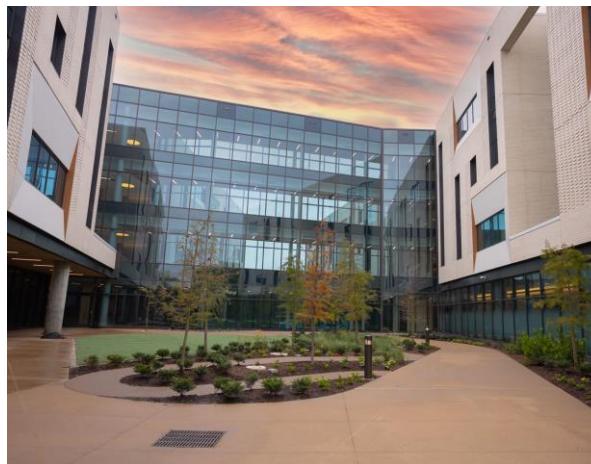
no one should be able to know where children are using data

you can have an interior quad that is outdoors – not accessible to outside people

**outdoor focused school**

need to balance between open campus culture and security

# 1. Balancing Open Campus & Community Access with Safety



# 1. Balancing Open Campus & Community Access with Safety



## 2. Encouraging Multimodal Transportation

### *What We Heard...*

**limited parking**  
encourage busing

**trail connections**  
campus dedicated bus stop

better bicycle network accessibility  
**public transportation**

**dedicated carpool areas**

adding safe bike lanes

**favor multimodal access**

**disfavor students arriving by car**

promote biking

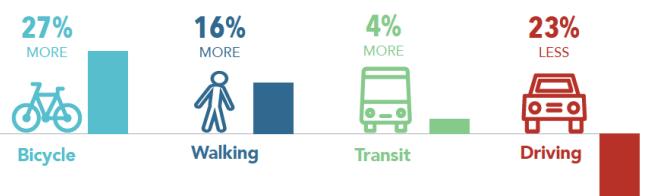
**utilize lincoln park parking for students**

**promote walking**

## 2. Encouraging Multimodal Transportation



CHANGE IN YOUNG ADULTS' TRAVEL PATTERNS



## 3. Incorporating Green Infrastructure

## ***What We Heard...***

stormwater water  
retain stormwater on-site

# solar orientation

serve as educational components Sewer

**school bus batteries to power school**  
minimize embodied carbon

# less impervious cover

reduce operating cost of building net positive

green infrastructure

low impact development design

# parking canopy

green roof  
consider where to have parking

# upgrading drainage

### 3. Incorporating Green Infrastructure

*What We Heard...*

**battery storage**

**building orientation**

**energy storage**

help with problems that site presents

**heating/cooling loads**

opportunity to save town \$1M/year

**charging stations**

EV charging and parking

**interaction between parking and EV charging**

**utility connections**

using natural resources

**maximizing solar**

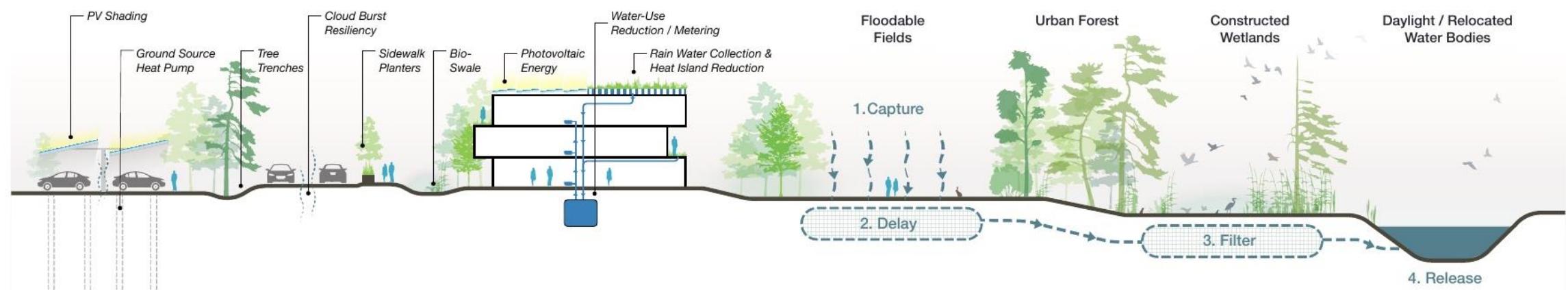
## 3. Incorporating Green Infrastructure



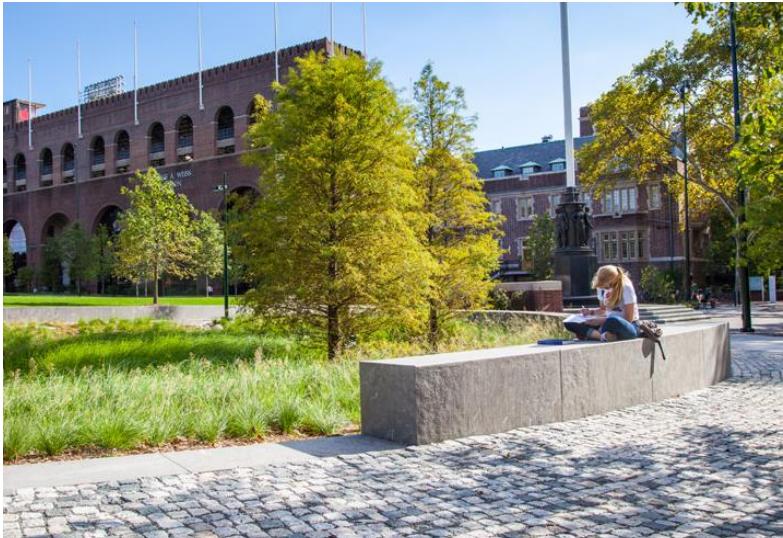
STREETS & PARKING

BUILDINGS

OPEN SPACES



### 3. Incorporating Green Infrastructure



## 4. Minimizing Disturbance Footprint

*What We Heard...*

preserve ground space

**stack parking instead of spreading it**

**taller, not wider**

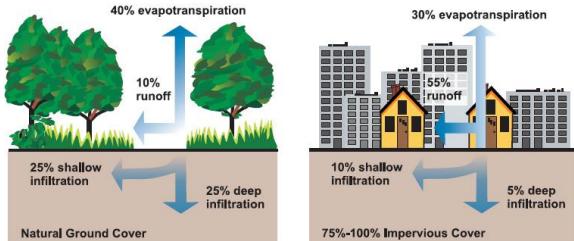
minimize footprint of facility

more stories rather than larger footprint

# 4. Minimizing Disturbance Footprint



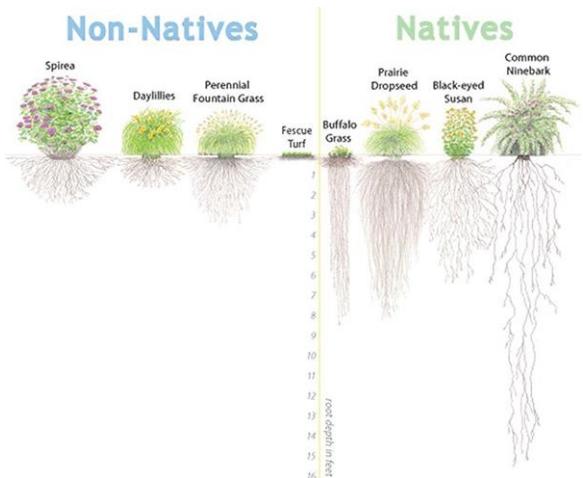
establishing vegetation and soil protection zones (VSPZ)



minimizing impermeable paving



minimizing heat island effect



using native plantings

reducing water usage

testing of soils



protecting mature trees

dark skies compliance



controlling water run-off

controlling water quality

## 4. Minimizing Disturbance Footprint

Existing Lexington High School Site



## 5. Managing Parking, Traffic & Circulation

*What We Heard...*

turning radius  
mitigate neighborhood traffic

focus forward about how transportation is evolving

education about what we should anticipate seeing in the future

EV charging

have parking for patrons of shows as well as tractor trailers with equipment

thoughtful circulation design

buses used as battery storage

site access

## 5. Managing Parking, Traffic & Circulation



## 6. Ecologically Valuable Communities on the Site

### *What We Heard...*

looking at native habitats  
maximize tree canopy  
preservation of trees from a site design perspective

maintaining landscape  
**model land stewardship**  
**ecologically fragile site**

opportunities to create a more holistic wetland

promote public shade

## 6. Ecologically Valuable Communities on the Site



## 7. Ensuring Student Safety During Construction

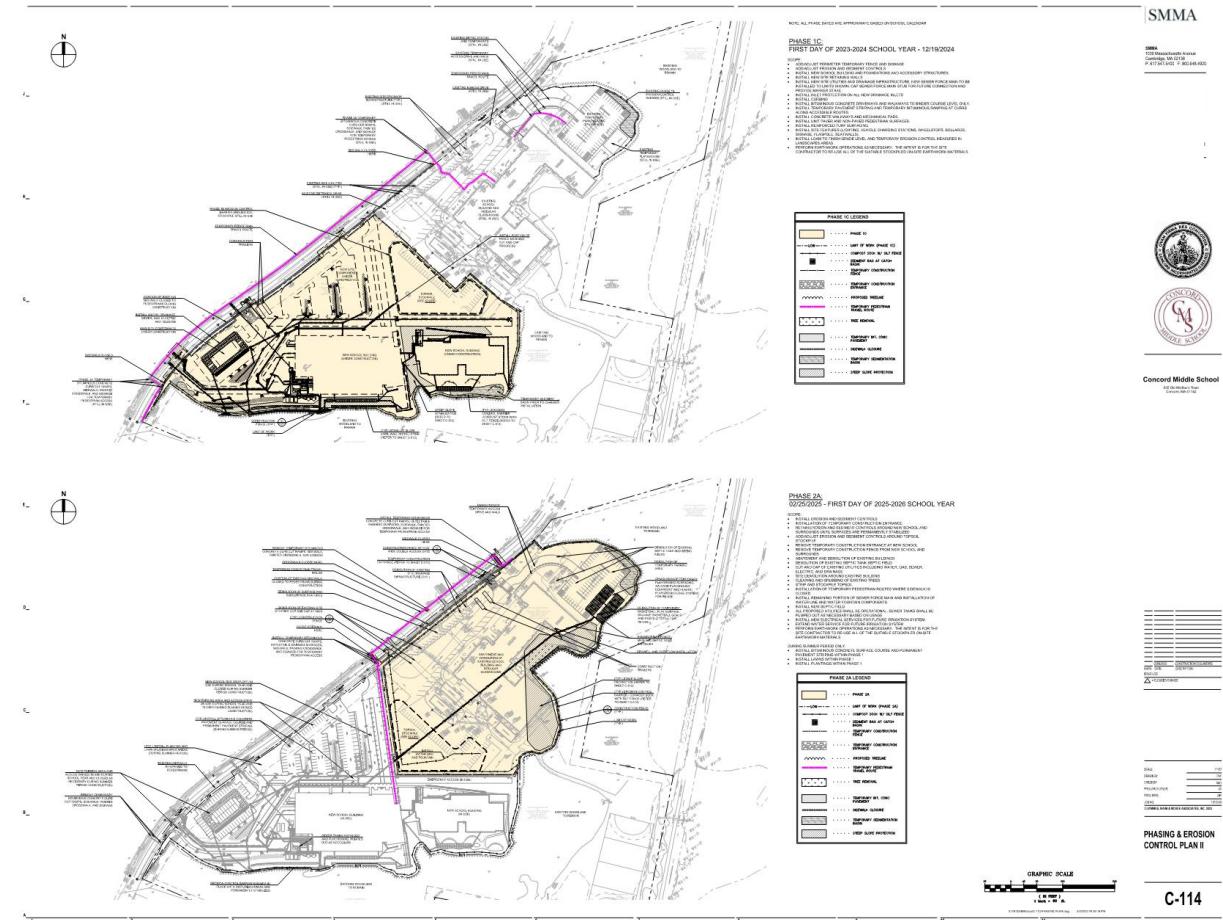
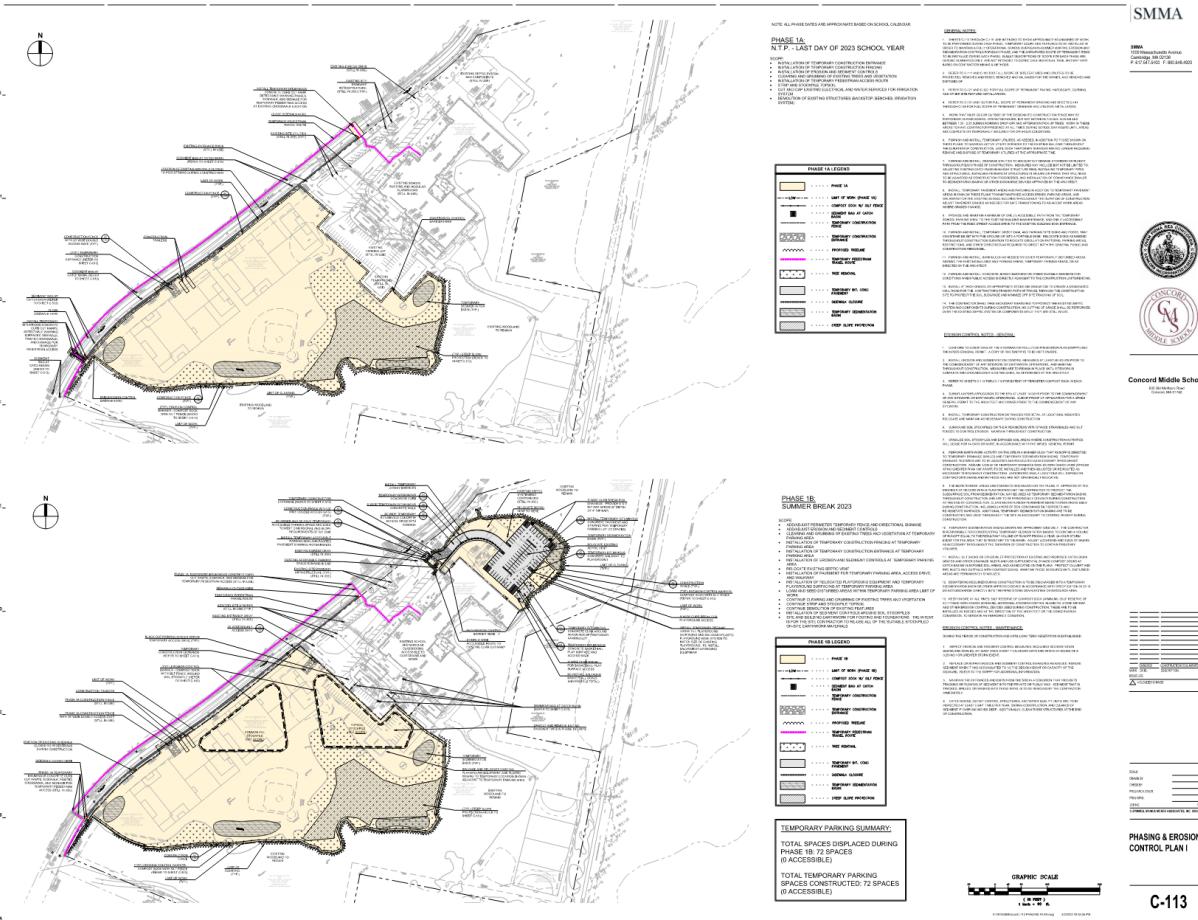
### *What We Heard...*

student experience during construction  
construction separate from students

**draw in security professionals during this process and in this focus group**

temporary condition will last majority of high school experience  
fire and police construction access

## 7. Ensuring Student Safety During Construction



## 8. Creating a Unique Sense of Place and Design Aesthetic that is Grounded in Your Community

*What We Heard...*

### plant selection

connectivity with recreation elements  
campus must have a sense of place

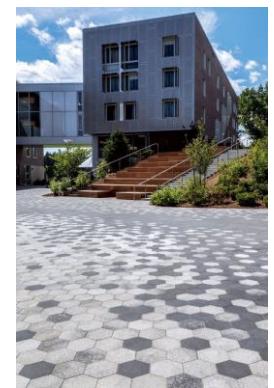
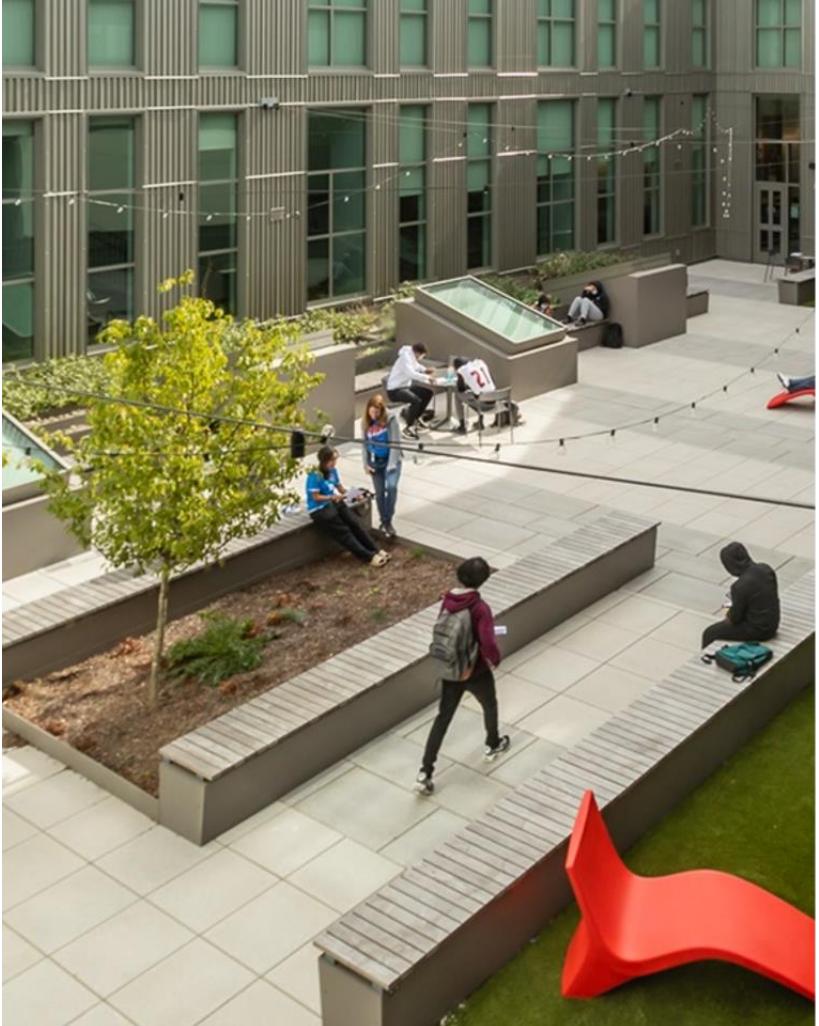
look at the aesthetic impact of the building

### intelligent site development

design has to work for students

how the outdoor spaces tie into social spaces

## 8. Creating a Unique Sense of Place and Design Aesthetic that is Grounded in Your Community



# Additional Topics to be Explored

# Next Steps

# What to Expect in Meeting #3

## **Objective**

Based on discussions in meetings #1 and #2, the design team will present some draft recommendations to be shared to the SBC. The focus group will provide feedback and finalize recommendations so they can be shared with the SBC.

## **When & Where?**

Friday, March 5<sup>th</sup>, 2024, 1:00-3:00 PM

Estabrook Auditorium, Cary Memorial Building



# Thank You!



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