

METHACTON SCHOOL DISTRICT



HIGH SCHOOL CAMPUS PROJECT Board Update Presentation

18 JUNE 2024

SCHRADERGROUP

BOARD UPDATE

APRIL

MAY

JUNE



BOARD UPDATE

APRIL

MAY

JUNE



PROGRAM

	CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
A. AREA SUMMARY				
1 Target Program Area		214,100 nsf	1.5 *	321,150 gsf
2 Existing Area in Plan				- gsf
Addition Area in Plan				- gsf
Total Area in Plan		- nsf	TBD *	- gsf
Difference		214,100 nsf		321,150 gsf
		District Administrative Offices		11,625
		TOTAL		332,975 gsf

* Note that the PDE allowable grossing factor is 1.50 however some of those spaces are provided in Area 7

B. CAPACITY SUMMARY

1 Goal Student Capacity	1,600	students
2 Teaching Stations	137	1,675 students
3 Utilization Factor	85%	
4 Effective Student Capacity	1,596	students

C. AREA ANALYSIS

1 Square Feet per student: Planned	201 s.f.	Does not include DAO Area
2 Square Feet per student: Goal	200 s.f.	
2 Square Feet per student: actual	TBD	

D. AREA COMPARISON (Program)

1 Learning Spaces	93,368	140,097 gsf
2 Admin & Staff	7,318	10,977 gsf
3 Community Spaces	21,170	31,755 gsf
4 Media Center Spaces	8,610	12,915 gsf
5 Fitness & Wellness	55,204	82,806 gsf
6 Performing Arts	20,100	30,150 gsf
7 Facility Support	8,300	12,450 gsf
8 District Admin	7,950	11,625 gsf
TOTAL GSF	222,050 nsf	332,975 gsf

332,975 S.F.

PROGRAM

	CAPACITY students	NET SQUARE FEET total	GROSSING factor	GROSS SQUARE FEET total
A. AREA SUMMARY				
1 Target Program Area		230,220 nsf	1.5 *	345,330 gsf
2 Existing Area in Plan				- gsf
Addition Area in Plan				- gsf
Total Area in Plan		- nsf	TBD *	- gsf
Difference		230,220 nsf		345,330 gsf
			DAO	11,625
			TOTAL	357,155 gsf

* Note that the PDE allowable grossing factor is 1.50 however some of those spaces are provided in Area 7

B. CAPACITY SUMMARY

1 Goal Student Capacity	1,600	students
2 Teaching Stations	147	2,195 students
3 Utilization Factor	85%	
4 Effective Student Capacity	1,668	students

C. AREA ANALYSIS

1 Square Feet per student: Planned	185 s.f.	Does not include DAO Area
2 Square Feet per student: Goal	200 s.f.	
2 Square Feet per student: actual	TBD	

D. AREA COMPARISON (Program)

1 Learning Spaces	104,638	156,957 gsf
2 Admin & Staff	7,318	10,977 gsf
3 Community Spaces	21,170	31,755 gsf
4 Media Center Spaces	8,750	13,125 gsf
5 Fitness & Wellness	57,944	86,916 gsf
6 Performing Arts	22,100	33,150 gsf
7 Facility Support	8,300	12,450 gsf
8 District Admin	7,950	11,625 gsf
TOTAL GSF	238,170 nsf	357,155 gsf

357,155 S.F.

METHACTON SCHOOL DISTRICT

District Administration Relocation

TOTAL PROGRAM SUMMARY - DRAFT

NSF

Grossing Factor

GSF

Total

DRAFT 2024.04.15

1.0	EDUCATIONAL SERVICES	3682	40 %	1367	5049
2.0	BUSINESS SERVICES	2828	40 %	989	3817
3.0	COMMON SPACES	1440	21 %	444	1884
	Subtotal	7950	34 %	2800	10750
	Building GSF @ 10%			1075	
	TOTAL MAIN BUILDING	7950		3875	11825

11,825 S.F.

BOARD UPDATE

APRIL

MAY

JUNE



MOUNT SI HIGH SCHOOL
Snoqualmie, WA

DISCOVERY HIGH SCHOOL
Camas, WA

FARMINGTON HIGH SCHOOL
Farmington, UT

CANYON VIEW HIGH SCHOOL
Maricopa Cty, AZ

ALEXANDRIA HIGH SCHOOL
Alexandria, MN

NEW TRIER TOWNSHIP HIGH SCHOOL
New Trier-Winnetka, IL

MORTON WEST HIGH SCHOOL
Berwyn, IL

OLATHE HIGH SCHOOL
OLATHE, KS

GODLEY HIGH SCHOOL
Godley, TX

ROCK RIDGE HIGH SCHOOL
MN

BEAVER DAM HIGH SCHOOL
Beaver Dam, WI

STATE COLLEGE AREA HIGH SCHOOL
State College, PA

COLUMBIA CITY HIGH SCHOOL
Columbia City, IN

GEORGE MASON HIGH SCHOOL
Falls Church, VA

SAUGUS HIGH SCHOOL
Saugus, MA

SOMERVILLE HIGH SCHOOL
Somerville, MA

SPRINGFIELD HIGH SCHOOL
Springfield, PA

BOARD UPDATE

APRIL

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JUNE



WORCESTER TOWNSHIP MEETING TOPICS

Discussion

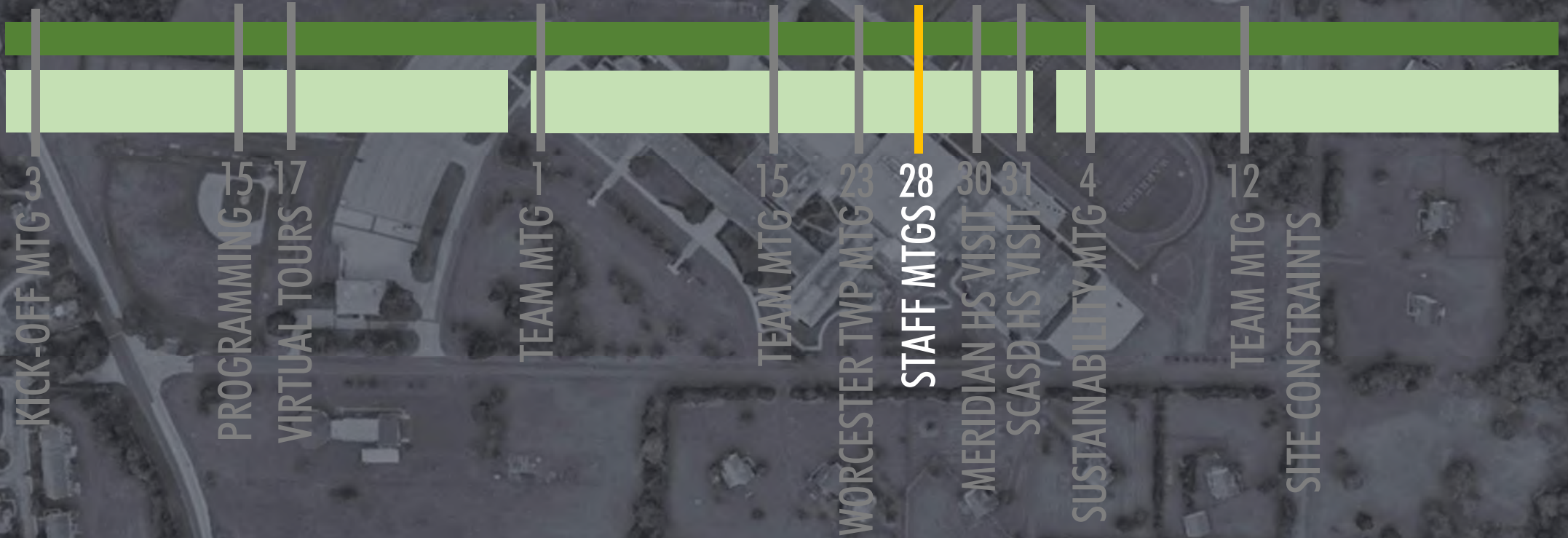
- Zoning Relief that may be needed:
 - Building height — 35 ft & 2.5 stories
 - Impervious surface — 40%
 - Parking lot(s) within building setbacks — 250 feet front yard
 - Building setback — 250 feet
 - Steep slope disturbance
- Public School is a use permitted by Conditional Use in AGR district
 - CU may or may not be needed since public school is existing use
- Worcester prefers a linear zoning approval for land development approval rather than concurrent approvals of zoning with LD.
- Parking is seen as challenging on site and off-site parking should be eliminated if possible. Prefer that the project should increase parking on the site. Traffic and speeding are also concerns.
- A bus access on Mill Road was discussed.
- The team is pursuing public sanitary sewer connection with the Grange Ave. Pump Station in Lower Providence as the most likely connection point.
- Stormwater design will be a key element of the site design as there is currently limited stormwater management that will need to be significantly upgraded to meet current regulations. The JV baseball field is being considered for a stormwater basin.
- A sketch plan will be submitted to the Township after School Board concept review and approval in Fall 2024.
- An engineered land development plan can be prepared for submission pending sketch review and zoning proceedings. Would like to target approximately February 2025 for this preliminary LD submission.

BOARD UPDATE

APRIL

MAY

JUNE



AUDITORIUMS

















GYMNASIUMS













NATATORIUMS









BOARD UPDATE

APRIL

MAY

JUNE



FACILITIES TOURED

PENNSYLVANIA

STATE COLLEGE AREA HIGH SCHOOL

State College, PA
(Toured May 31)

UPPER MERION AREA HIGH SCHOOL

King of Prussia, PA
(Toured by MSD previously)

SPRINGFIELD HIGH SCHOOL

Springfield, PA
(On the tour list but never made it due to time limitations)

AVON GROVE HIGH SCHOOL

West Grove, PA
(Toured by MSD previously)

MERIDIAN HIGH SCHOOL

Falls Church, VA
(Toured May 30)



FACILITY TOURS

- 01 UPPER MERION AREA HIGH SCHOOL
- 02 SPRINGFIELD HIGH SCHOOL
- 03 MERIDIAN HIGH SCHOOL
- 04 STATE COLLEGE AREA HIGH SCHOOL
- 05 AVON GROVE HIGH SCHOOL



FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

UPPER MERION AREA HIGH SCHOOL

King of Prussia, PA

Architect: SCHRADERGROUP

























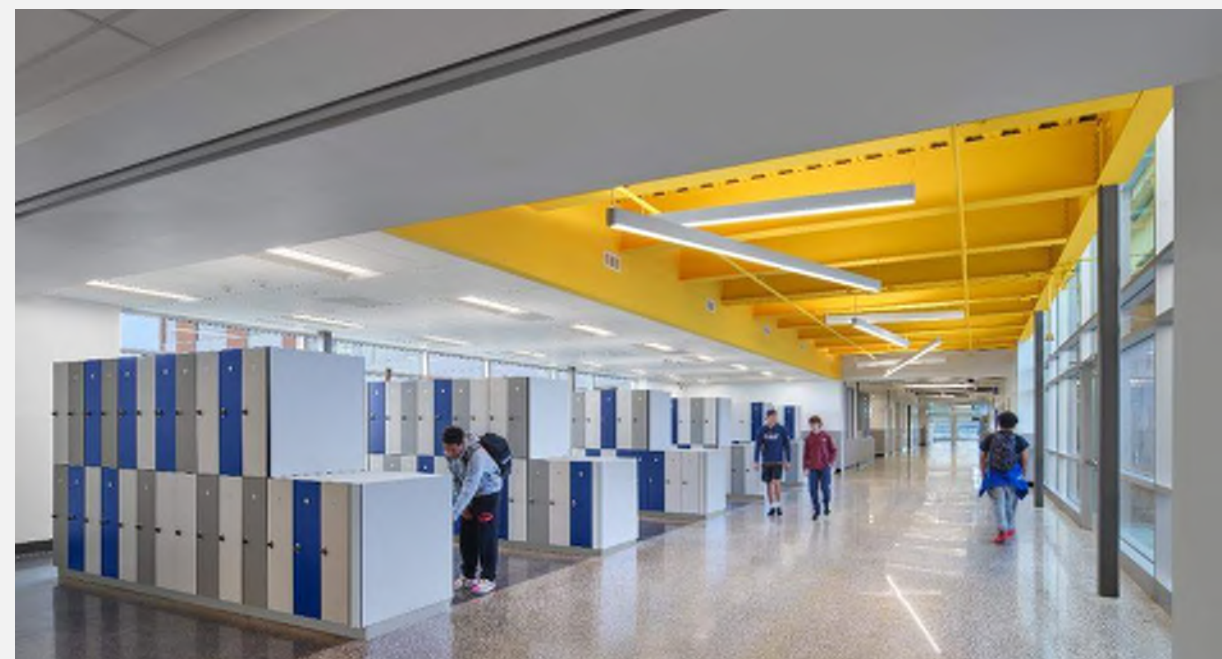
SCHNADDERGROUP

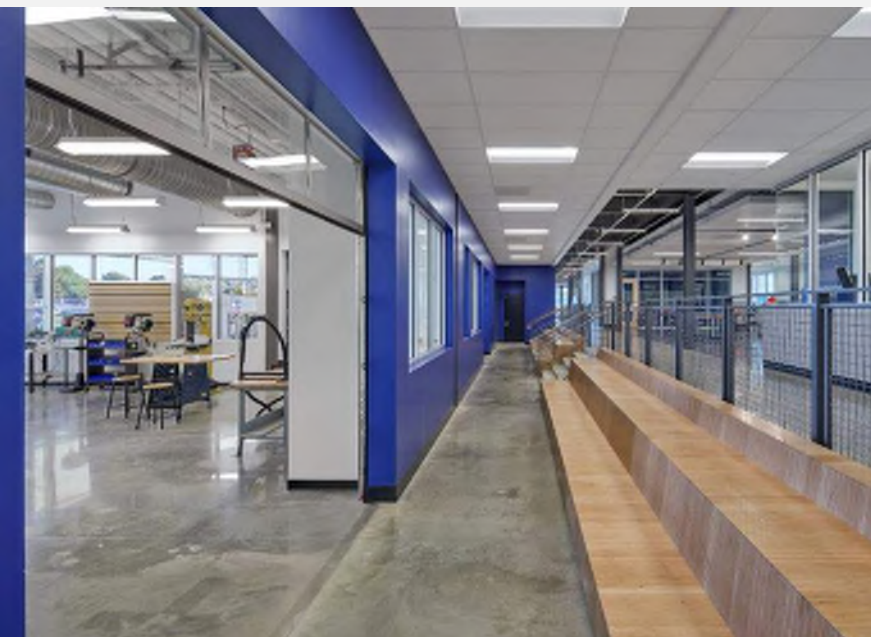


COUNSELING CENTER















FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 **SPRINGFIELD HIGH SCHOOL**

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

SPRINGFIELD HIGH SCHOOL

Springfield, Delaware County, PA

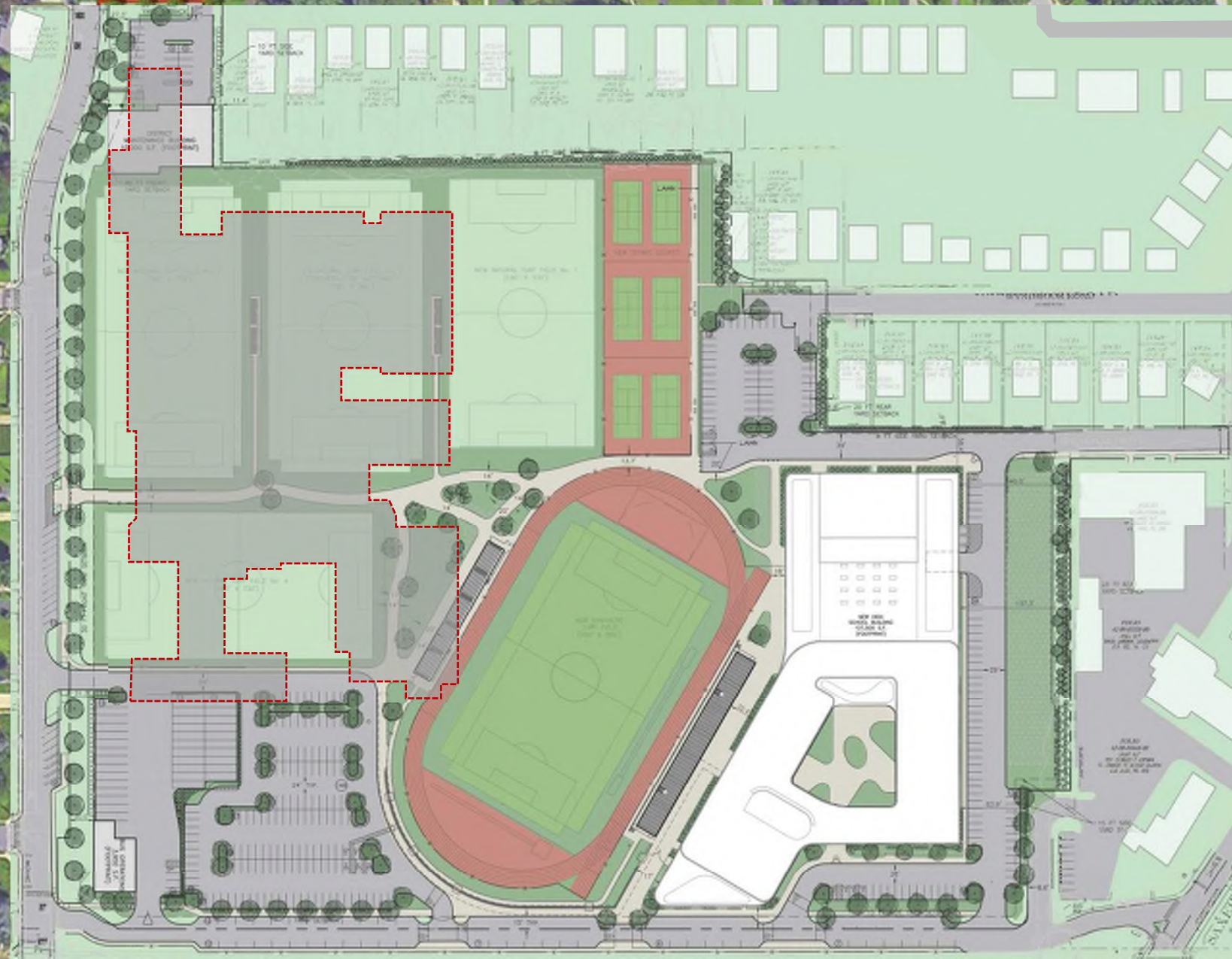
Architect: SCHRADERGROUP with Perkins & Will

before construction





master plan



SCHRAEDER GROUP

construction



complete





























FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 **MERIDIAN HIGH SCHOOL**

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

MERIDIAN HIGH SCHOOL

Falls Church, VA

Architect: Stantec







REFLECTIVE

EXCEL

STARTING LOCAL

"Start where you are. Use what you have. Do what you can."

THEN NOW NEXT

5
4
3
2
1
G
L



Image courtesy of Stantec website (Joseph Romeo photography)



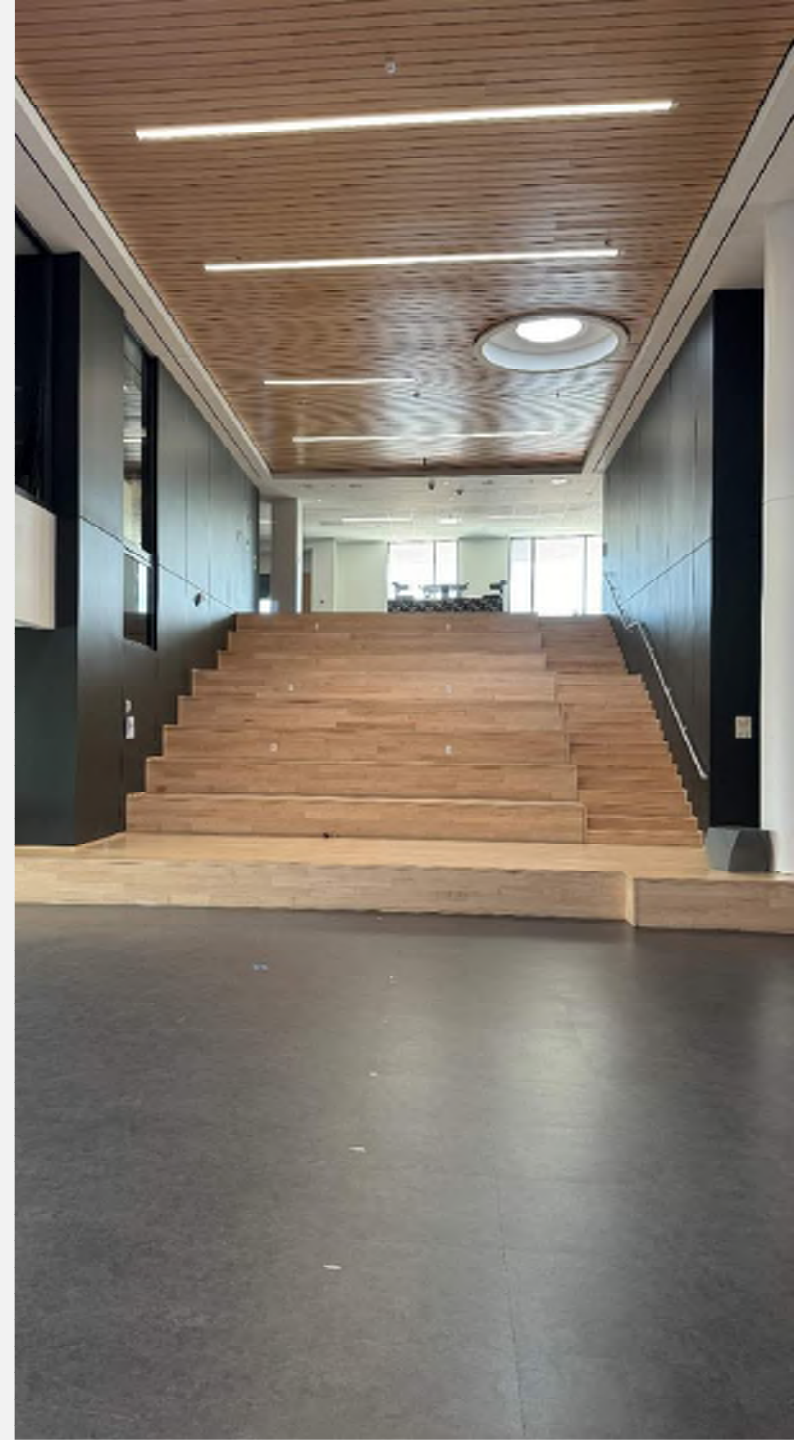
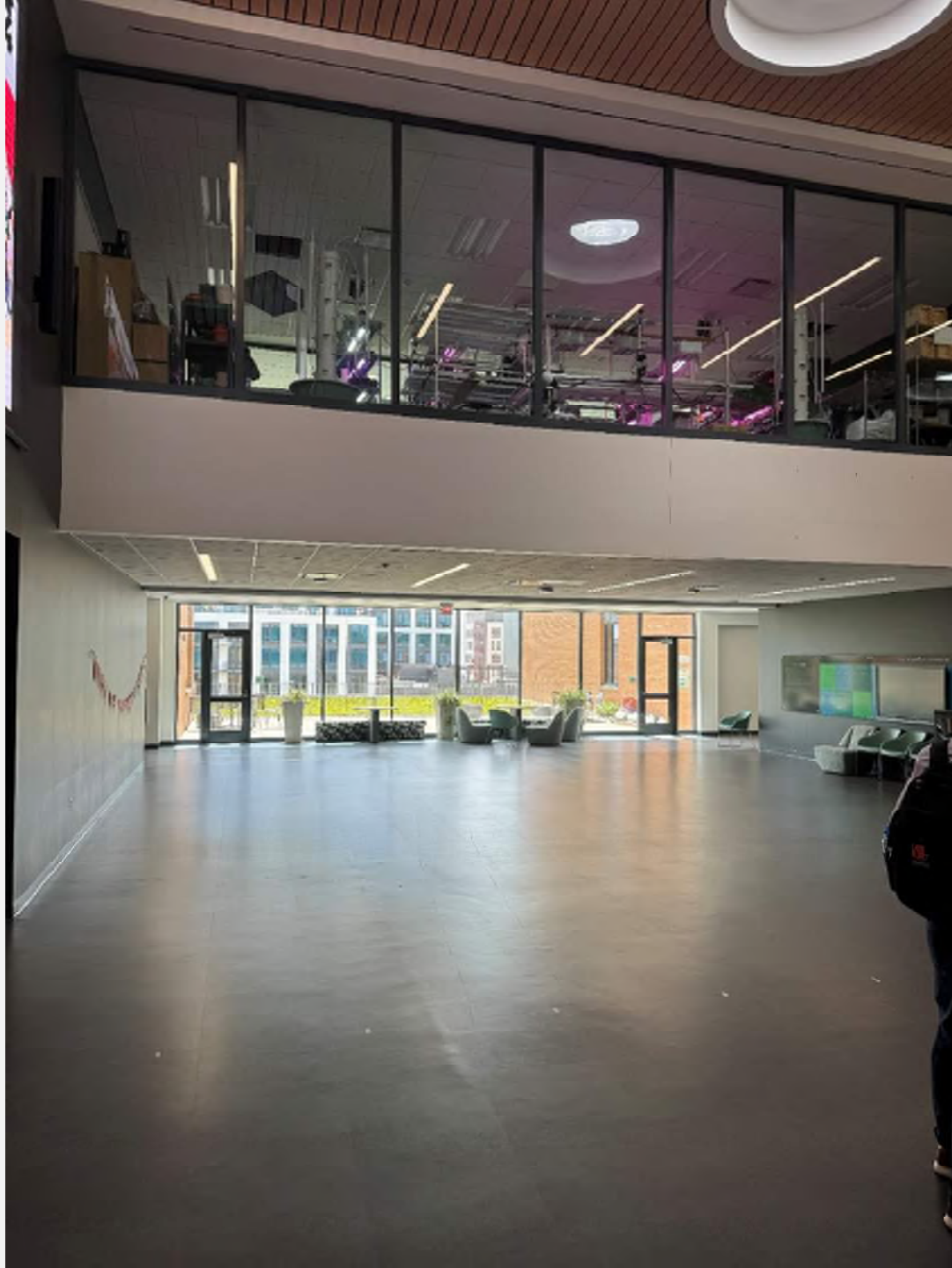






















PLEASE Wipe
DOWN ALL
TABLES AFTER
EACH USE

Hi
AOK {Social
Cultural
Biological}

























Image courtesy of Stantec website (Joseph Romeo photography)

MERIDIAN HIGH SCHOOL

Positive Reactions

- Library location/layout
- Toilet room arrangements. Toilet rooms were great- multiple solutions so you can go to whichever place you are comfortable.
- Tiered furniture in classrooms
- Open breakout spaces in classroom pods
- Abundant daylight throughout
- Variety of LGI spaces
- Sensory rooms (“zen room” concept)
- Learning stair design was effective — more centralized so is a gathering point — multi-use space with balcony — all functions off of it.
- Central configuration of academic wings worked well.
- The idea of digital backdrops for stage is a great idea.
- Liked the library with glass breakout areas as well as moveable furniture — the size was good.
- Liked the TV station but would like it directly adjacent to the media center.
- Flexibility of rooms and layout is advantageous.
- Mobile furniture is a positive.
- The idea of non-homerooms is good.
- Discussed the International Baccalaureate program held in the building yesterday.

MERIDIAN HIGH SCHOOL

Concerns

- Mobile storage in classrooms (prefer built in casework, felt “cluttered”)
- Avoid splitting departments across floors
- Track in aux gym (keep in main gym)
- Lack of wall protection in corridors
- Meridian had too many windows from a safety standpoint.
- Too many interior windows — concerned about safety — no “hide” areas, yet, good supervision with central glass areas



FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

03 MERIDIAN HIGH SCHOOL

04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

STATE COLLEGE AREA HIGH SCHOOL

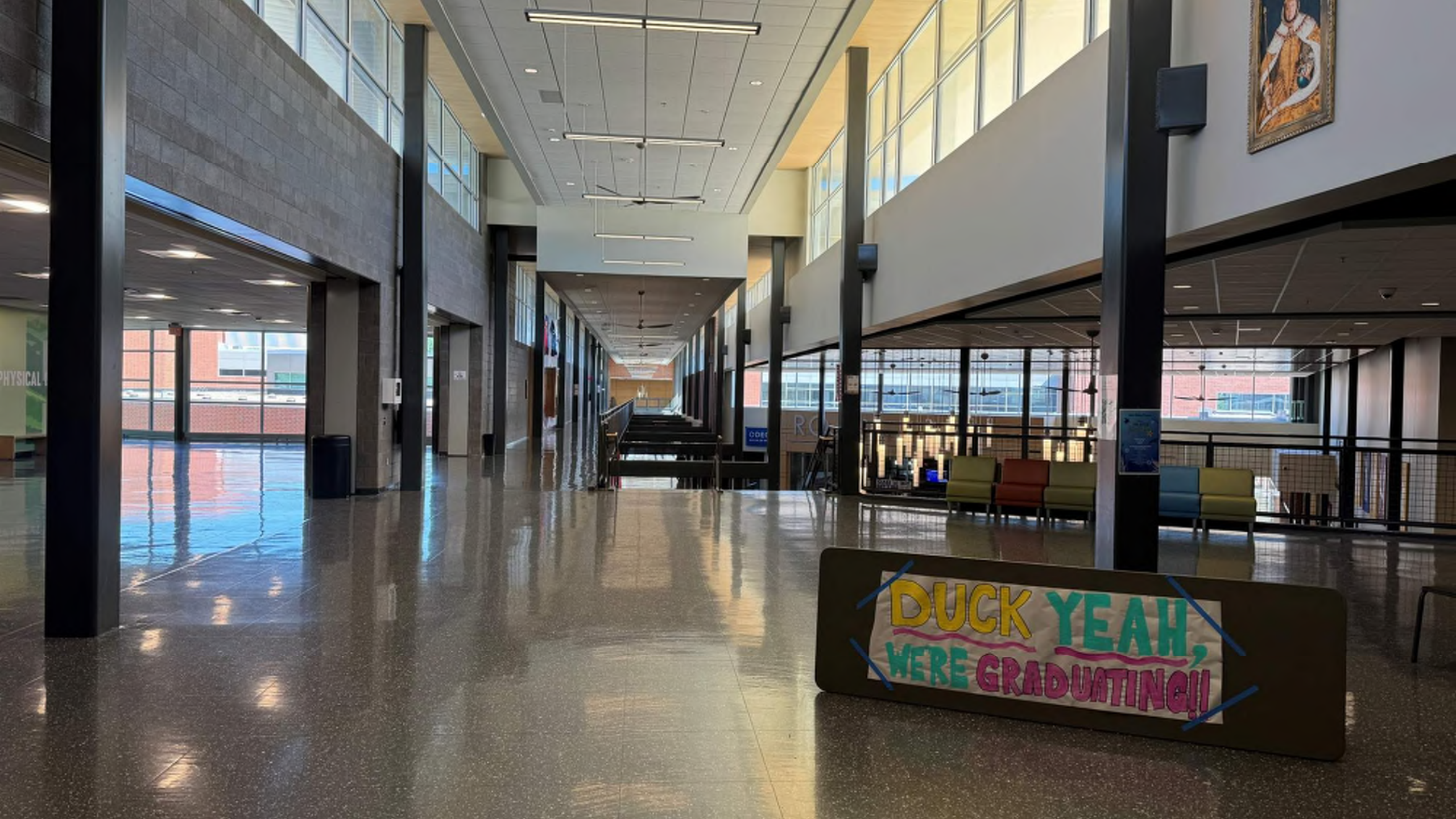
State College, PA

Architect: Crabtree, Rorhbaugh & Associates



Image courtesy of Crabtree, Rorhbaugh & Associates website





**DUCK YEAH,
WE'RE GRADUATING!!**





Image courtesy of Crabtree, Rohrbaugh & Associates website





Image courtesy of Crabtree, Rohrbaugh & Associates website



LARGE GROUP INSTRUCTION



Image courtesy of Crabtree, Rohrbaugh & Associates website



CULINARY ARTS







STATE



COLLEGE

STATE



COLLEGE



















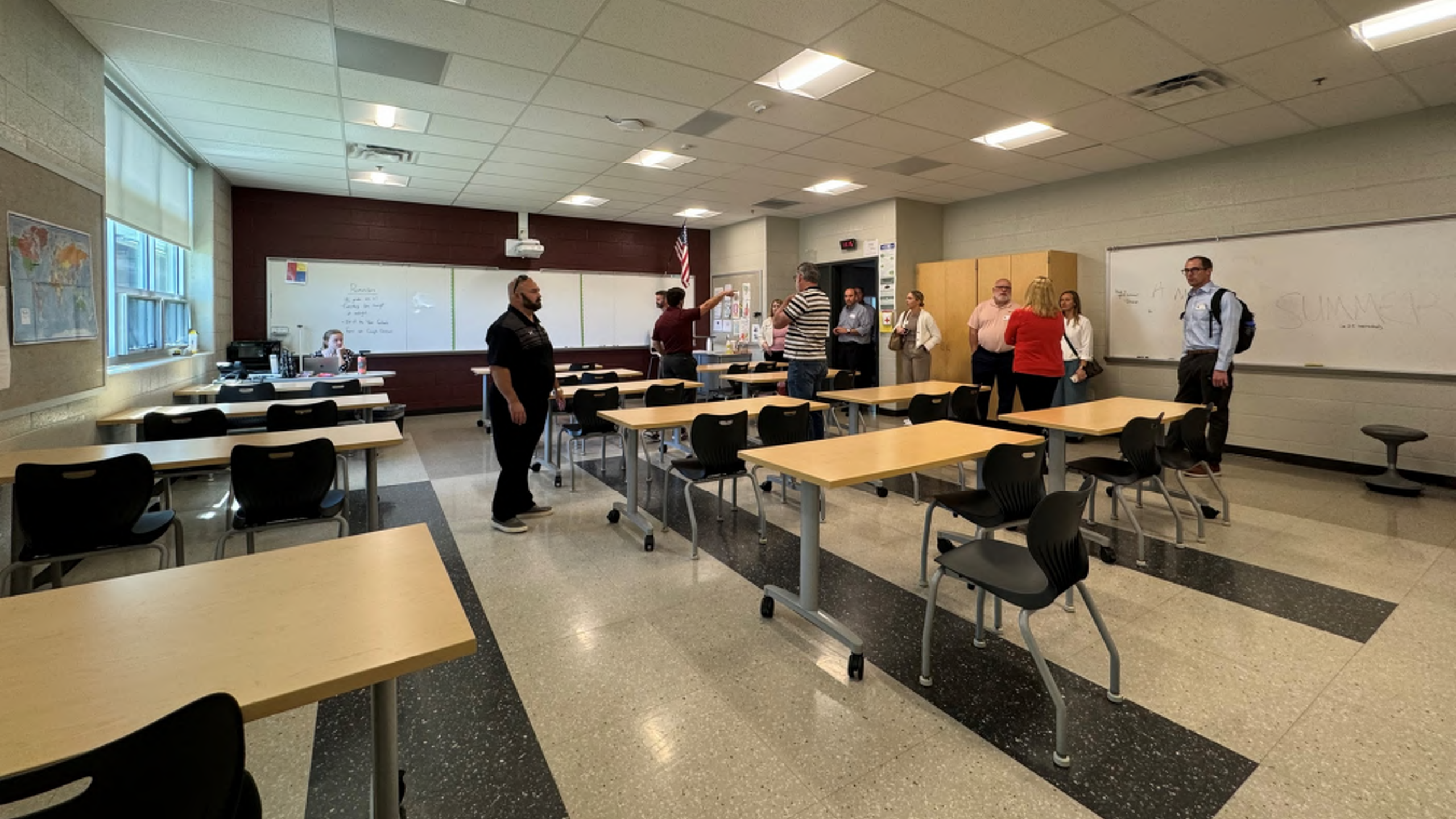








Image courtesy of Crabtree, Rohrbaugh & Associates website



Remember
to give 100%
Every day
to work
to be the best
you can be

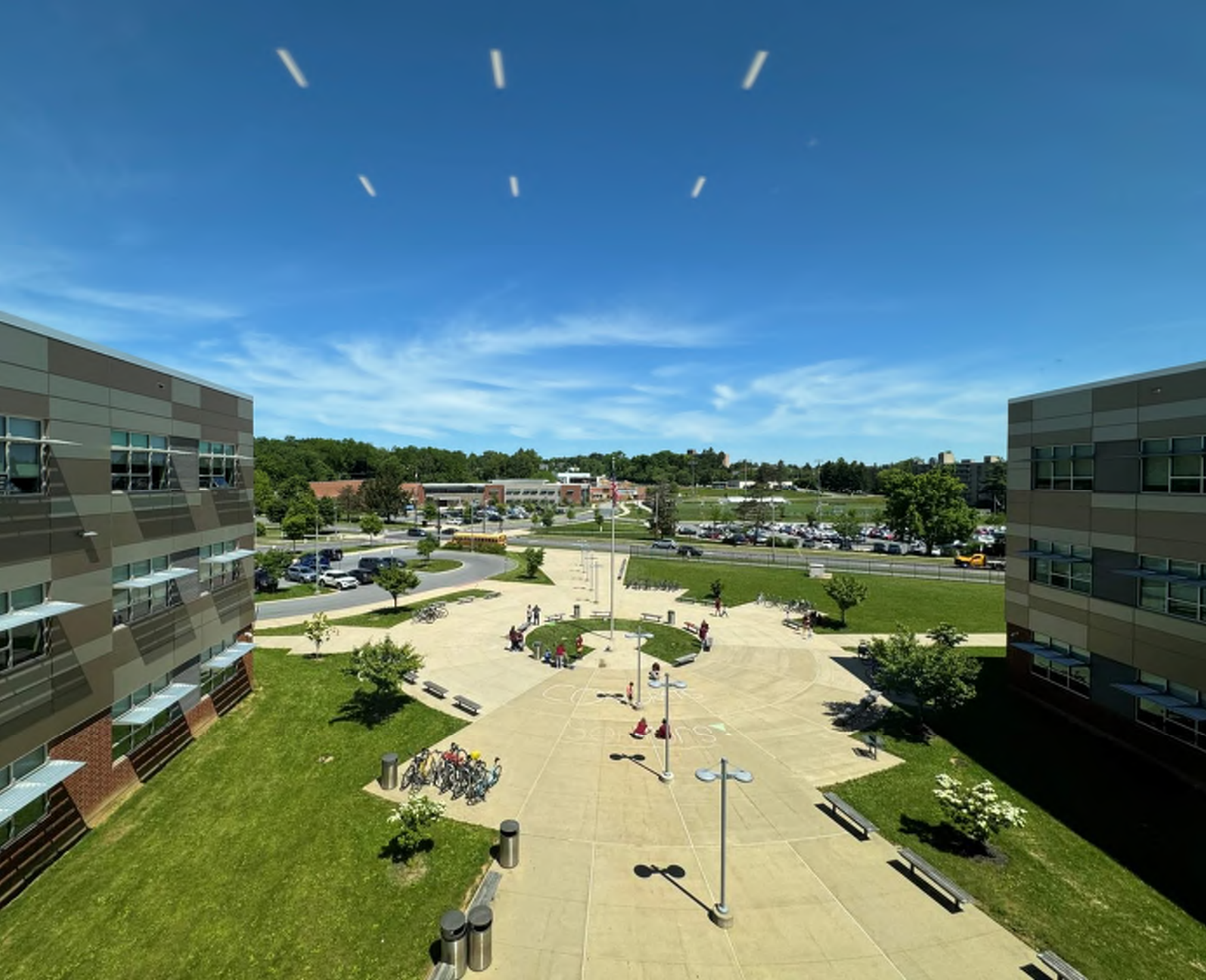
AM
SUMMER





Image courtesy of Crabtree, Rohrbaugh & Associates website





STATE COLLEGE AREA HIGH SCHOOL





STATE COLLEGE AREA HIGH SCHOOL



STATE COLLEGE AREA HIGH SCHOOL

Positive Reactions

- Great educational programming and modified block program
- Loved 9th grade academy.
- Outside amphitheater proximate to cafeteria is good — had landscaping to soften it — had lunch areas — these are used. Utilized changes in elevation well —
- Two-sided entry — bus and car are positive.
- Black box functionality can be expanded if you have it for dance class and with pull out tablet seating to be both educational and
- Second level windows with copious daylight are good for safety.
- Shared classrooms and teacher work rooms were good. Teacher work area is better than Meridian
- The furniture configuration is depicted by the educational goals.
- Liked the ground faced block wall from a color and durability standpoint.
- Exposed ceiling areas
- Curriculum based fitness room (not just for sports teams)
- Commons/stair layout. Had some flexibility for presentations/performances without being true learning stairs
- (3) gym spaces (multipurpose gym as wrestling room)
- FCS near cafeteria
- Costume area/changing rooms/scene shop (liked general layout of PA area)
- Counselor suites (“safe spaces” are important)
- Centralized school store

STATE COLLEGE AREA HIGH SCHOOL

Concerns

- Mobile storage in classrooms (prefer built in casework, felt “cluttered”)
- Challenging supervision with big solid central block — hard to monitor and supervise.
- LGIs felt dark/secluded
- Auditorium felt steep at second floor

OTHER

General Comments

- Like enclosed courtyards
- Discussed block system vs non block system.
- Still important to have departments near each other.
- Some would like to look further into the 9th grade center concept (Freshman Academy)
- Flexibility in CR layout will allow the district to adapt an educational concept to that facility later.
- Discussed having a serious discussion about the performing arts and arts and what is really required.



FACILITY TOURS

01 UPPER MERION AREA HIGH SCHOOL

02 SPRINGFIELD HIGH SCHOOL

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04 STATE COLLEGE AREA HIGH SCHOOL

05 AVON GROVE HIGH SCHOOL

AVON GROVE HIGH SCHOOL

Avon Grove, PA

Architect: KCBA



Image courtesy of KCBA website





Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website



Image courtesy of KCBA website

BOARD UPDATE

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COMMUNITY COLLEGE OF PHILADELPHIA

Philadelphia, PA

Career & Advanced Technology Center (CATC)



- Green roof for stormwater solutions
- Minimized parking related to zoning
- Highly energy efficient facility
- High recycled content finishes
- Urban environment

COMMUNITY COLLEGE OF PHILADELPHIA

Philadelphia, PA

Career & Advanced Technology Center (CATC)

- CCP reduced its water consumption by over 37% when compared to a 'typical' building.
- The project's annual water consumption uses ~135,000 gallons less than the average building, of its size and occupancy, per year.
- The project acts as a **great neighbor** to both the nearby humans and animals alike - meeting the requirements of Light Pollution Reduction by limiting the spread of lighting over the property boundary and up into the sky.
- The project has a **total energy cost savings of 30.8%** compared to the ASHRAE 90.1-2010 baseline



COMMUNITY COLLEGE OF PHILADELPHIA

Philadelphia, PA

Career & Advanced Technology Center (CATC)

- The total predicted annual energy consumption for the project is 1,020,997 kWh/year of electricity and 3,211 therms/year of natural gas.
- The team did an exemplary job with material selections and purchasing - installing many products that have both Environmental Product Declarations as well as Material Ingredient Reporting.
- High Priority Site
- Reduced Parking Footprint
- LED light fixture selection
- Water Metering
- Building Product Disclosure and Optimization
- Indoor Air Quality Strategies
- Selecting low-emitting materials
- Rainwater Management



BOARD UPDATE

APRIL

MAY

JUNE





NORTH







ANVIL DRIVE

TRANSPORTATION
CENTER

OFF
LIMITS

OFF
LIMITS

SEWER
TREATMENT
FACILITY

POTENTIAL
ACCESS

KRIEBEL MILL ROAD

GERMANTOWN PIKE

OFF
LIMITS

EXISTING
DAO

OFF
LIMITS

OFF
LIMITS

MILL ROAD

NORTH

CURRENT
ACCESS

KRIEBEL MILL ROAD

CURRENT
ACCESS

CURRENT
ACCESS

CURRENT
ACCESS





TRANSPORTATION
CENTER

OFF
LIMITS

OFF
LIMITS

MULTI-PURPOSE

SEWER
TREATMENT
FACILITY

OFF
LIMITS

OFF
LIMITS

DEVELOPMENT
AREA #2

OFF
LIMITS

NORTH

ANVIL DRIVE

KRIEBEL MILL ROAD

MILL ROAD

GERMANTOWN PIKE

KRIEBEL MILL ROAD

EXISTING
ROAD

CURRENT
ACCESS

CURRENT
ACCESS

CURRENT
ACCESS

CURRENT
ACCESS

POTENTIAL
ACCESS

METHACTON SCHOOL DISTRICT

HIGH SCHOOL CAMPUS PROJECT



SCHRADERGROUP