

BORA



PORTLAND PUBLIC SCHOOLS

Ida B. Wells High School

Community Design Workshop #3
February 3, 2024

ab after BRUCE
public relations & marketing

WALKER | MACY

kpff

DESIGN TEAM HERE TODAY



Donna Bezio
PPS



Erik Gerding
PPS



Hector Lopez
PPS



Stefee Knudsen
Bora



Amy Donohue
Bora



Amelie Reynaud
Bora



Aisha Marcos
Bora



Corey Squire
Bora



Mireaya Medina
After Bruce

who is in the room?

- parent
- student
- staff
- neighbor
- friend
- CPC member
- innocent bystander?

CPC: Comprehensive Planning Committee

AGENDA

Overview + Introduction 00:05

Objectives + Look Ahead 00:05

What We've Heard: CPC 3 + CDW 2 00:25

Carbon: Embodied + Operational 00:10

Refined Site Design Options 00:20

Refined Site Design Options: Feedback Exercise 00:40

Public Comments 00:10

Close + Next Steps 00:05

meeting notes
from CDW #2 are
posted on the PPS
Bond website!

OBJECTIVES FOR TODAY

Vision Statement & Guiding Principles: review updated Vision Statement and Guiding Principles.

Site Approach: input towards a single option (not choosing)
“Work toward ONE preferred option to take to the School Board.”

- **Experience:** what it feels like? Does it reflect the values of IBWHS?
- **Function:** how does it work?
 - Arrival and connection to/from Capital Hwy?
 - Arrival and access to the pool?
 - Vehicular and Pedestrian access to building to/from site?

COMMITTEE INPUT + ROLE IN THIS PROCESS

modernizations are about the **physical space**

- how it looks and feels
- how the infrastructure supports teaching & learning

this work is **not about operations**

- how it is managed
- what types of classes or functions are inside

Your input helps us understand qualitative questions:

experience, uniqueness, and the culture of this school.



WHERE ARE WE IN THE BIG PICTURE

**We are
HERE**

2019
Comprehensive
Master Plan

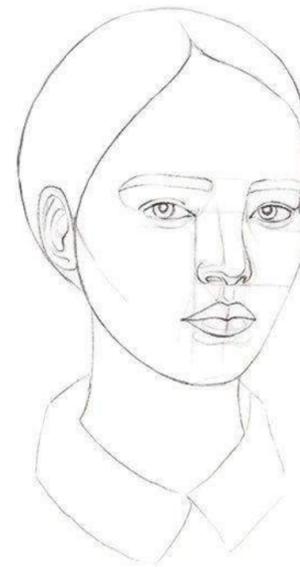
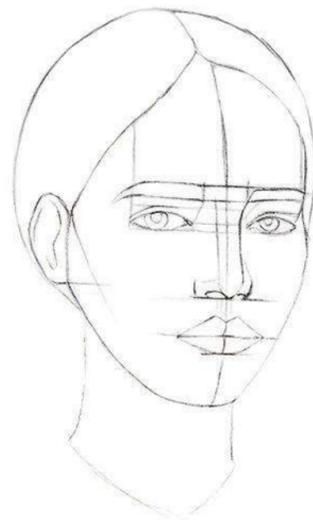
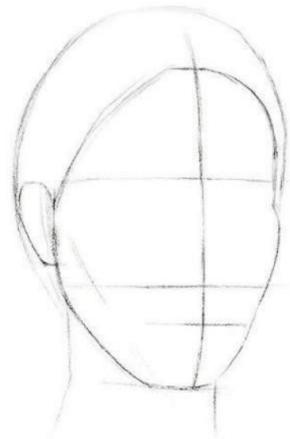
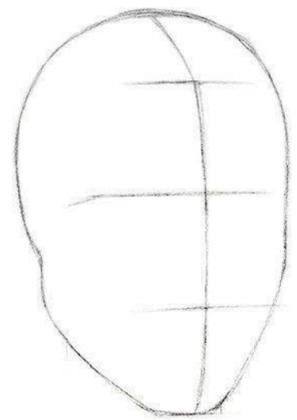
**2023-24
Comprehensive
Planning**

Schematic
Design

Design
Development

Permit
Documents

Ready for
Construction!



**TYPICALLY
18-24 MONTHS**

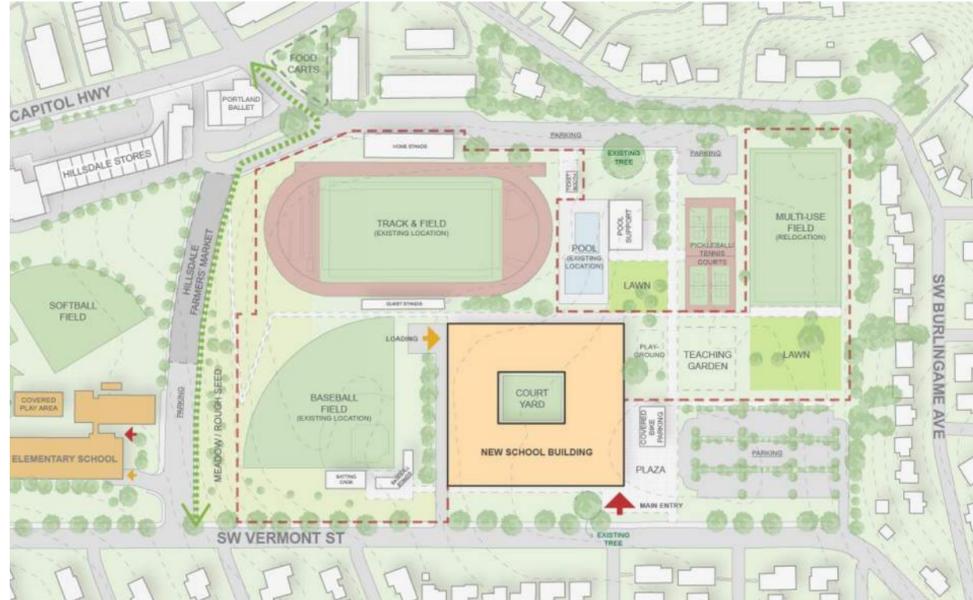
**TYPICALLY
24-36 MONTHS**

What We've Heard



WHAT WE'VE HEARD

1 - GATHER



SUCCESSSES

- Smaller footprint = more open site space
- Maintains major site elements in same place; less disruption
- 4-story building = better views!

CHALLENGES

- Weak connection to Capitol Hwy
- Difficult loading access
- Fully enclosed courtyard is uninviting & disconnected
- Not enough parking near Capitol Hwy
- 4-stories feels too tall and cramped

2 - LIFT



SUCCESSSES

- Minimizes western sun exposure
- Ideal baseball field orientation
- Variety of courtyards that are connected to site
- 2 or 3 stories is better for neighborhood scale
- Massing integrates with natural landscape

CHALLENGES

- Weak connection to Capitol Hwy
- Too close to Rieke Elementary
- Not enough parking near Capitol Hwy
- Difficult access to west side of building

3 - CONNECT



SUCCESSSES

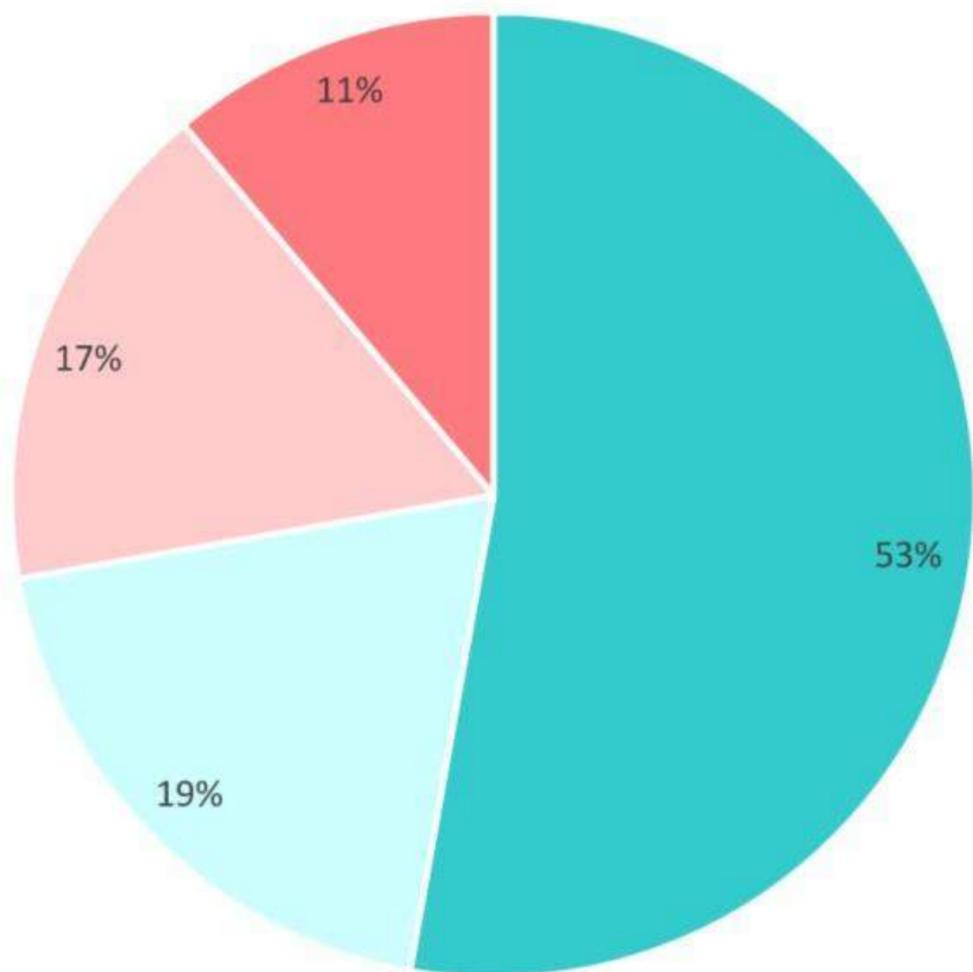
- Strong connection to Capitol Hwy
- Ideal baseball field and track & field orientation
- Parking convenient at both sides of building
- Centers building on campus
- Courtyard connects to site and views
- 2 or 3 stories is better for neighborhood scale

CHALLENGES

- Pool relocation is likely costly
- Pool is further away from Hillside businesses
- Moves more site elements; more disruption
- Harder to minimize western sun exposure
- Grandstand facing west

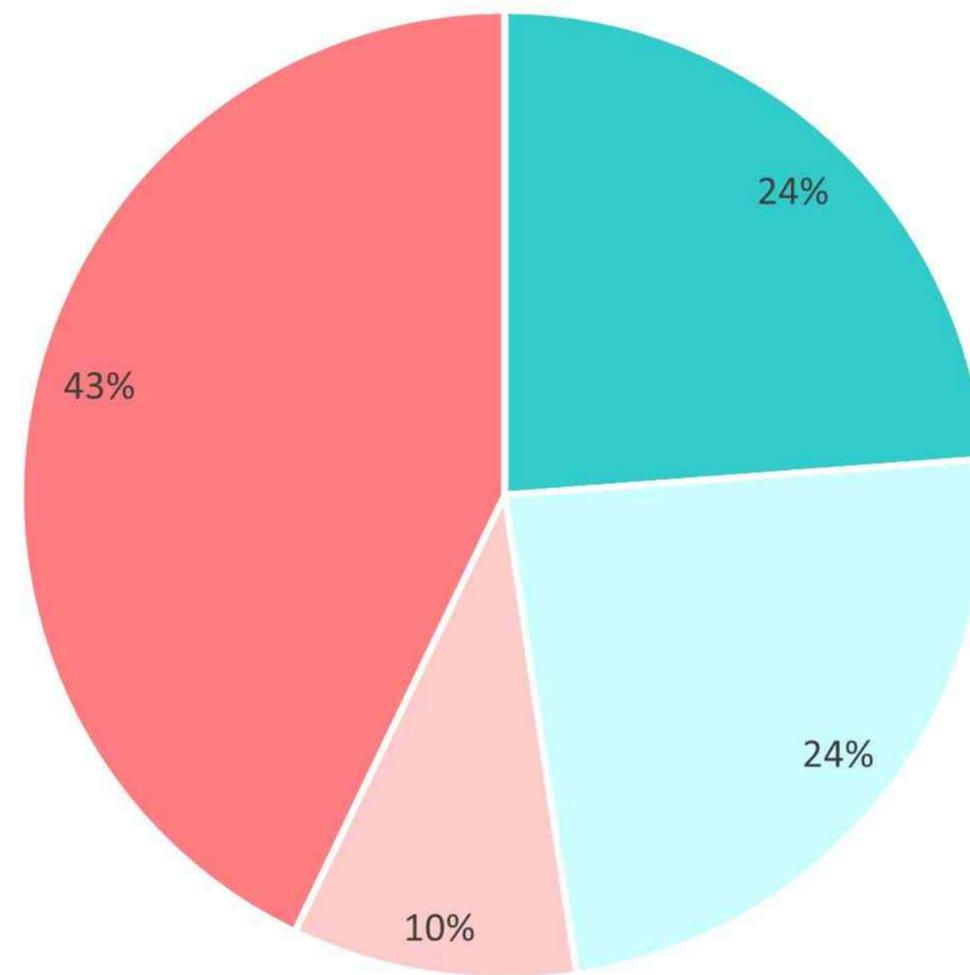
WHAT WE'VE HEARD - POOL

Community



- Strong advocate for keeping public pool
- Moderate advocate for keeping public pool
- Moderate advocate for optimal modern campus
- Strong advocate for optimal modern campus

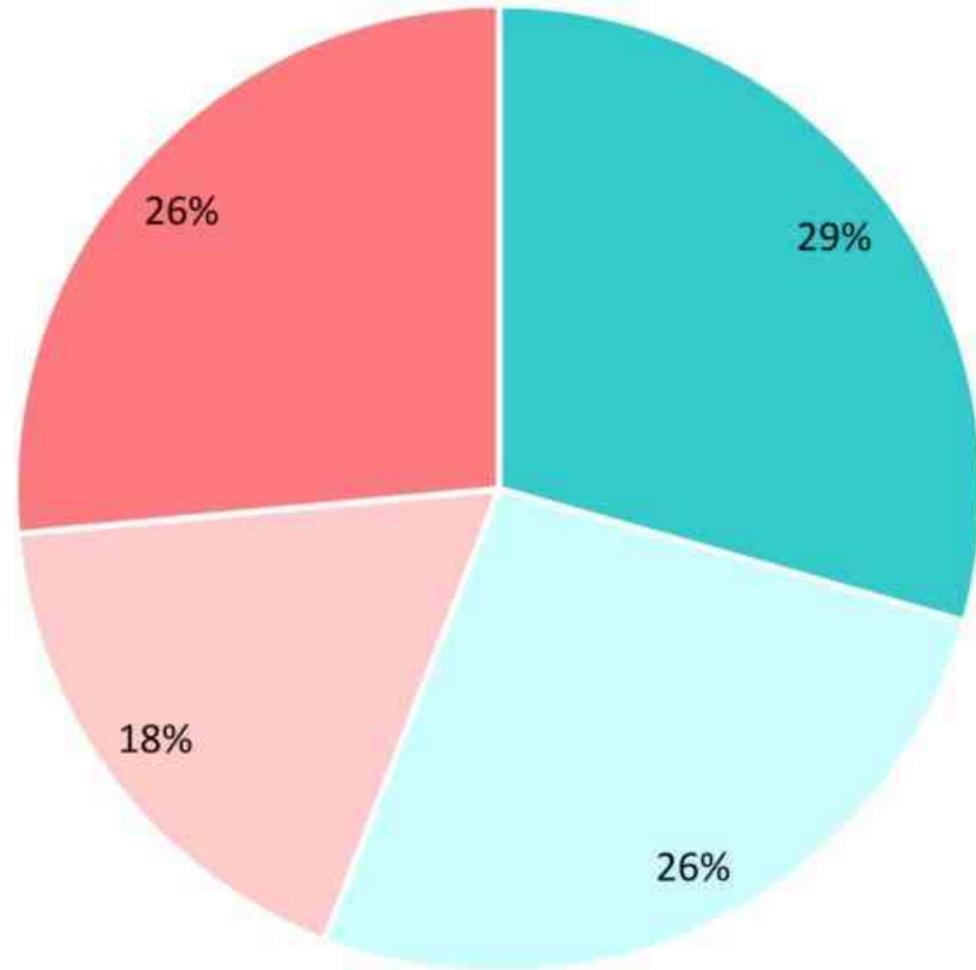
CPC



- Strong advocate for keeping public pool
- Moderate advocate for keeping public pool
- Moderate advocate for optimal modern campus

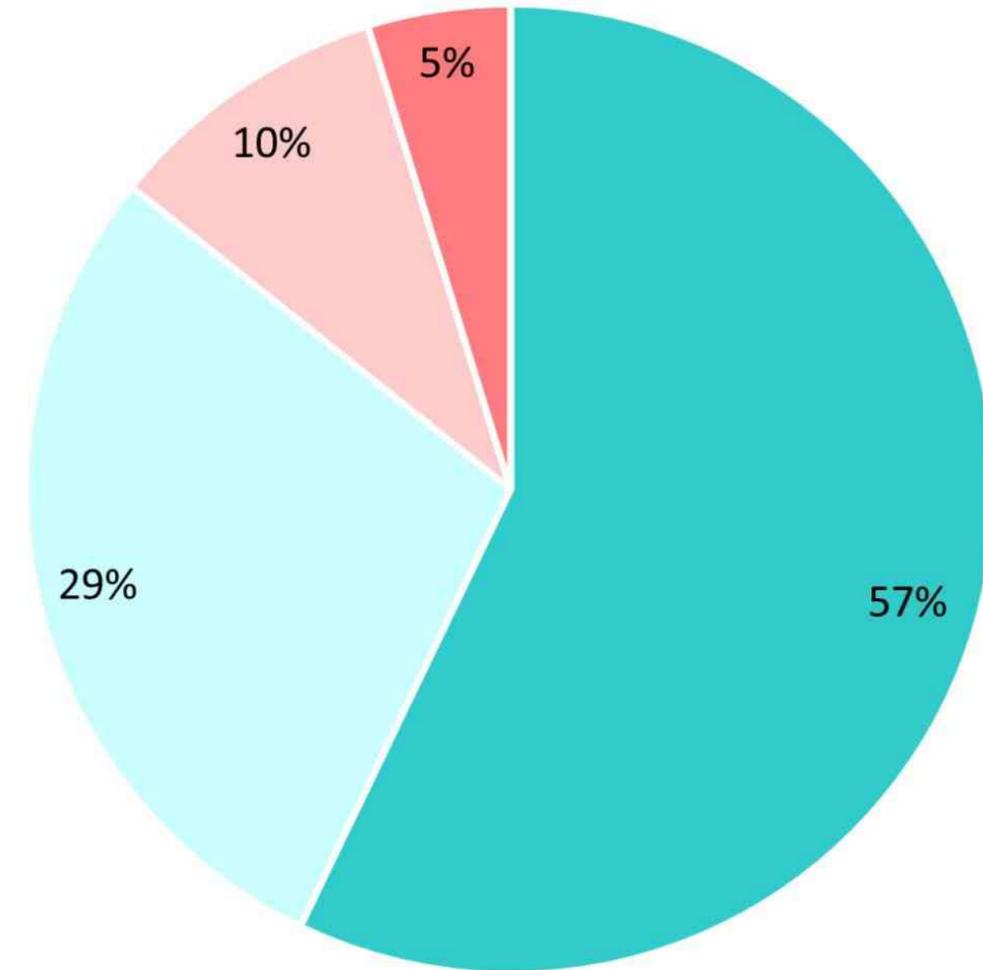
WHAT WE'VE HEARD - TRACK AND FIELD DISRUPTION

Community



- Strong advocate for optimizing T&F placement
- Moderate advocate for optimizing T&F placement
- Moderate advocate for keeping T&F open during construction

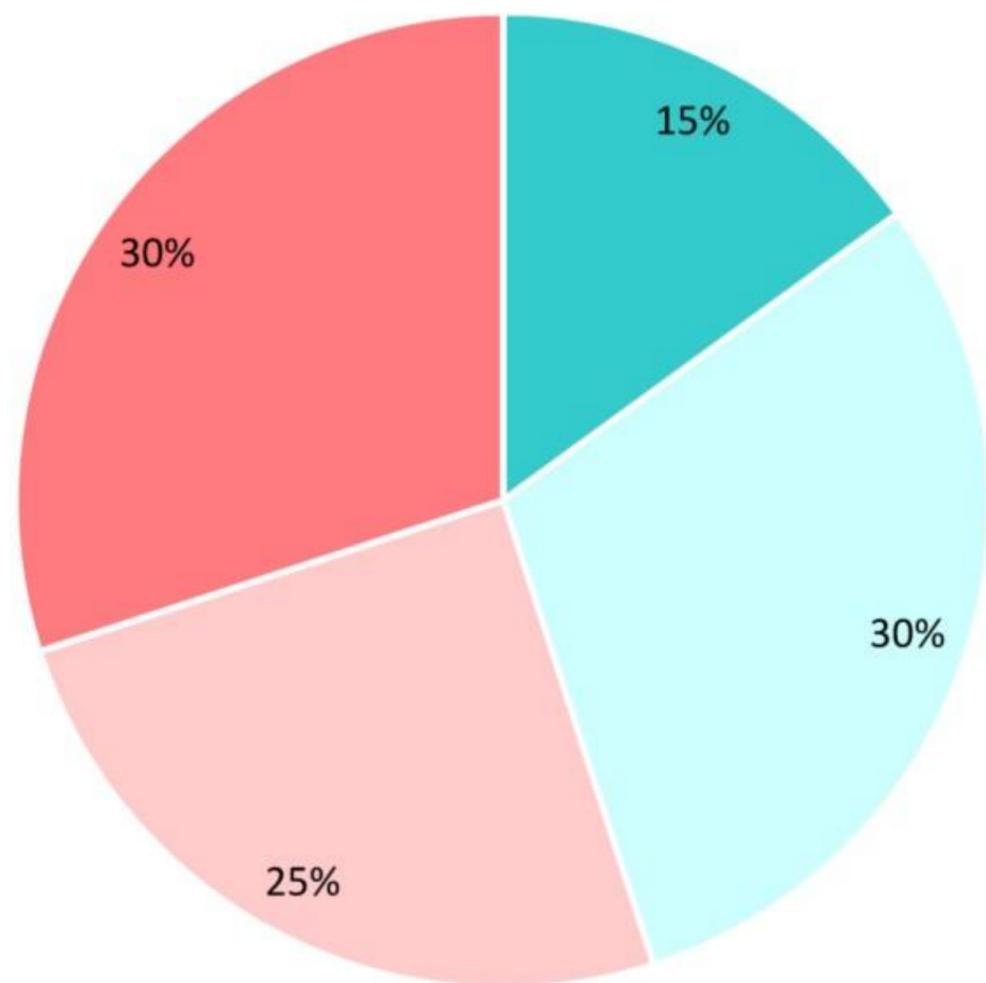
CPC



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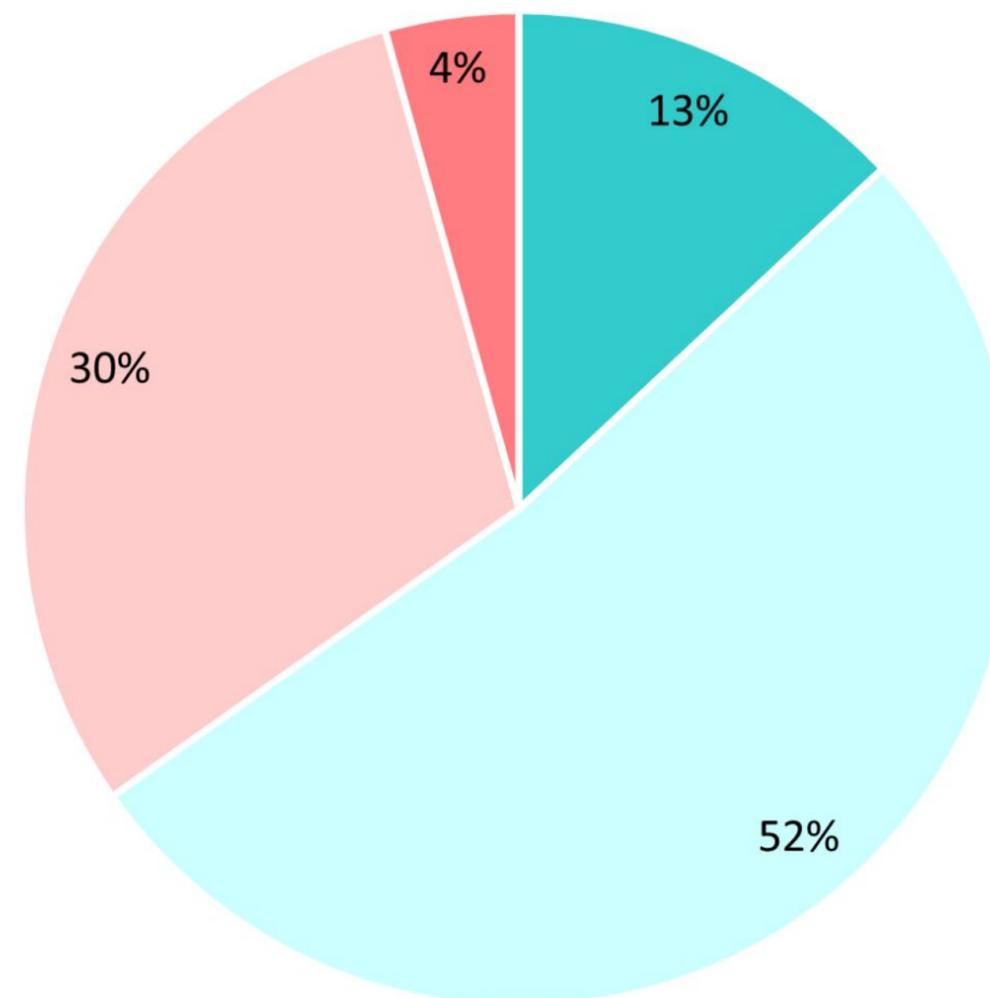
WHAT WE'VE HEARD - ENTRY

Community



- Strong advocate for entry from Vermont
- Moderate advocate for entry from Vermont
- Moderate advocate for entry from Capitol HWY
- Strong advocate for entry from Capitol HWY

CPC



- Strong advocate for entry from Vermont
- Moderate advocate for entry from Vermont
- Moderate advocate for entry from Capitol HWY
- Strong advocate for entry from Capitol HWY

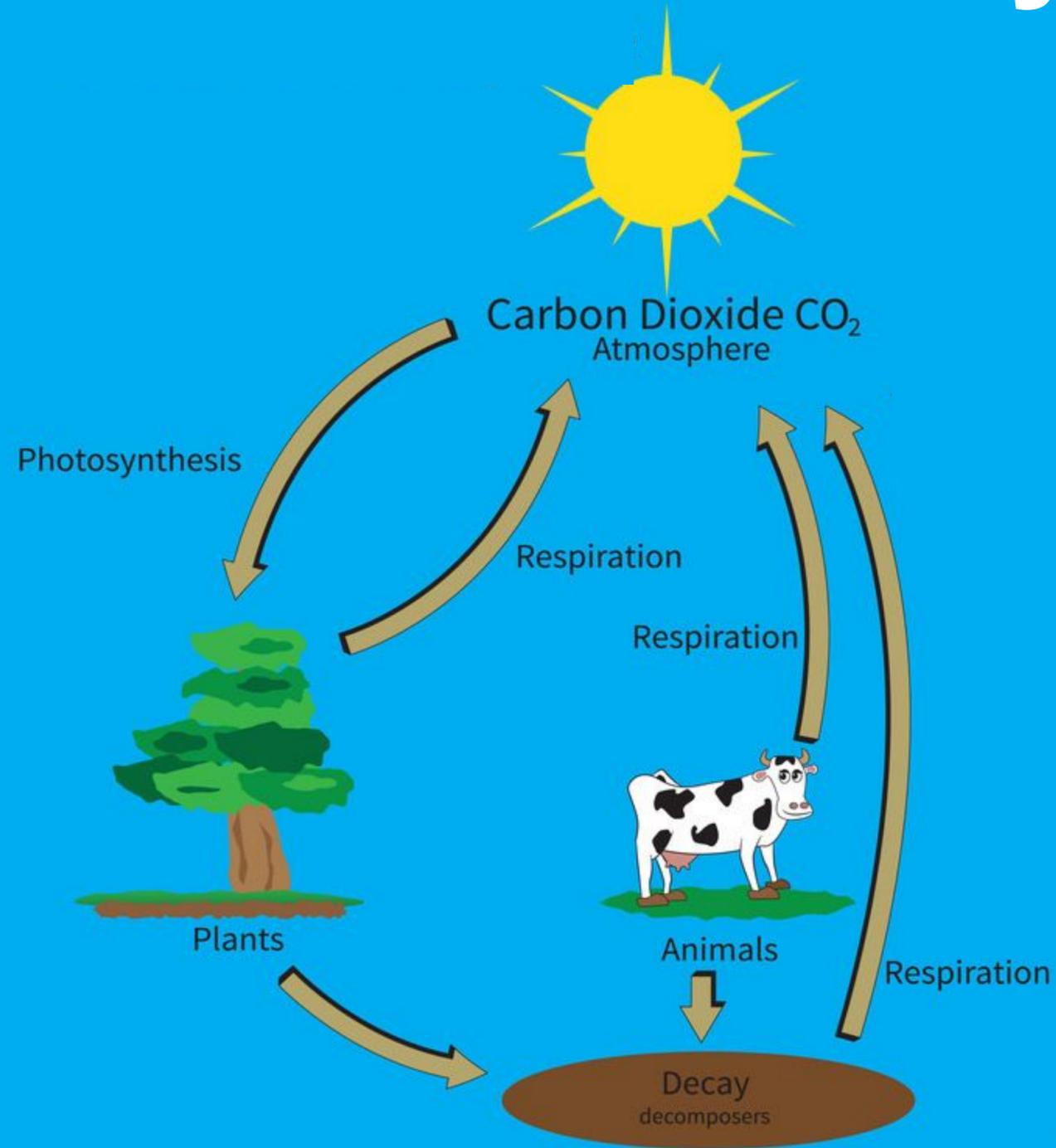
Carbon: Embodied and Operational



Carbon and Design

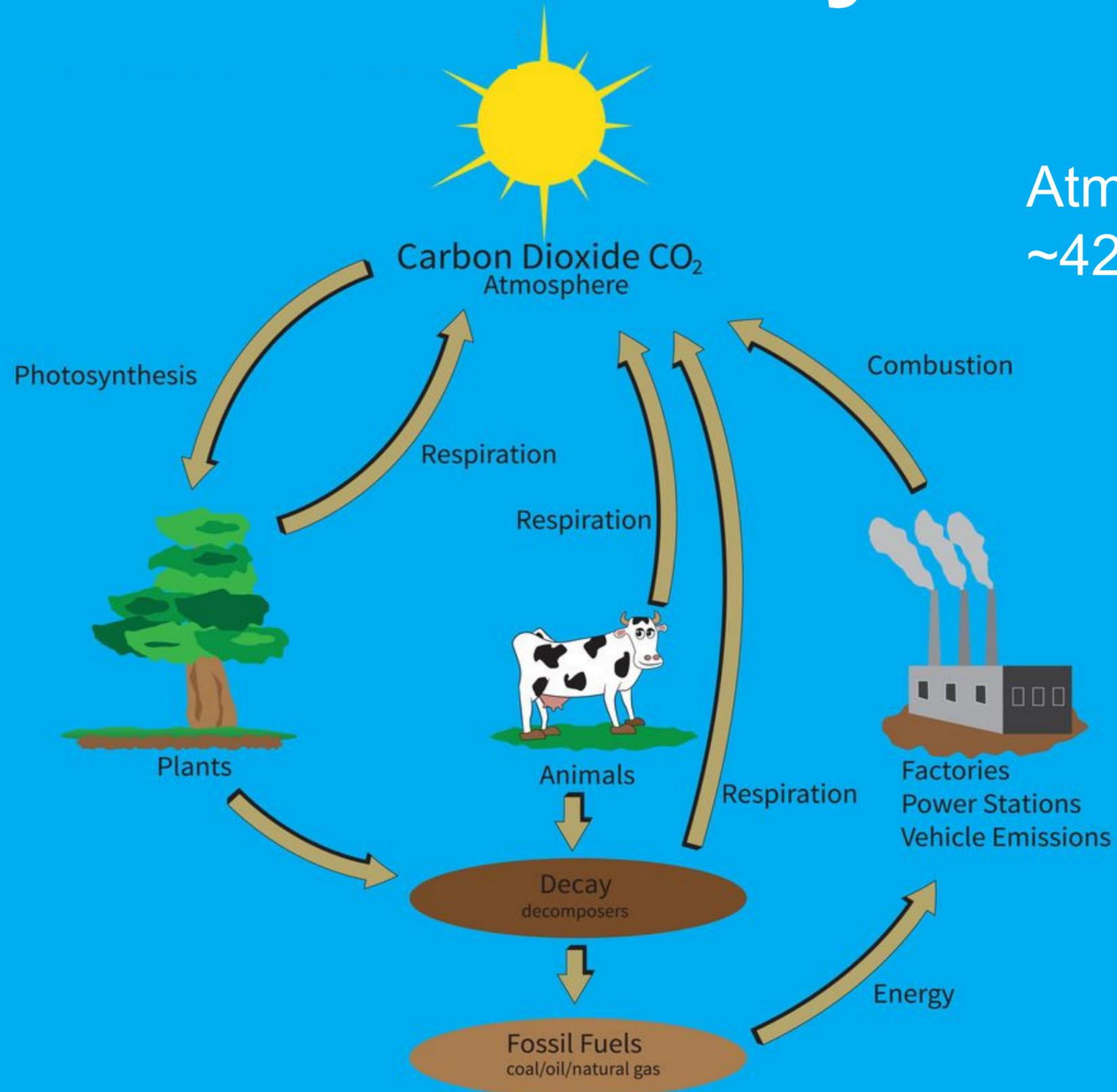


The Carbon Cycle



Atmospheric carbon
~350 ppm

The Carbon Cycle



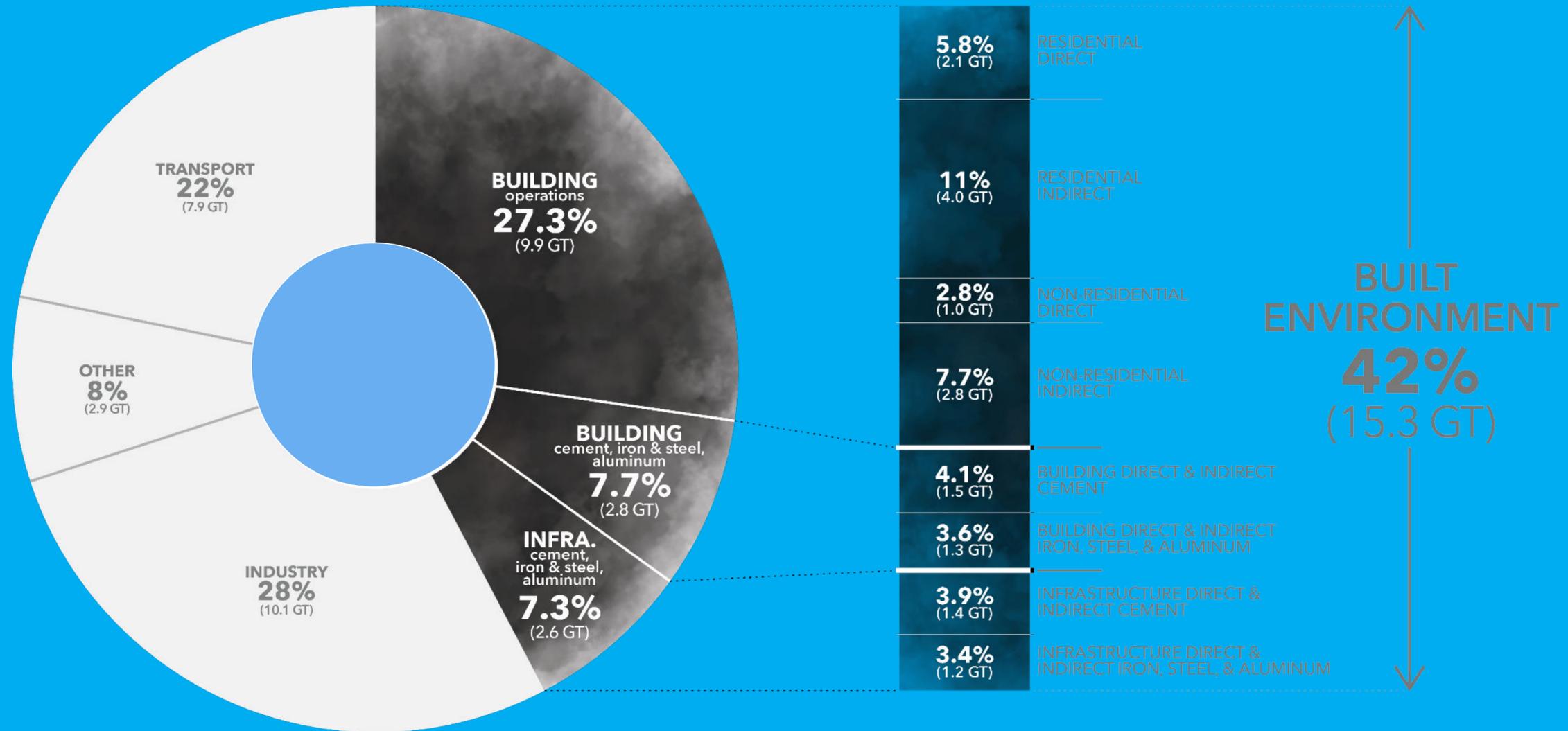
Atmospheric carbon
~421 ppm





TOTAL ANNUAL GLOBAL CO₂ EMISSIONS

Direct & Indirect Energy & Process Emissions (36.3 GT)



A photograph of an industrial facility at sunset. Two tall, dark smokestacks are visible, each emitting a thick, dark plume of smoke that rises and spreads across the sky. The sky is a mix of orange, red, and grey, indicating the time is either dawn or dusk. In the foreground, the silhouettes of various industrial structures and two construction cranes are visible against the bright horizon.

We Know Carbon is Bad

But How Bad??

The Social Cost of Carbon

\$190 / Ton

Each ton of carbon released into the atmosphere costs society \$190

This cost is paid in:

Increased Medical Expenses

Climate Adaptation

Extreme Weather

Scarcity of Resources

Crop Failures

Control of Invasive Species

Loss of Ecosystem services

Life and Limb

General Human Suffering

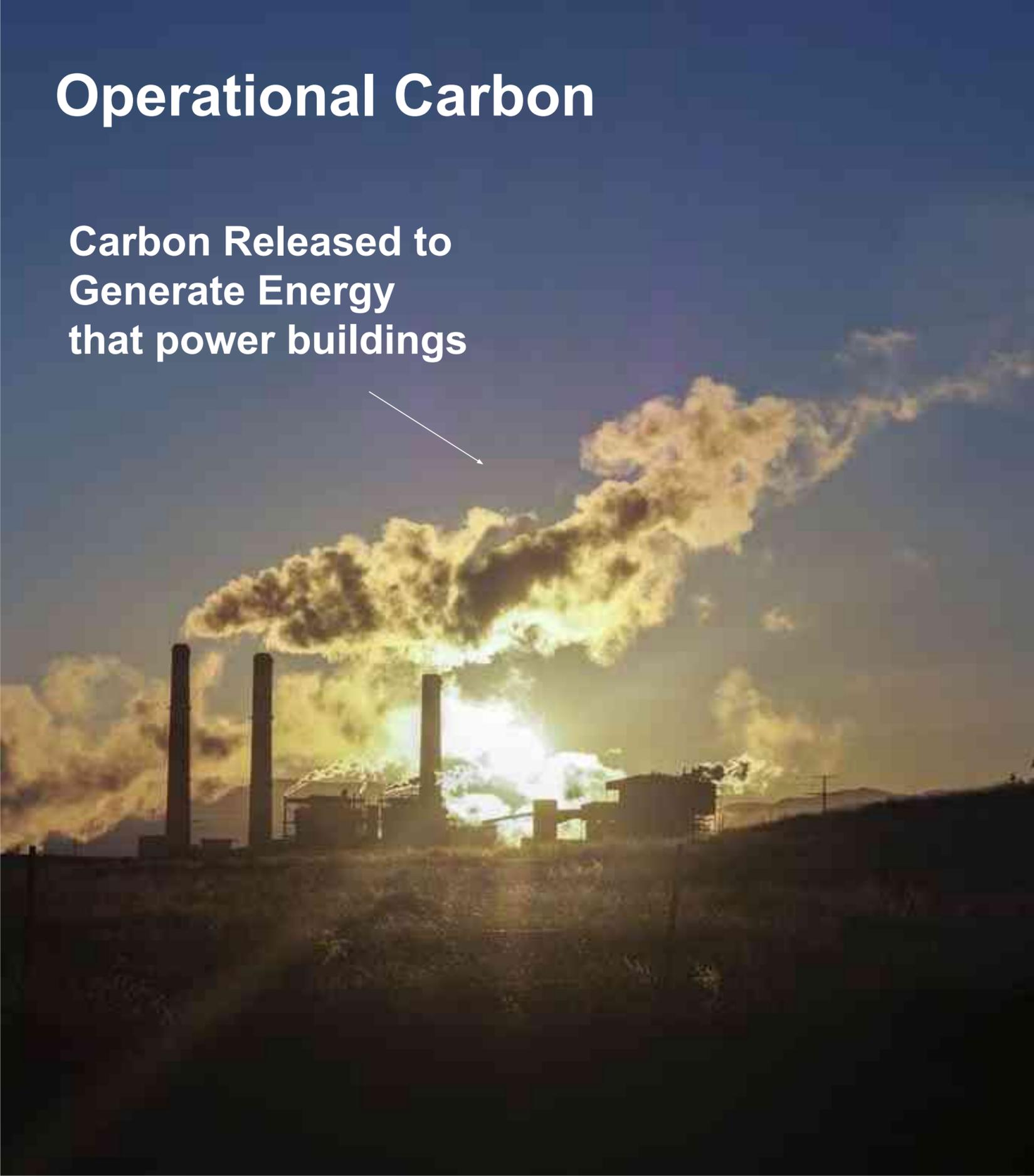
And carbon emission from buildings are dependent on design decisions

Specifically:

Window Systems
Comfort Systems
Structural Systems
Land Use
Transportation

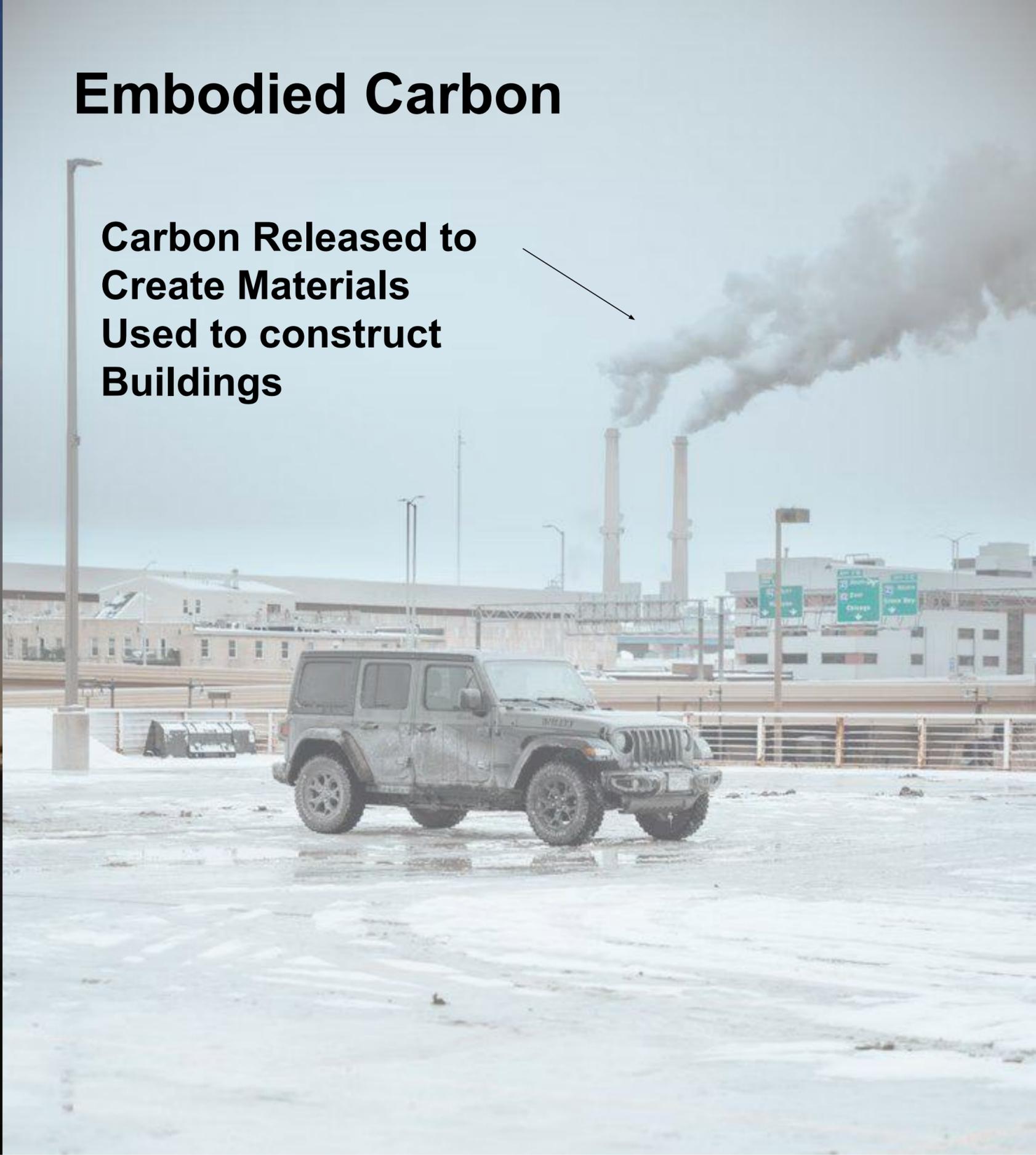
Operational Carbon

Carbon Released to Generate Energy that power buildings



Embodied Carbon

Carbon Released to Create Materials Used to construct Buildings



Operational Carbon

**Energy Efficiency
and
Solar PV**

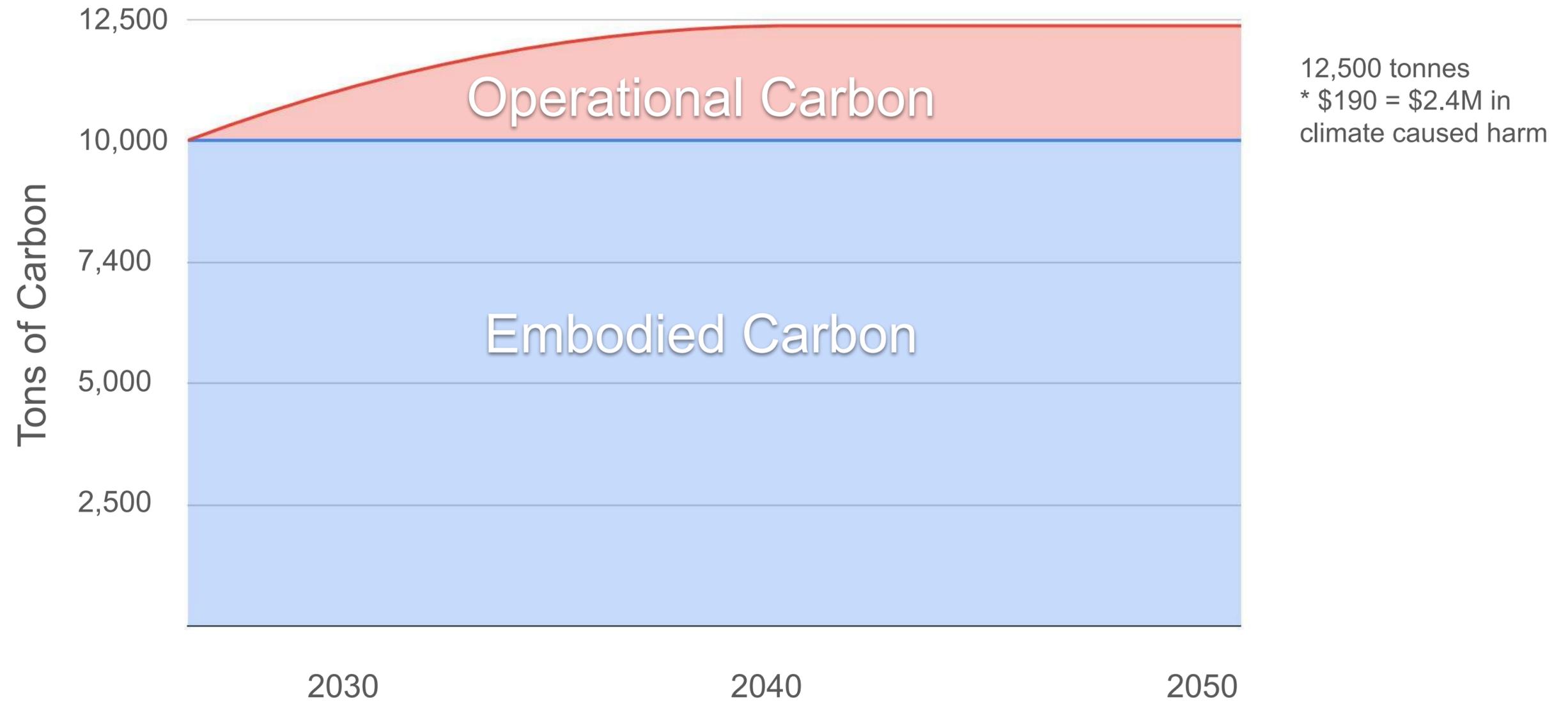
Embodied Carbon

**More wood,
Less concrete
and steel**



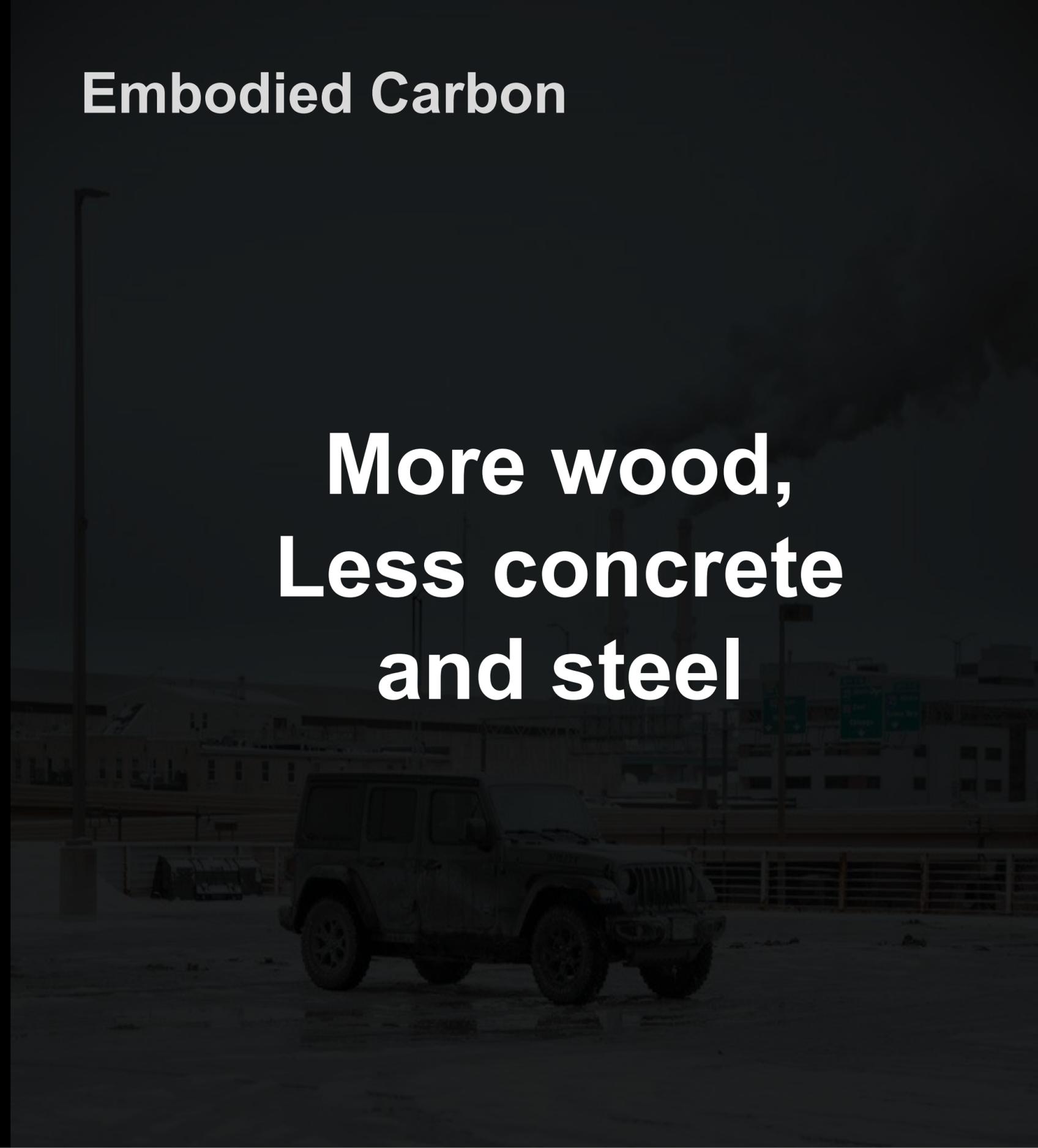
Ida B. Wells Cumulative Carbon Emissions

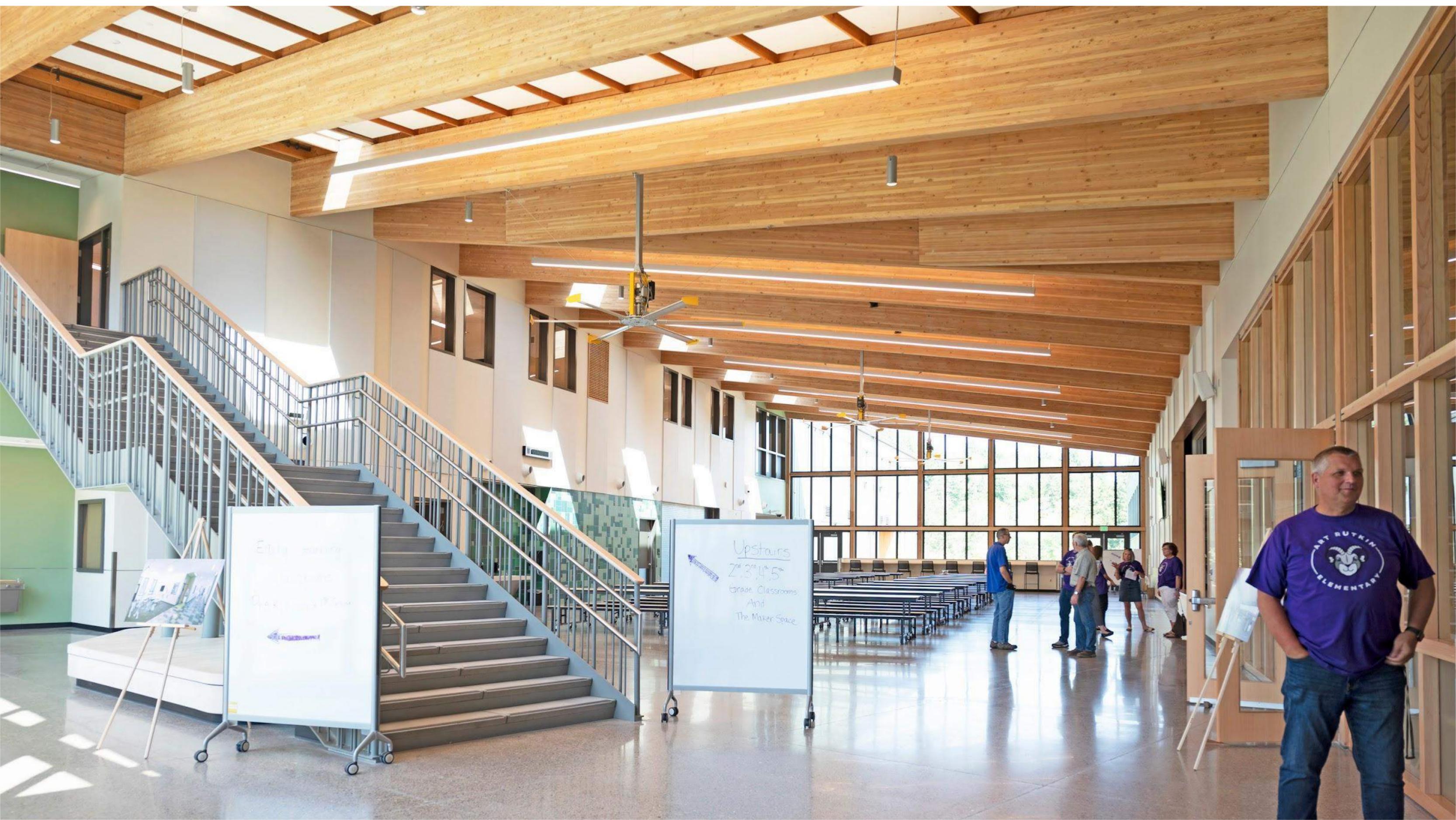
(If build as a typical school)



Embodied Carbon

**More wood,
Less concrete
and steel**





Entry Lobby
Open House
←

Upstairs
2nd, 3rd, 4th, 5th
Grade Classrooms
And
The Maker Space
↑

ART RUTKIN
ELEMENTARY

Emissions Reduction:

PPS will reduce its greenhouse gas emissions by 50 percent by 2030, using the 2018-2019 school year baseline, and reach net zero emissions by 2040



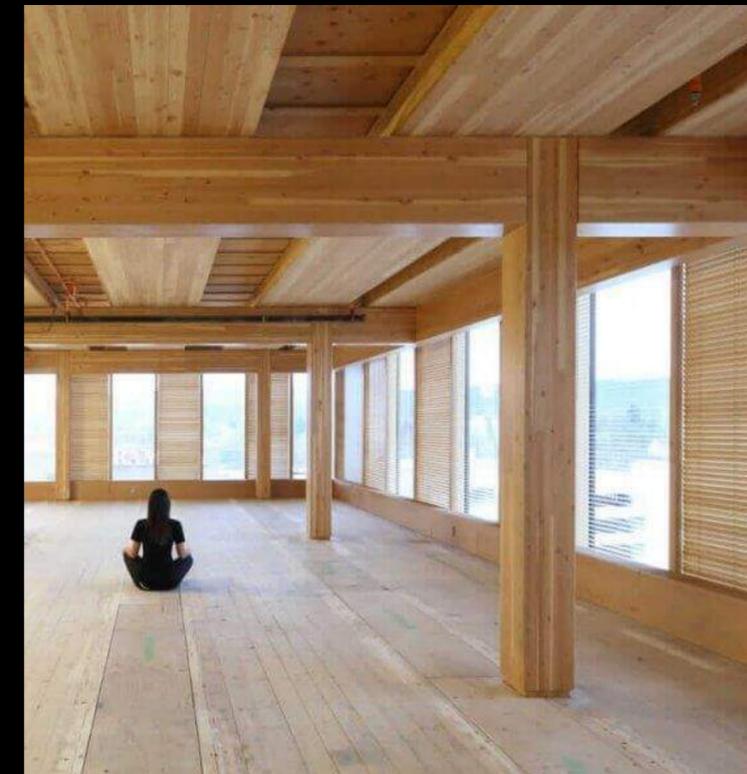
Pillar 1

Reduce Environmental Impact and Costs

Goal 1.1

PPS will design and construct new low-carbon schools and renovations that are energy-efficient, resilient, and adaptable.

Questions?

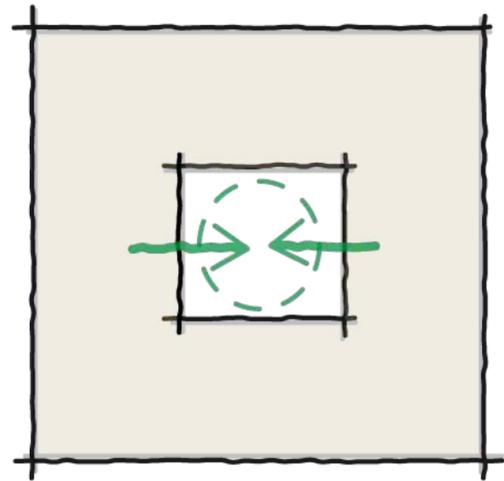


Next month: **Indoor Air Quality** primer post

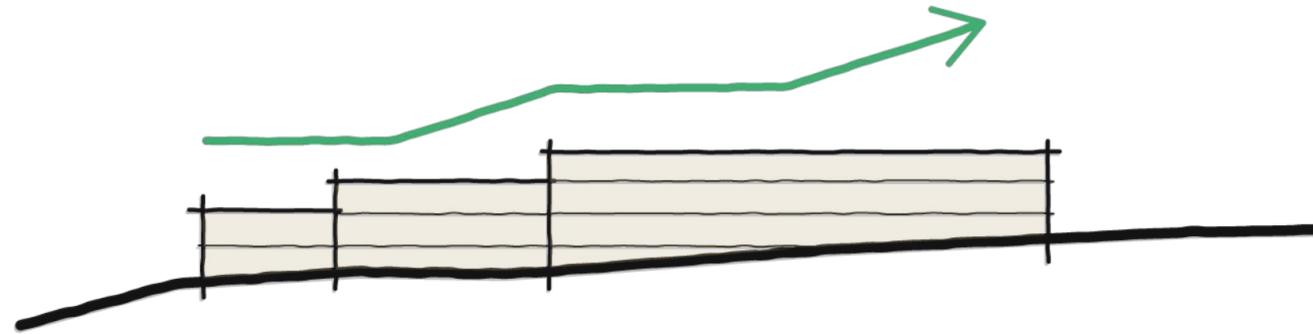
Site Design Options



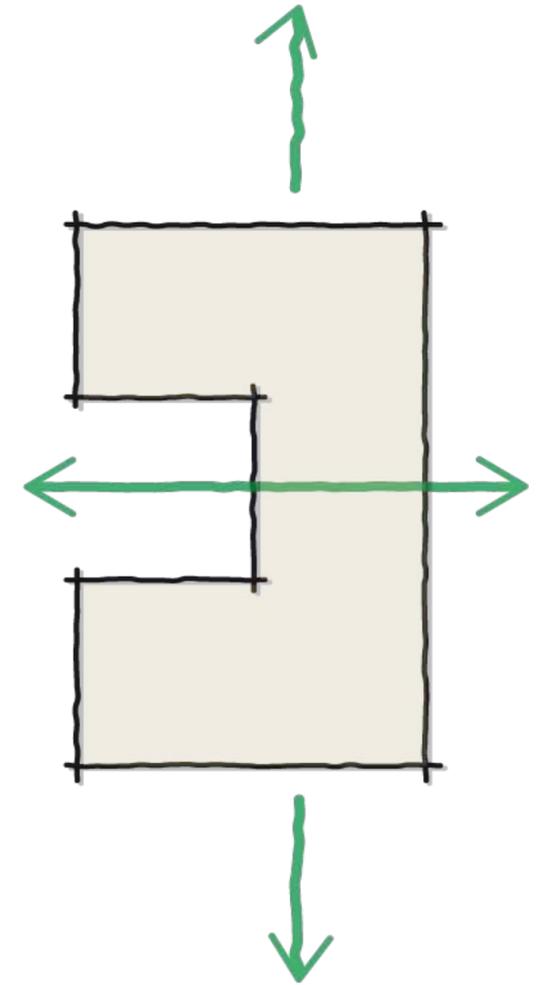
DESIGN CONCEPTS



GATHER

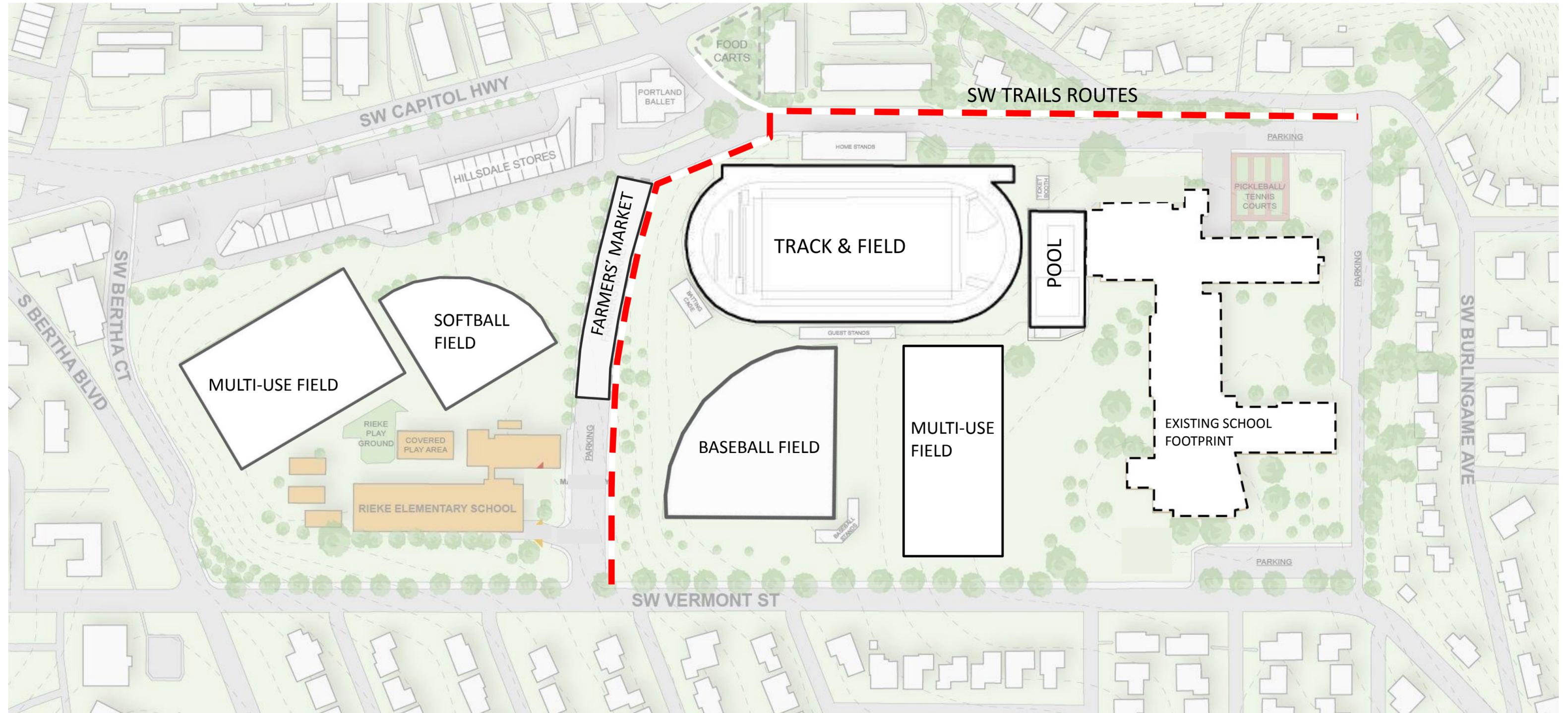


LIFT

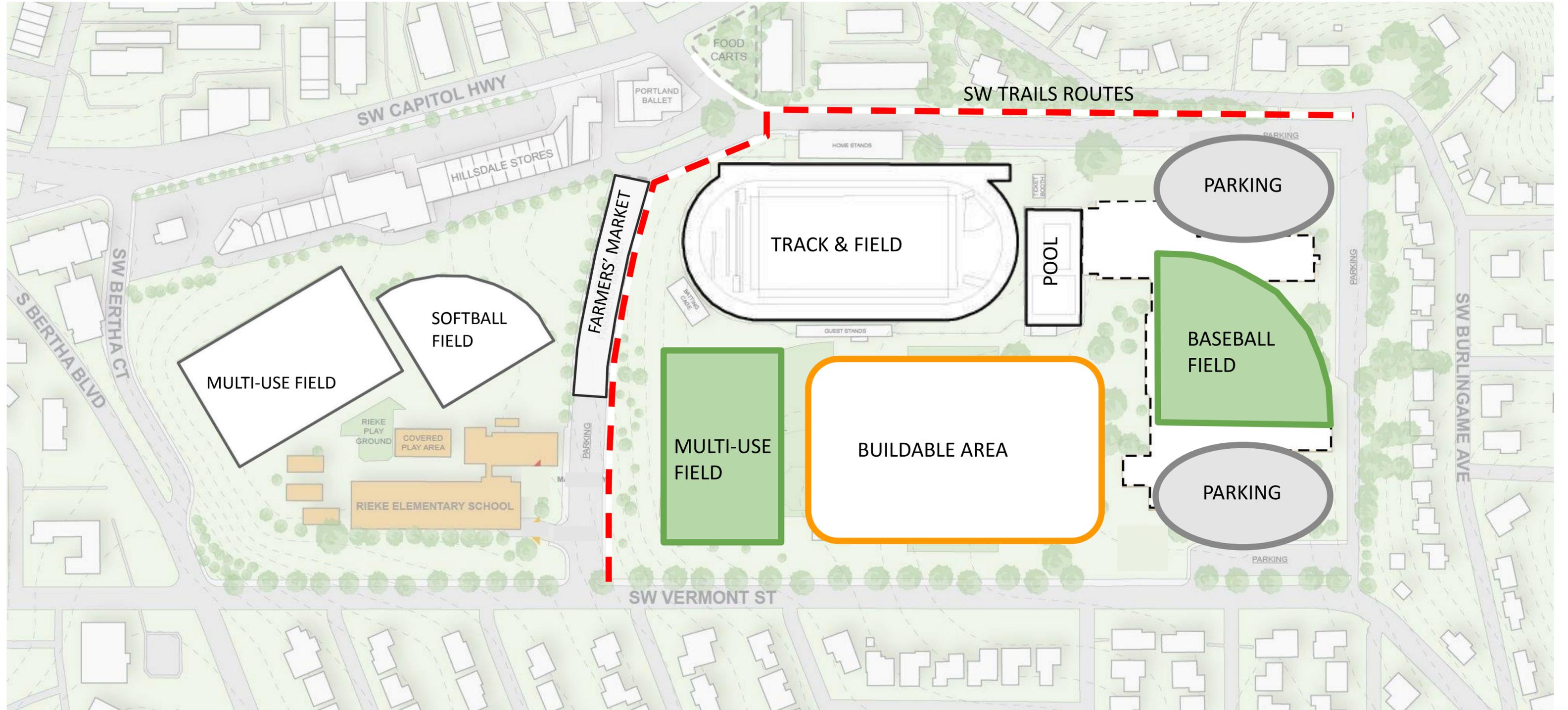


CONNECT

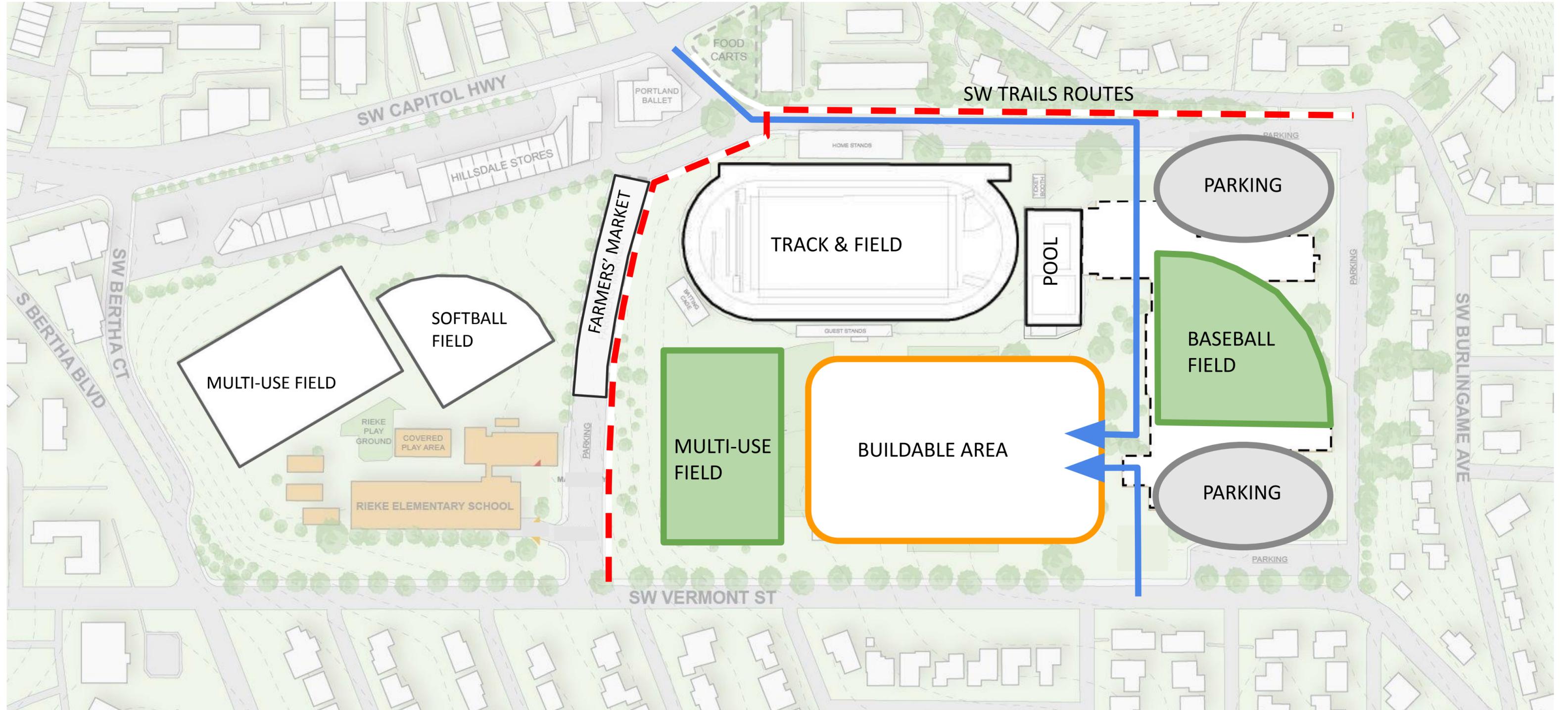
EXISTING SITE - MAJOR ELEMENTS



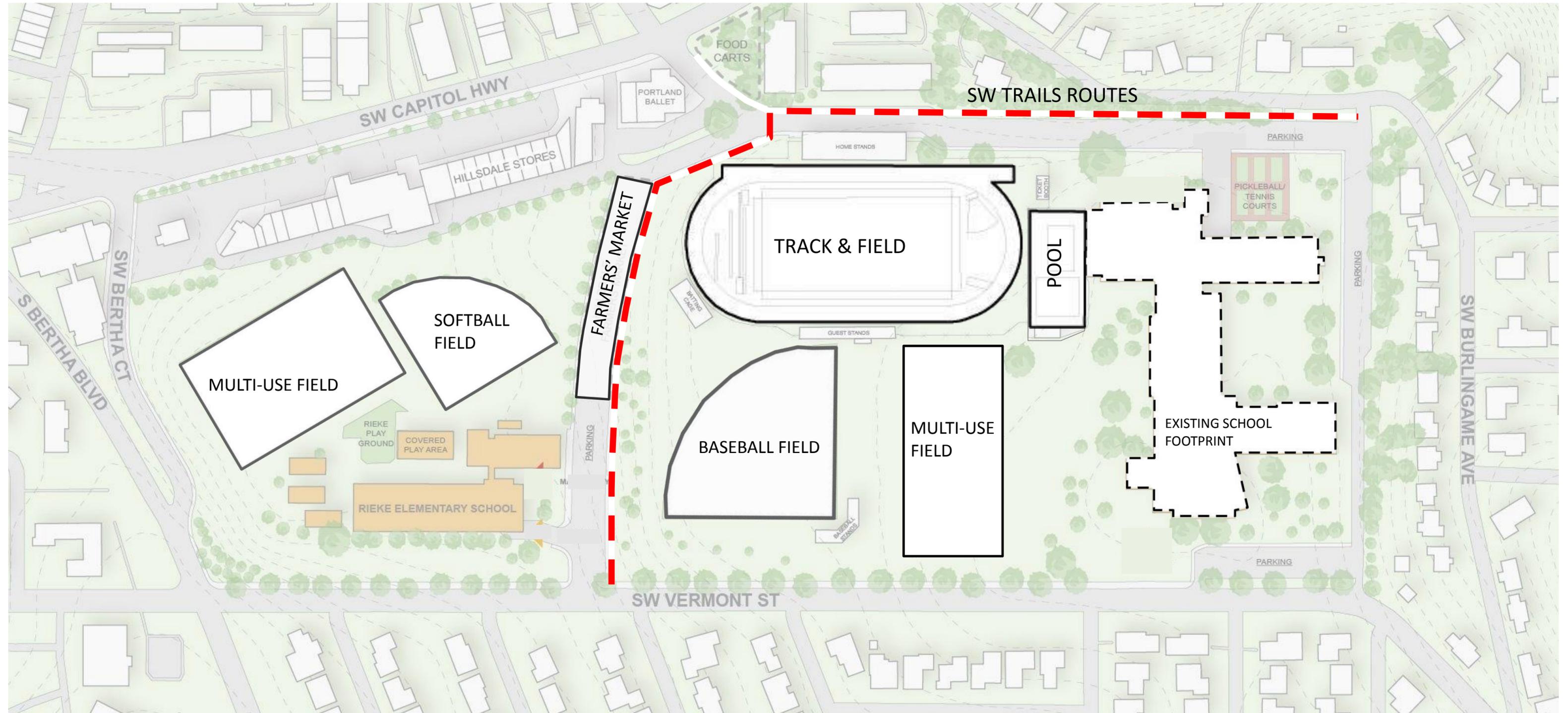
SCHEME 1 - BUILDABLE AREA



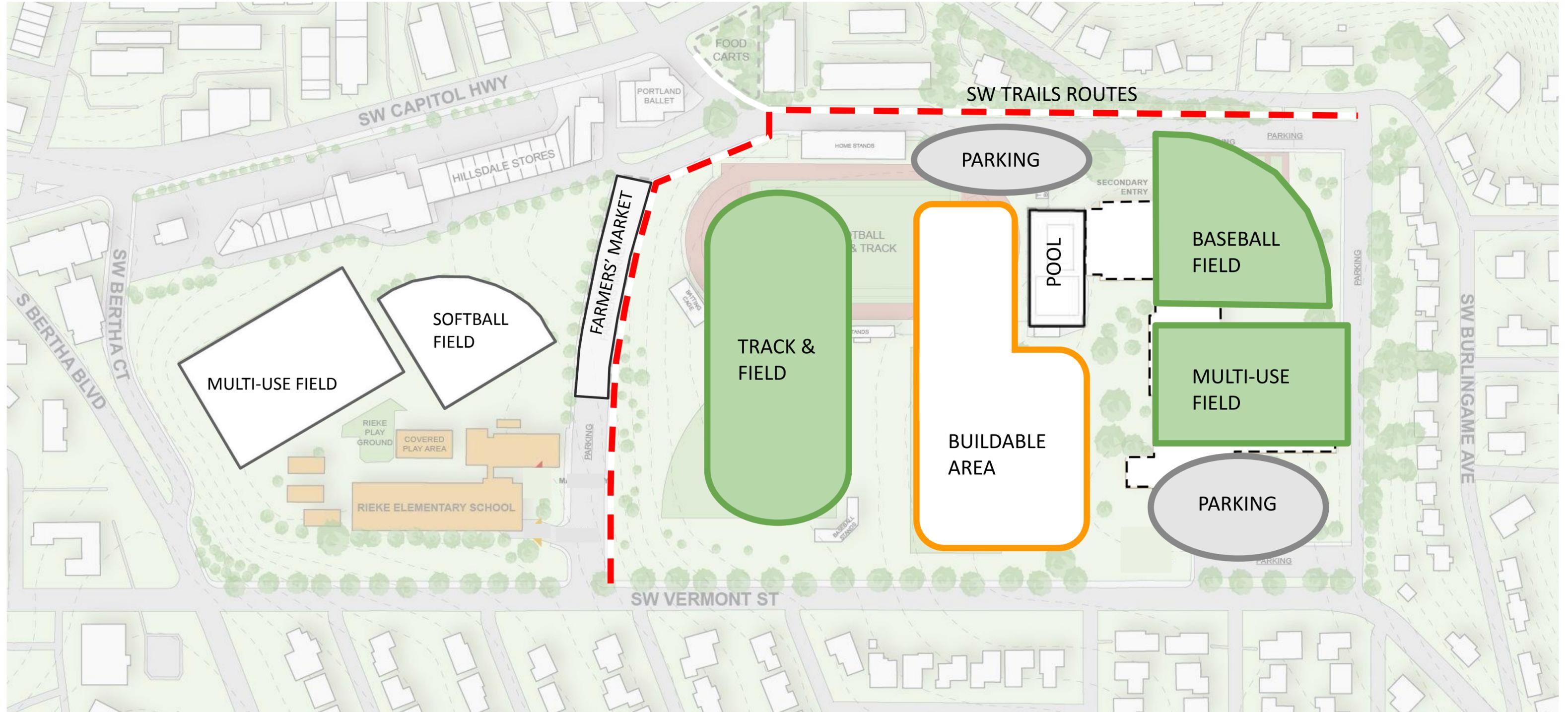
SCHEME 1 - PEDESTRIAN APPROACH



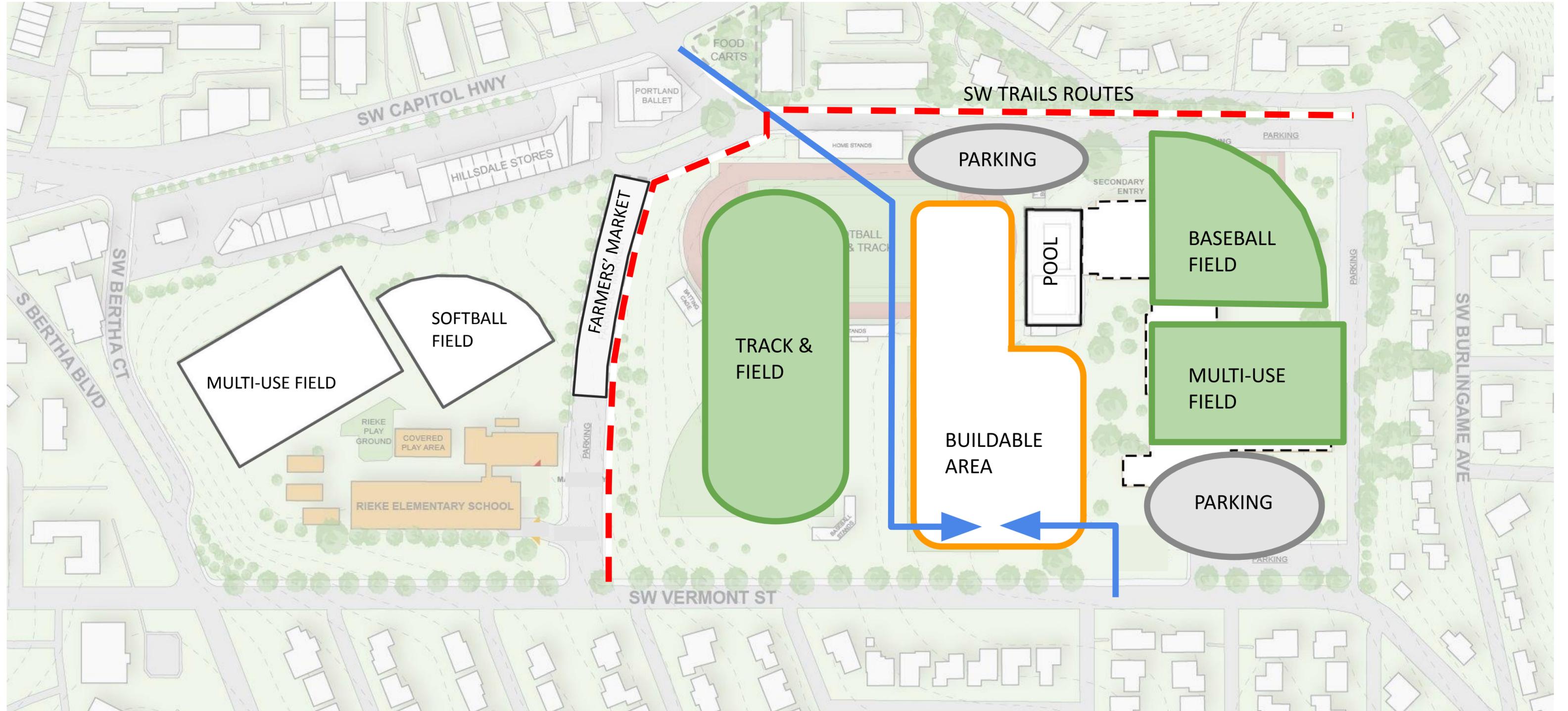
EXISTING SITE - MAJOR ELEMENTS



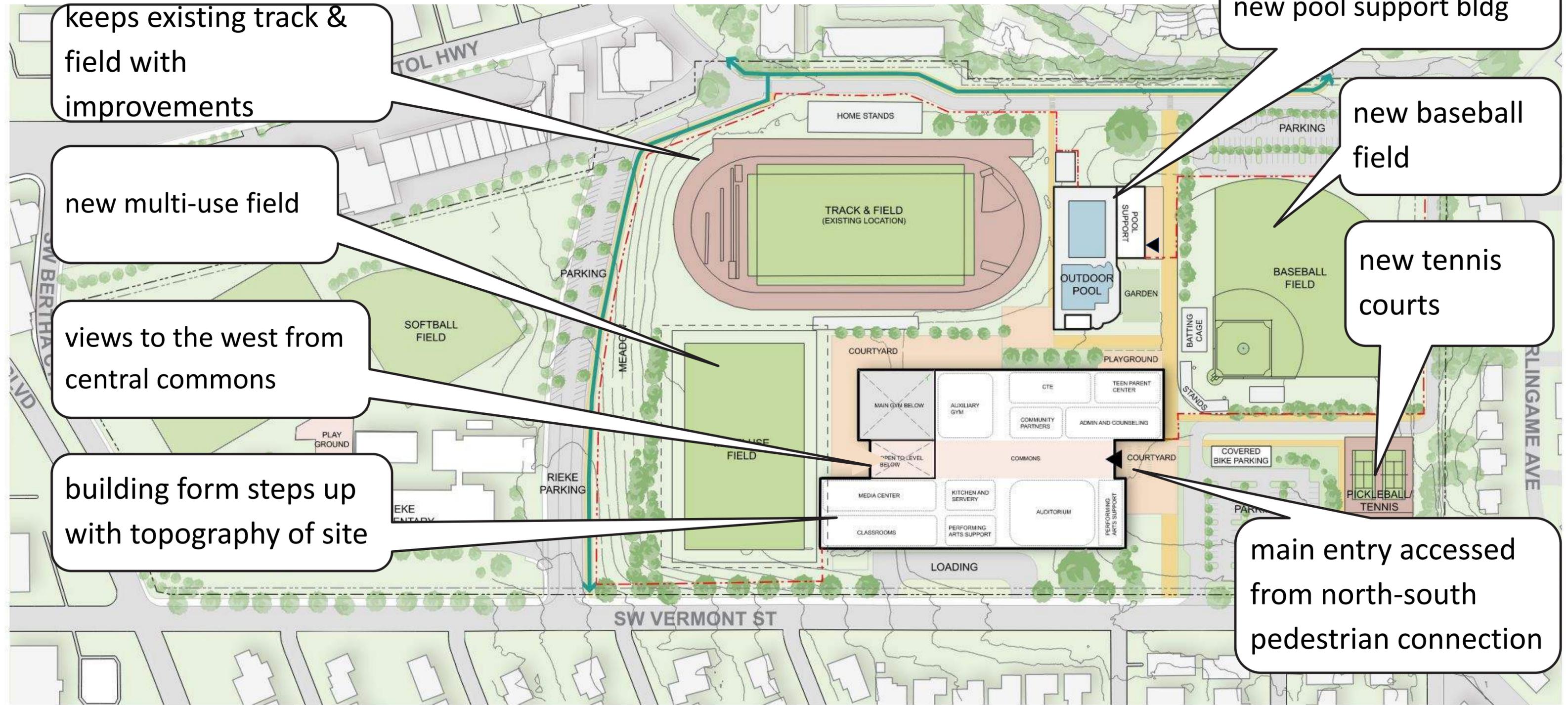
SCHEME 2 - BUILDABLE AREA



SCHEME 2 - PEDESTRIAN APPROACH



SCHEME 1



keeps existing track & field with improvements

new multi-use field

views to the west from central commons

building form steps up with topography of site

keeps existing pool, adds new pool support bldg

new baseball field

new tennis courts

main entry accessed from north-south pedestrian connection

SCHEME 01

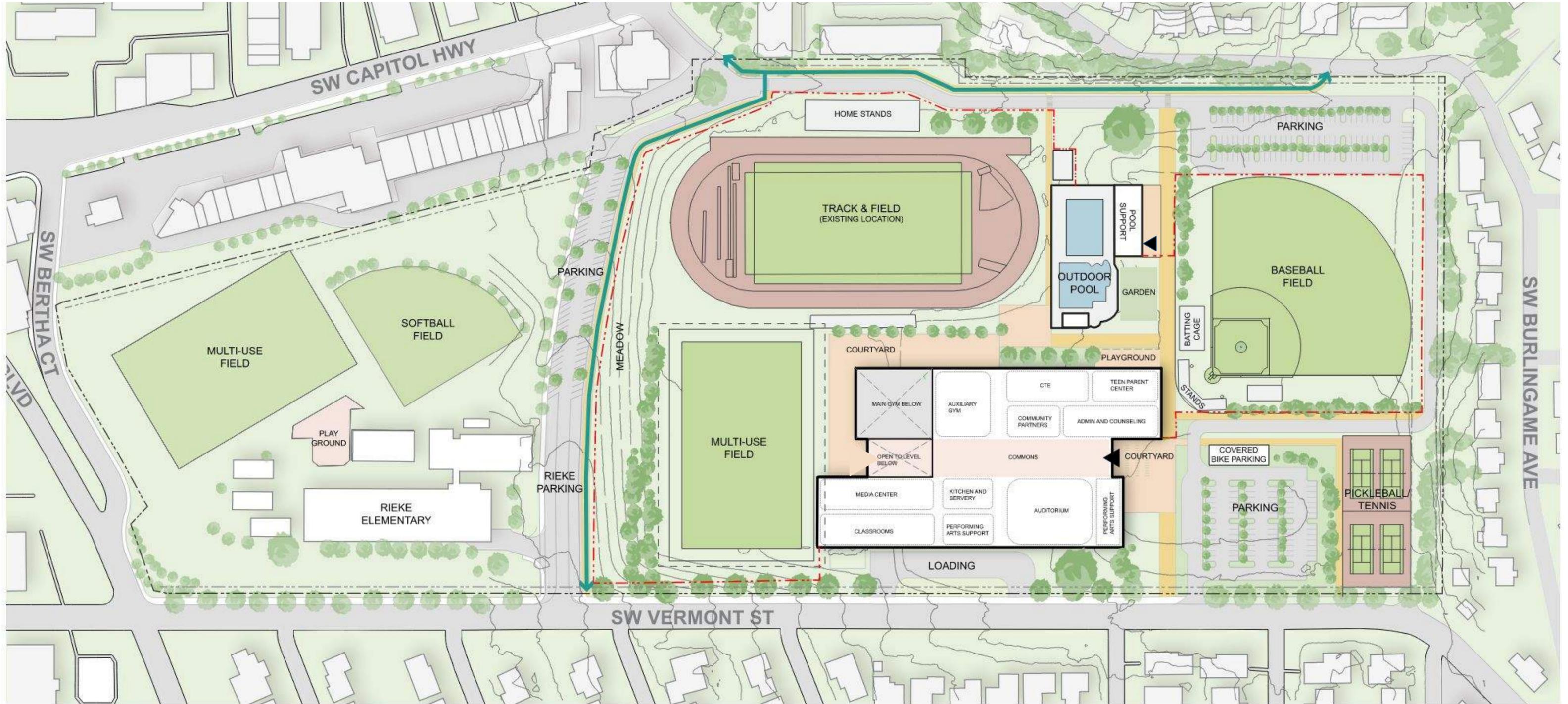


KEY:

Securable Perimeter

SW Trails

SCHEME 1



SCHEME 01

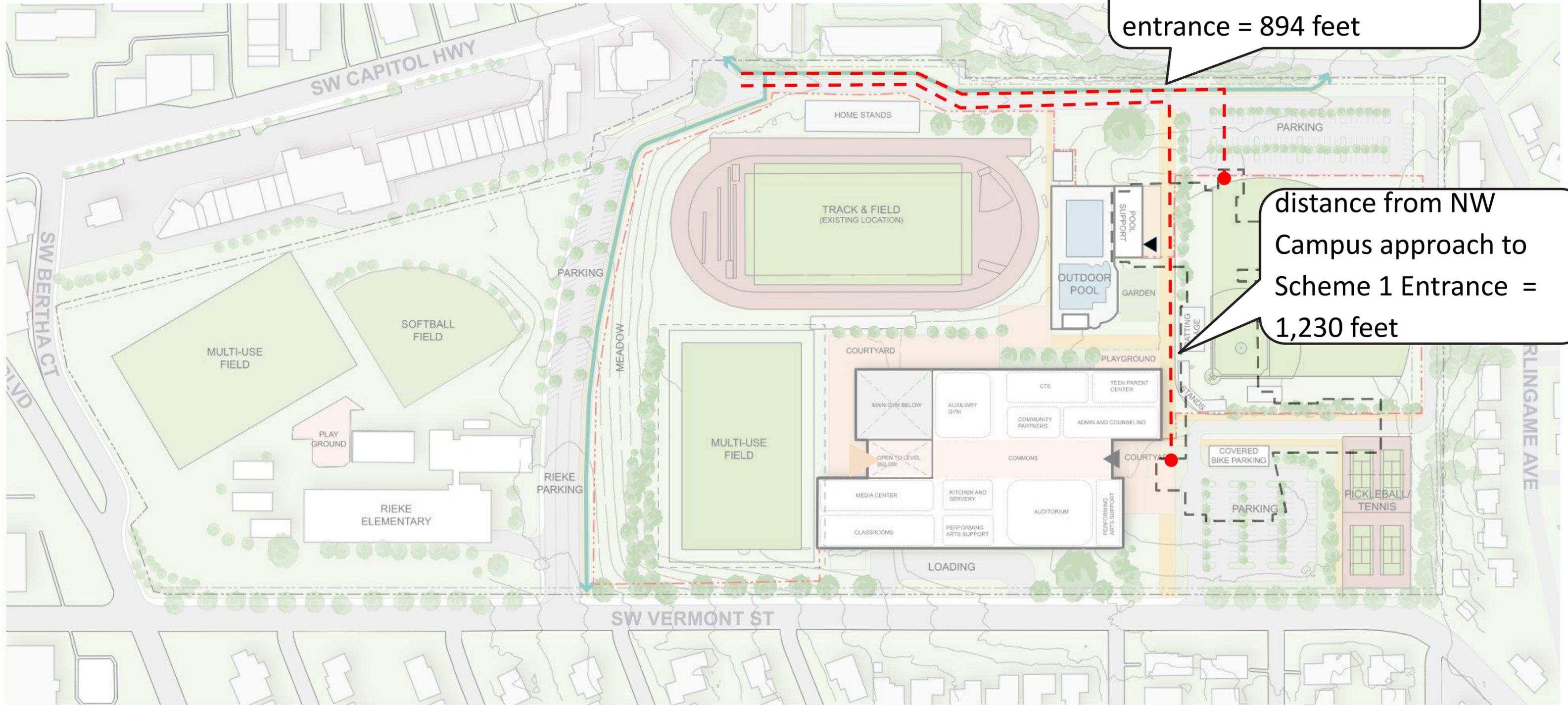


KEY:

Securable Perimeter

SW Trails

SCHEME 1 - DISTANCE TO ENTRY FROM NW APPROACH



distance from NW Campus approach to existing north entrance = 894 feet

distance from NW Campus approach to Scheme 1 Entrance = 1,230 feet

SCHEME 01

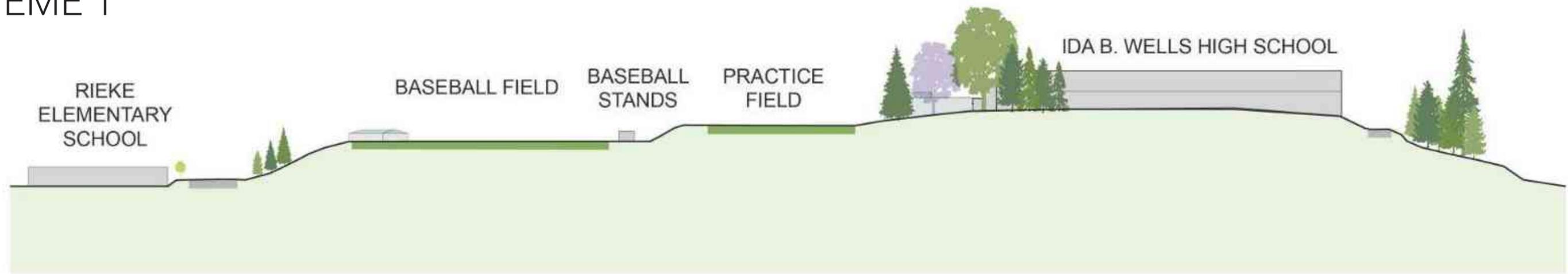


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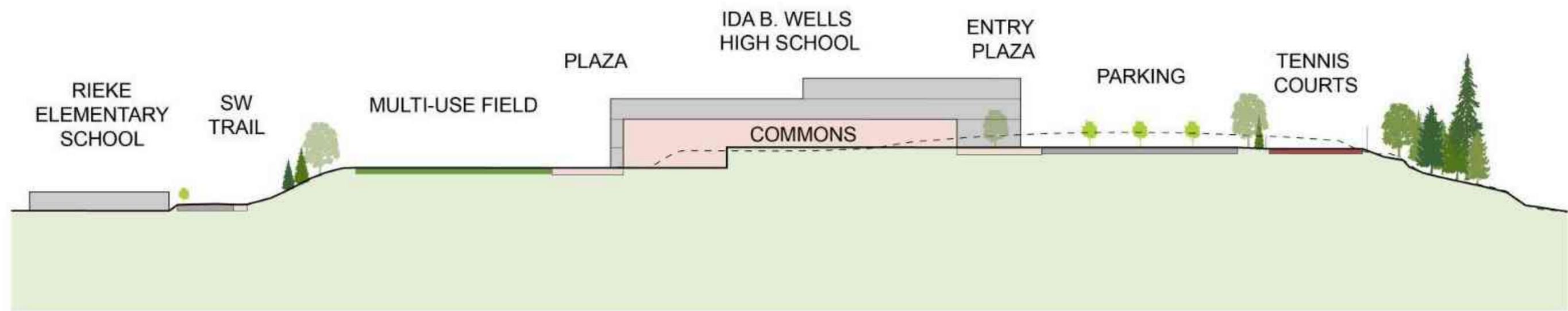
Securable Perimeter

SW Trails

SCHEME 1

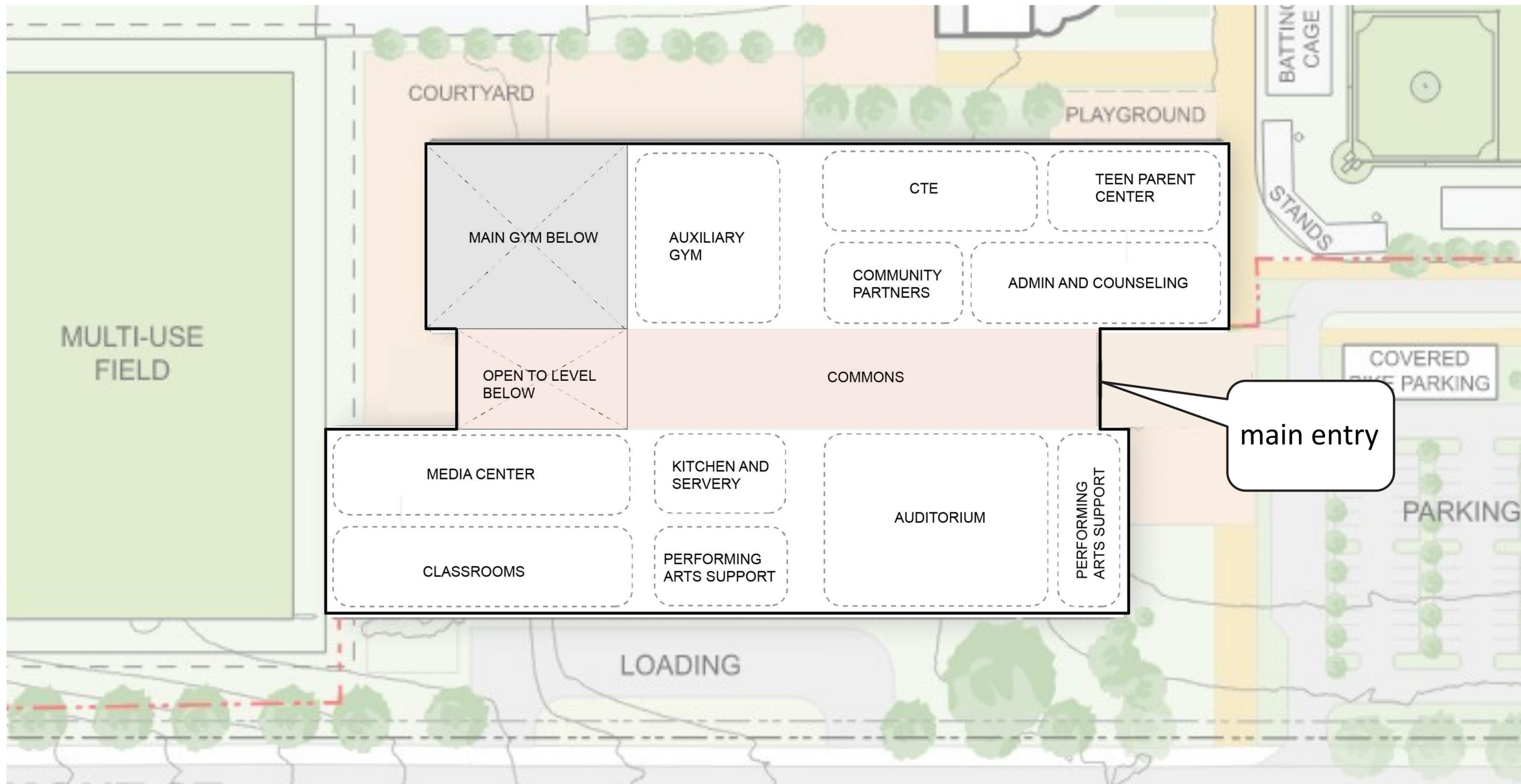


EXISTING CONDITIONS

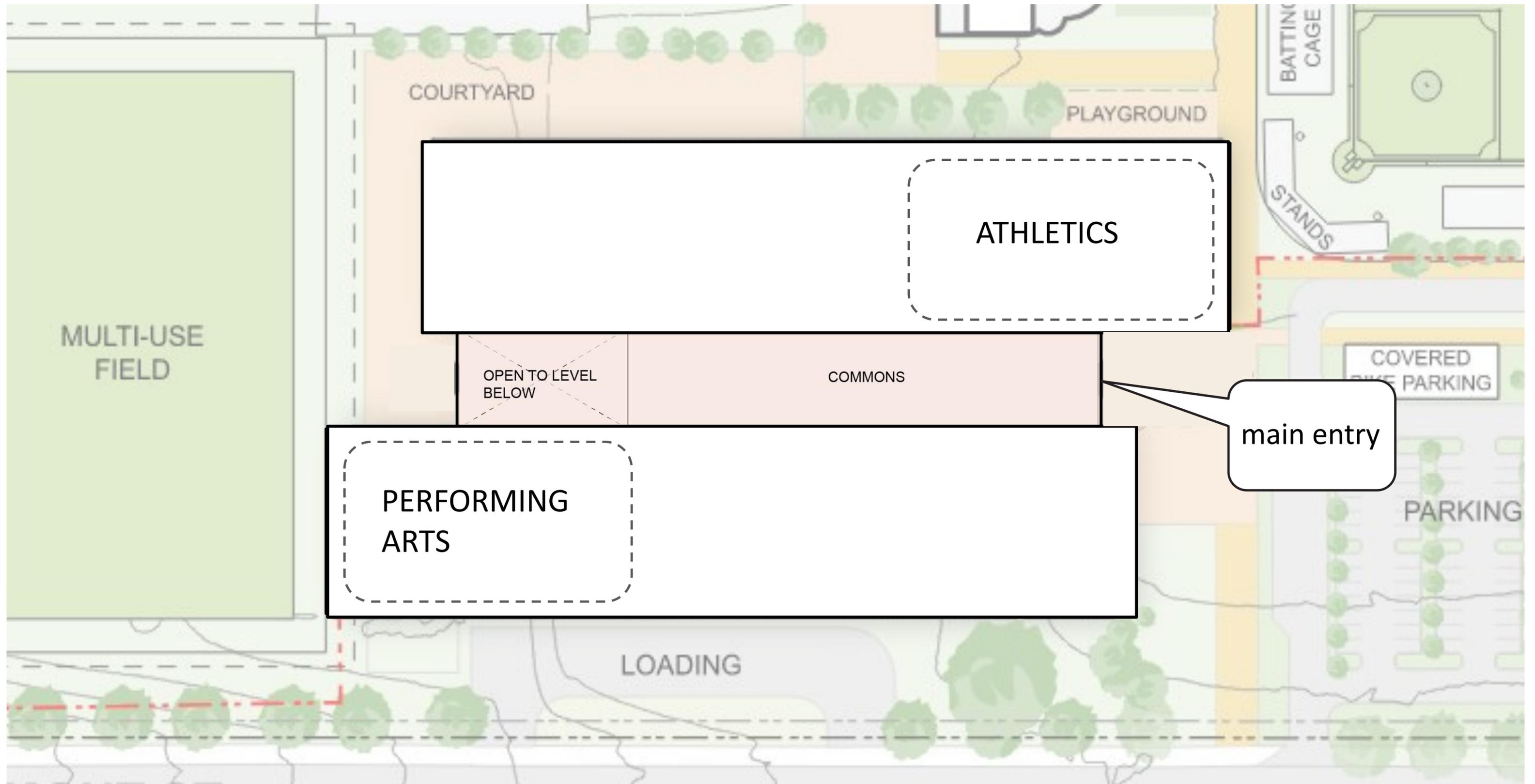


SCHEME 1

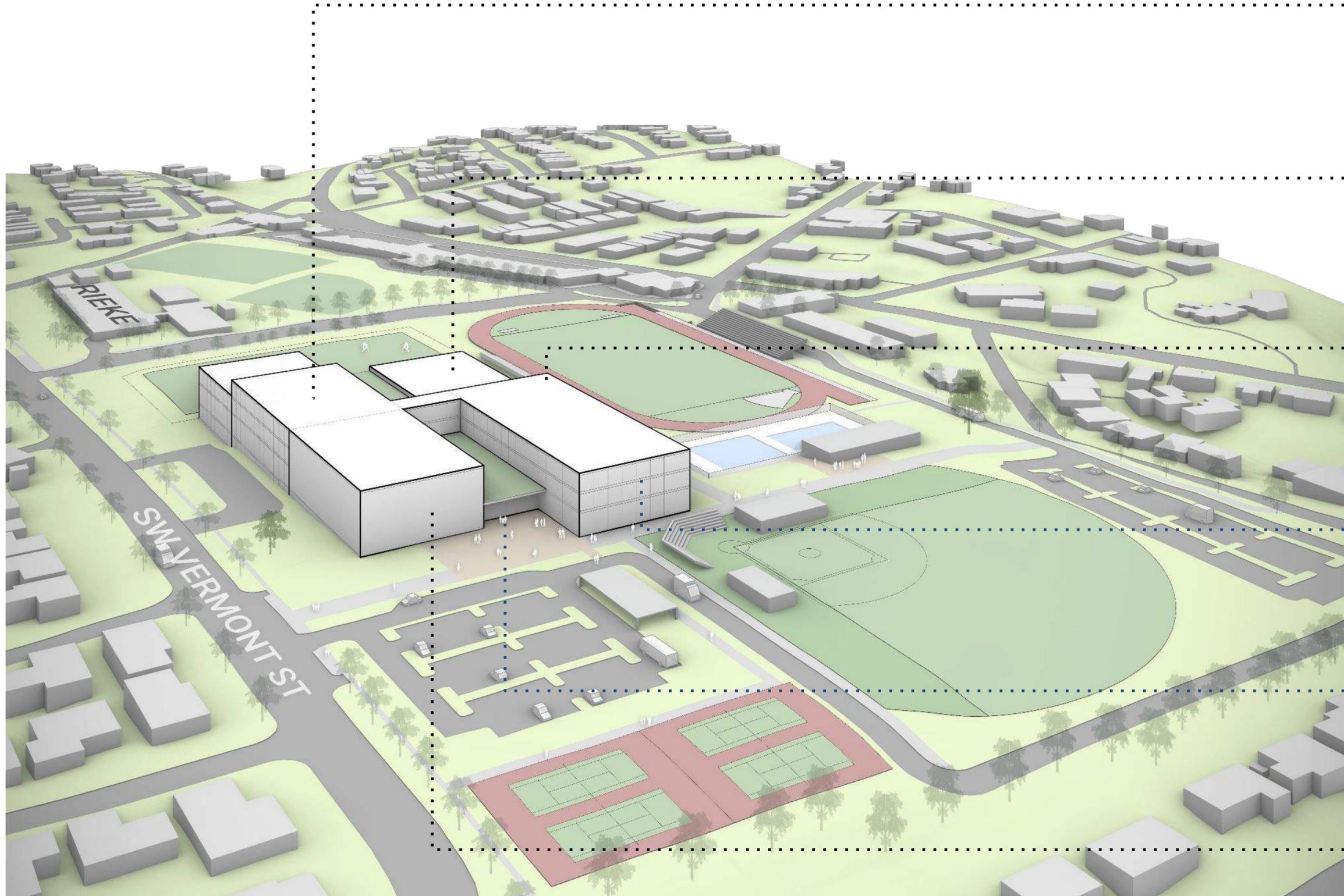
SCHEME 1



SCHEME 1 - ALTERNATE PLAN



SCHEME 1



Building form steps up with natural topography of site

Gyms and athletics close to track & field and multi-use field

Primary "bars" running east-west to minimize western sun exposure

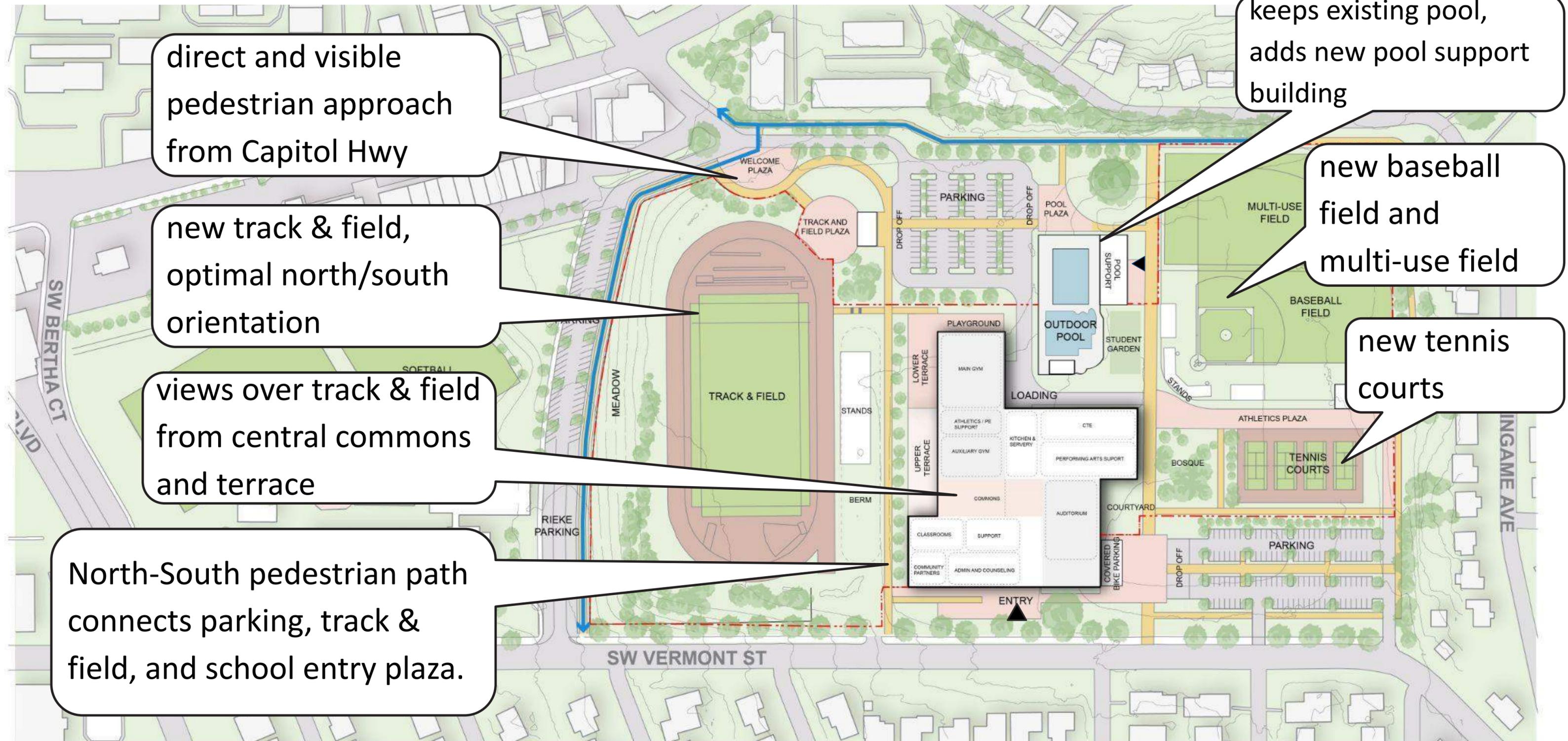
Classrooms primarily on upper levels

Main entry connects to central commons

Auditorium close to main entry

Massing - Aerial View

SCHEME 2



direct and visible pedestrian approach from Capitol Hwy

new track & field, optimal north/south orientation

views over track & field from central commons and terrace

North-South pedestrian path connects parking, track & field, and school entry plaza.

keeps existing pool, adds new pool support building

new baseball field and multi-use field

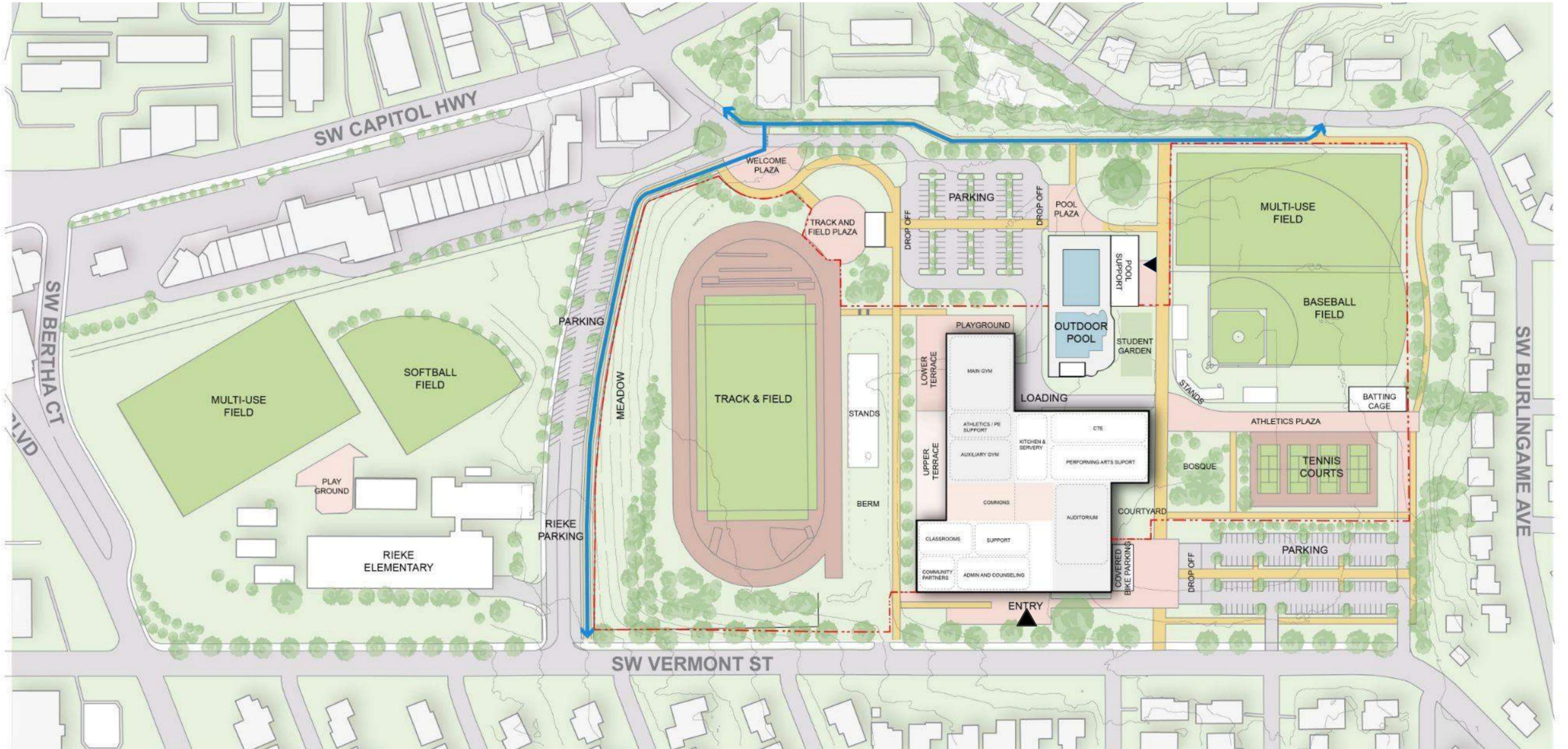
new tennis courts

SCHEME 02



KEY: Securable Perimeter SW Trails

SCHEME 2



SCHEME 02



KEY:

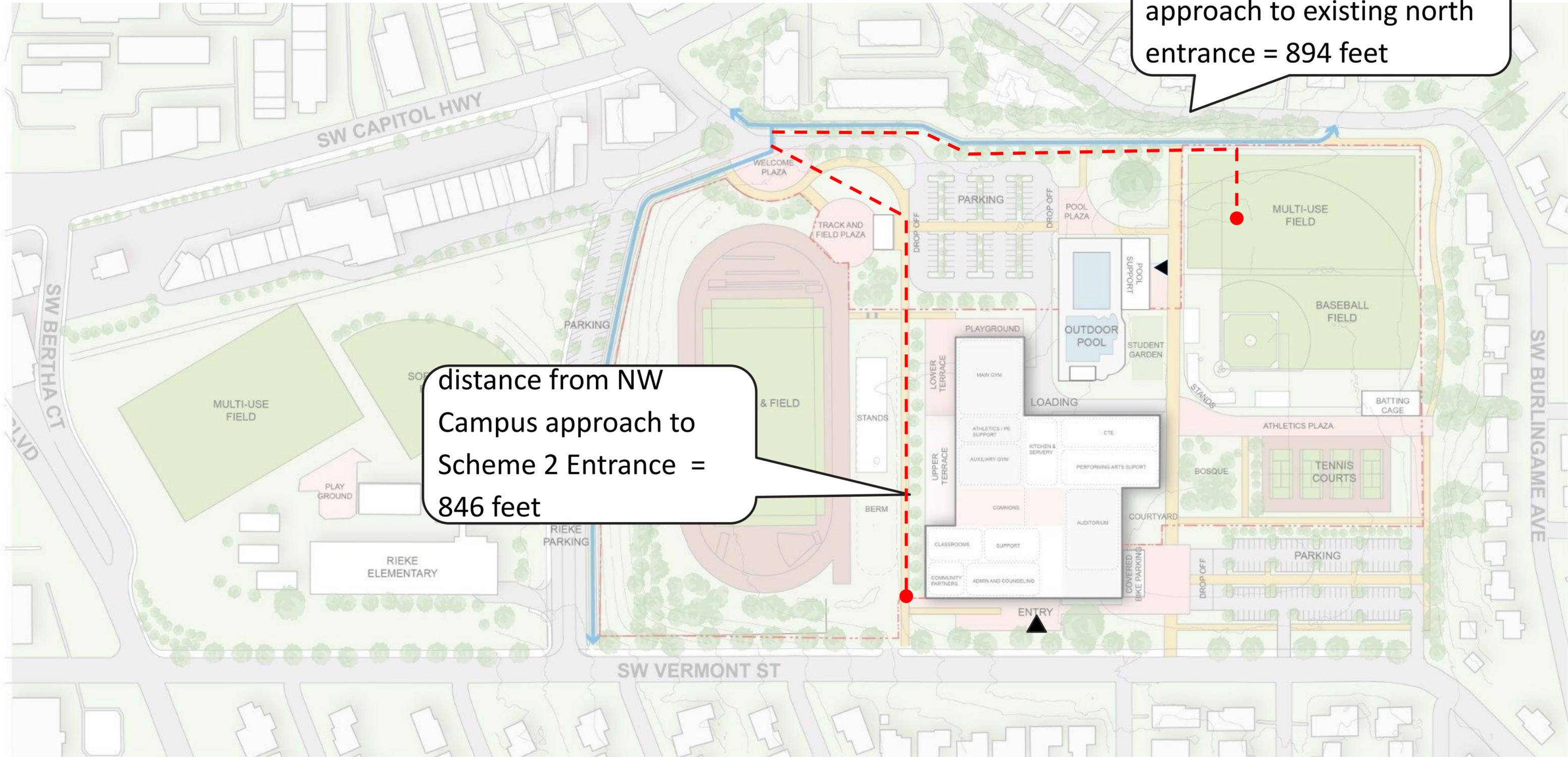
Securable Perimeter

SW Trails

SCHEME 2 - WALKING DISTANCE FROM NW APPROACH

distance from NW Campus approach to existing north entrance = 894 feet

distance from NW Campus approach to Scheme 2 Entrance = 846 feet

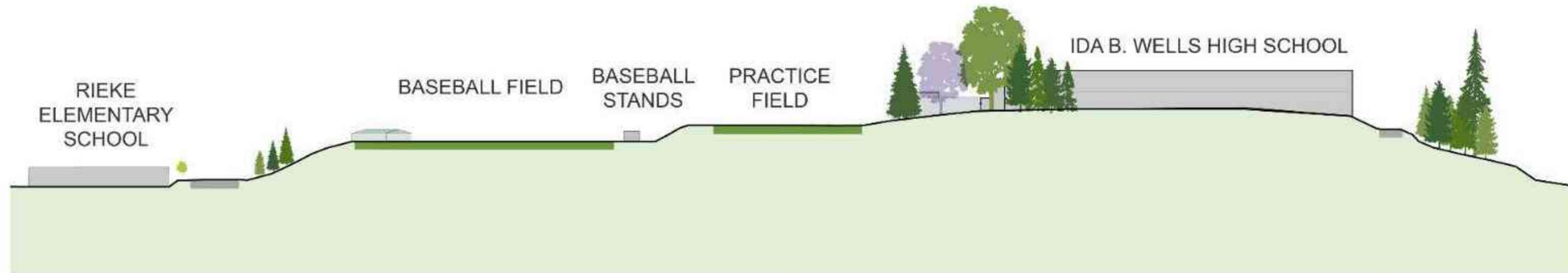


SCHEME 02

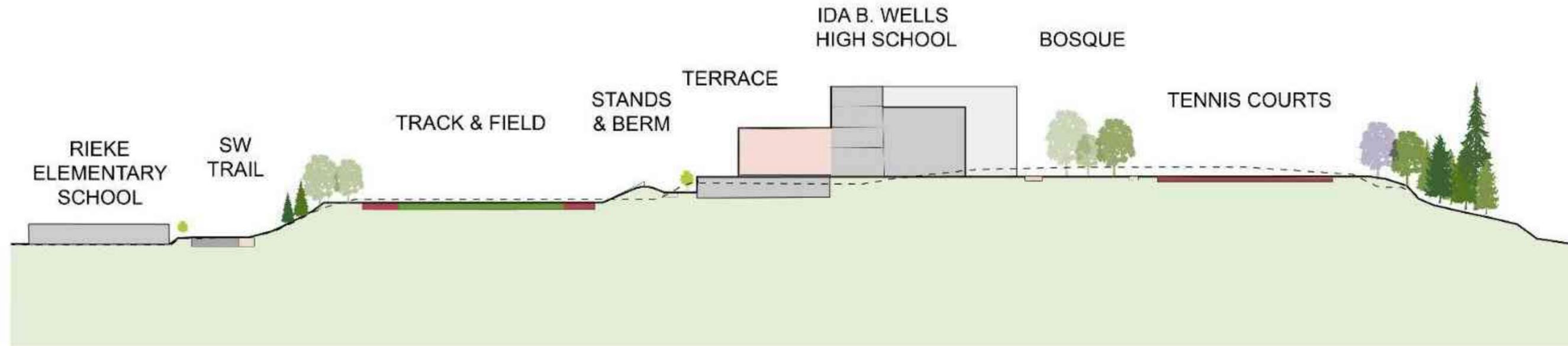


KEY:
 - A red dashed line icon followed by the text 'Securable Perimeter'.
 - A blue arrow icon followed by the text 'SW Trails'.

SCHEME 2

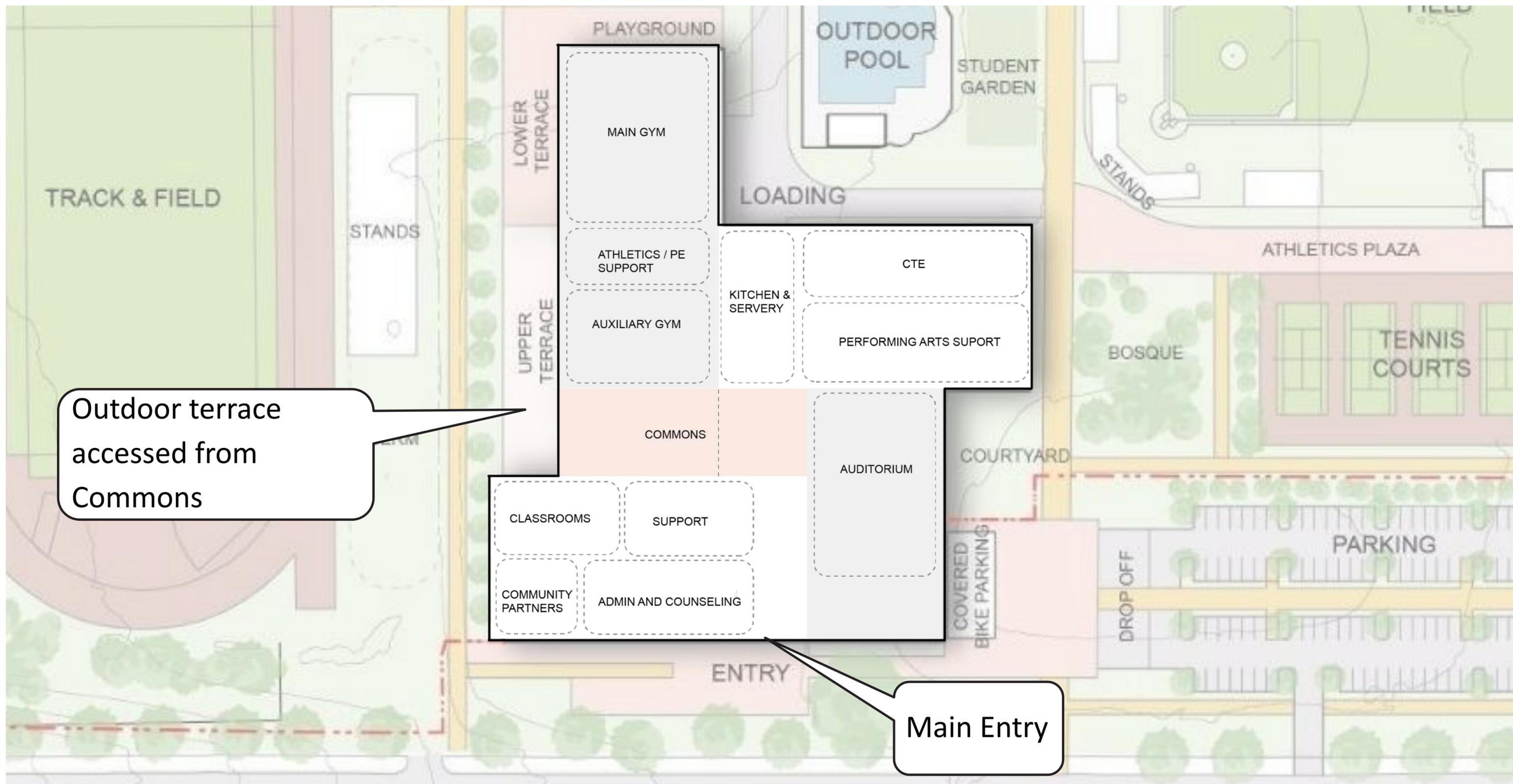


EXISTING CONDITIONS

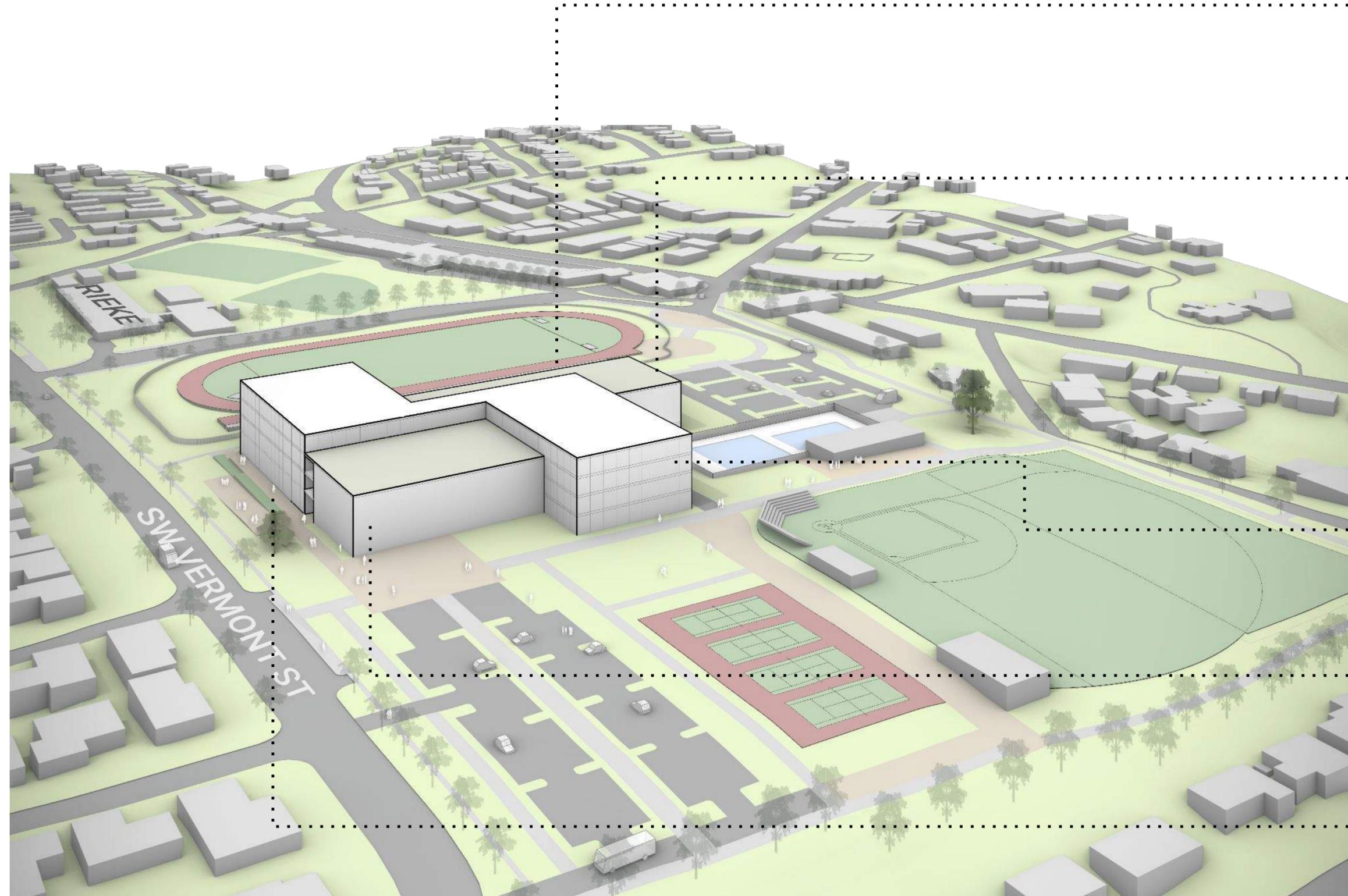


SCHEME 2

SCHEME 2



SCHEME 2



Building form connects to both Capitol Hwy and Vermont St. approaches

Gyms and athletics close to track & field and Capitol Hwy. approach

Primary "bars" running east-west to minimize western sun exposure

Classrooms on upper levels

Auditorium close to main entry

Main entry visible and easy to approach from Capitol Hwy and Vermont St.

Massing - Aerial View

SCHEME 1



Massing - View from Vermont St. (Southeast)

SCHEME 2



Massing - View from Vermont St. (Southeast)

SCHEME 1



Massing - View from Capitol Hwy Approach

SCHEME 2



Massing - View from Capitol Hwy Approach

SCHEME 1



Massing - View from Vermont St. (Southwest)

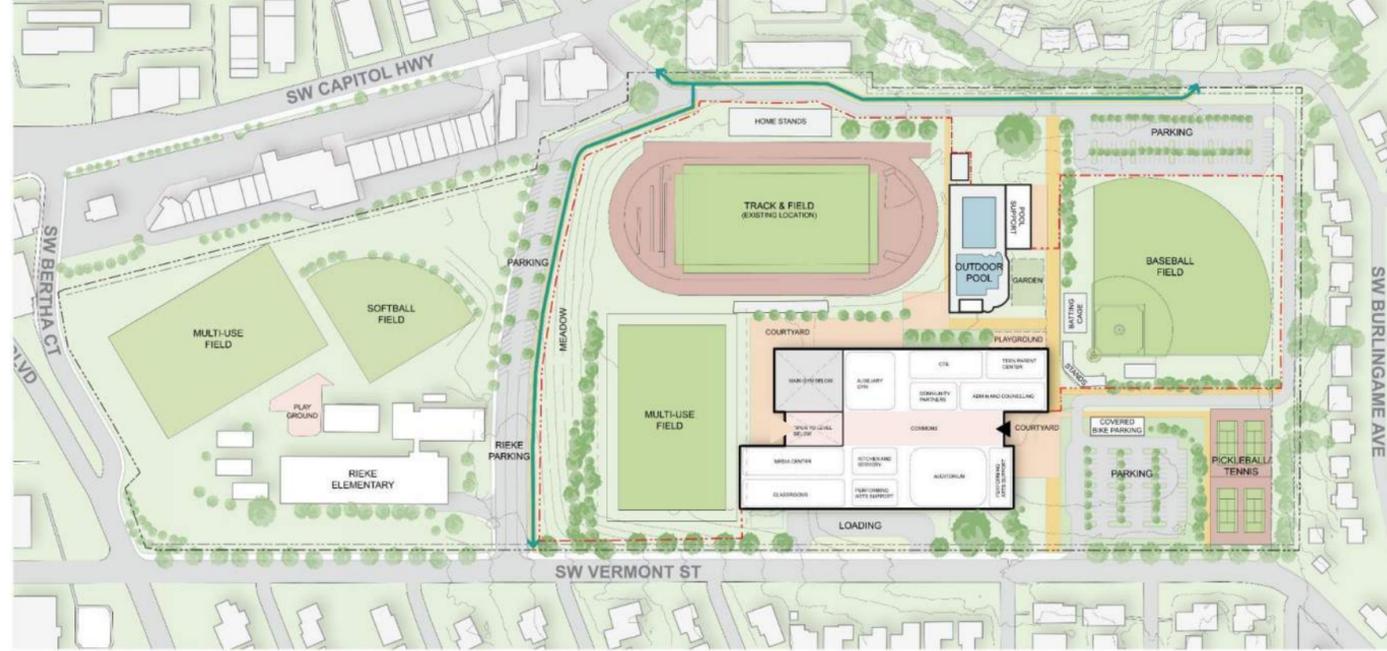
SCHEME 2



Massing - View from Vermont St. (Southwest)

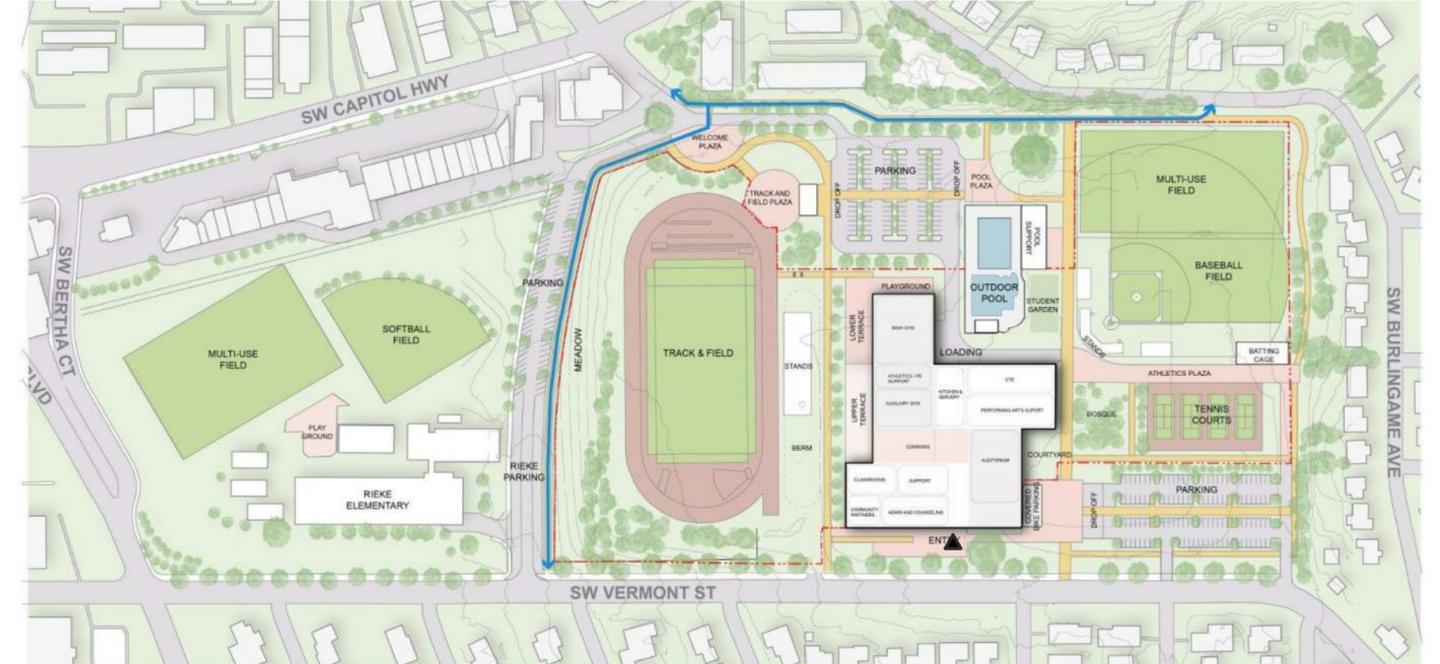
SITE CONCEPTS - SUMMARY

SCHEME 1



- keeps existing track & field with improvements
- building form “steps up” with topography of site, with upper and lower courtyards
- keeps existing pool, adds new pool support building
- new tennis courts
- new baseball field and multi-use field
- improved softball field

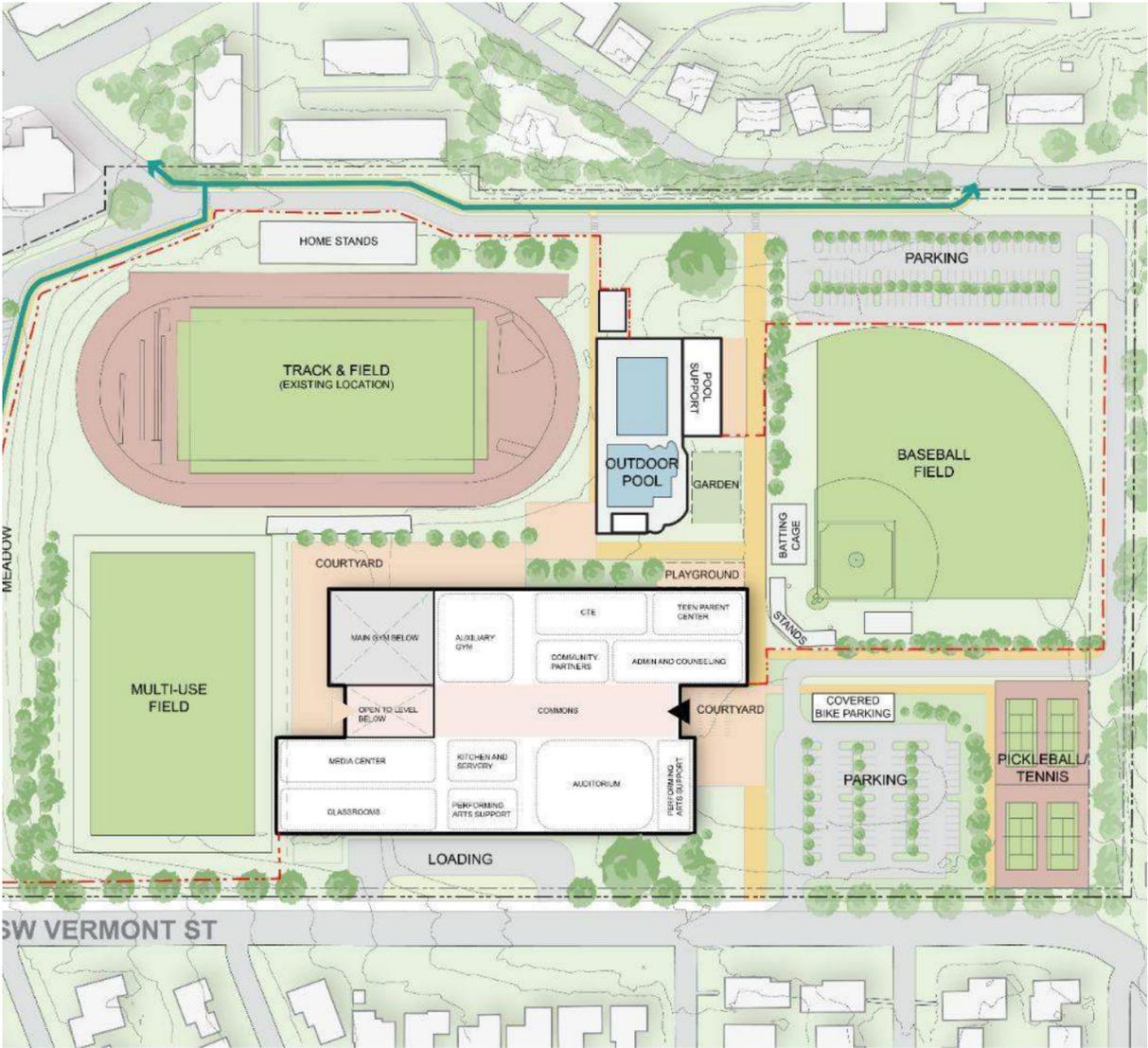
SCHEME 2



- new track & field moved to N-S position
- building form connects to both Capitol Hwy and Vermont Street with central, connected entry
- keeps existing pool, adds new pool support building
- new tennis courts
- new baseball field and multi-use field
- improved softball field

SITE CONCEPTS - EVALUATION / TRADE-OFFS

SCHEME 1



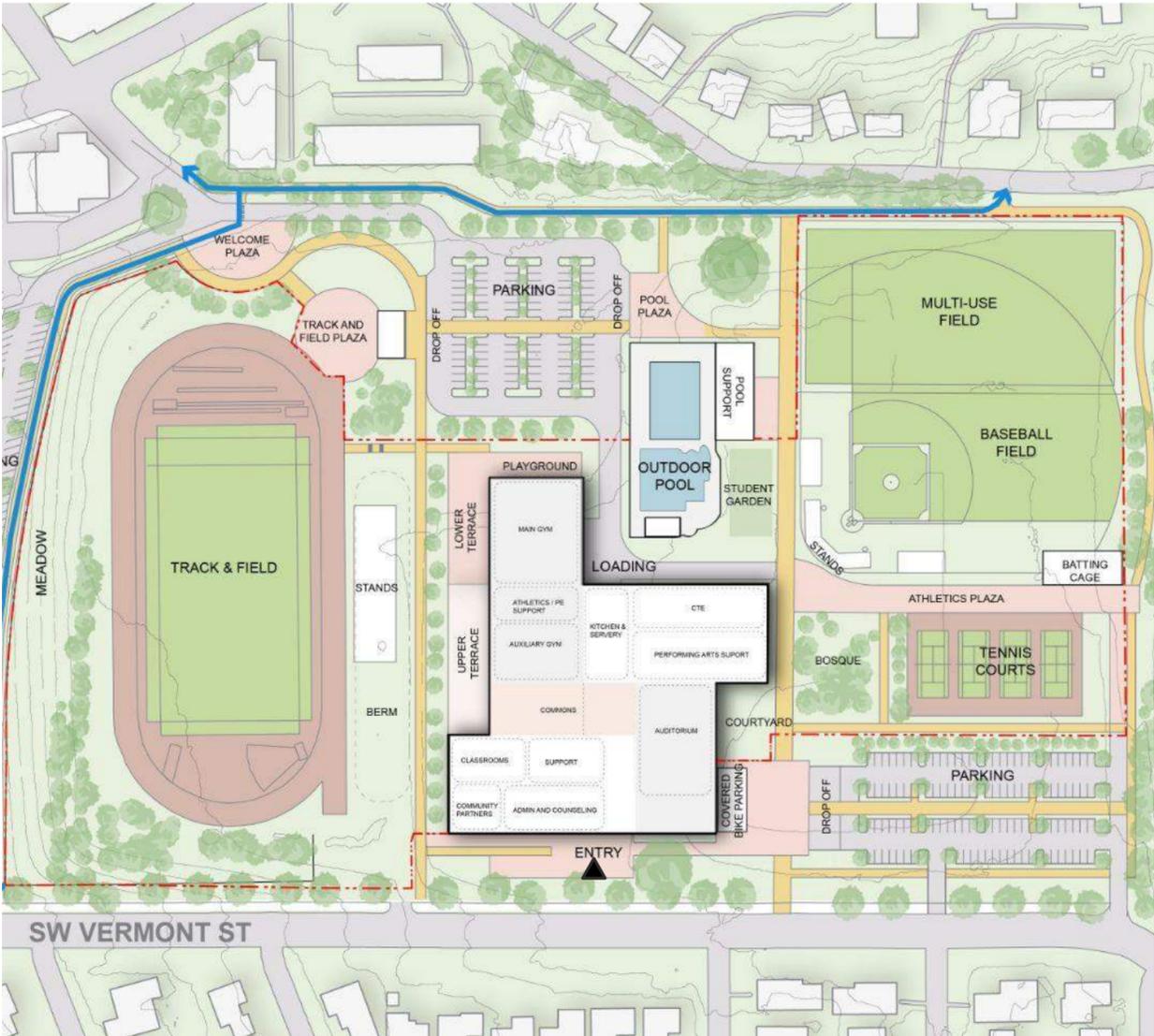
PROJECT COSTS

- ◀ LOWER BUILDING COST
- ◀ LOWER SITE COST
- ◀ SHORTER CONSTR. DURATION

EXPERIENCE & FUNCTIONALITY

- ▶ BETTER CONNECTION TO CAPITOL HWY
- ▶ IMPROVED FUTURE TRACK & FIELD OPERATION
- ◀ NO TRACK & FIELD DISRUPTION (3 YR)
- ◀ PROVIDES CROSS-SITE VEHICLE DRIVE
- ▶ VEHICLE ACCESS TO BOTH ENDS OF BUILDING
- ▶ FLEXIBLE LOADING FUNCTIONALITY

SCHEME 2



Feedback Exercise



Self Reflection 00:10

For each site option, please write on post-it notes:

What are the trade-off / priorities?

What is successful?

What are some challenges?

Walk About: 00:45

Post Answers on Boards + Discuss

Review comments posted on each option

Discuss common themes and trade-offs

Additional Feedback?

WellsBond@pps.net

Public Comment



Next Steps



NEXT STEPS

CPC #5: Thursday 2/22, 6-8pm

- we will bring a preview of the **Board of Education Packet**
- we will bring draft “final” **Vision Statement** and **Guiding Principles**

Board Packet: 3/5/24

- **final information** for the Board of Education Meeting on 4/2

Final open house: TBD (March)

- **overview** of the Board of Education Packet

Additional Feedback?

Website: pps.net/IdaBWellsBond

Email: WellsBond@pps.net

Questions?
THANK YOU