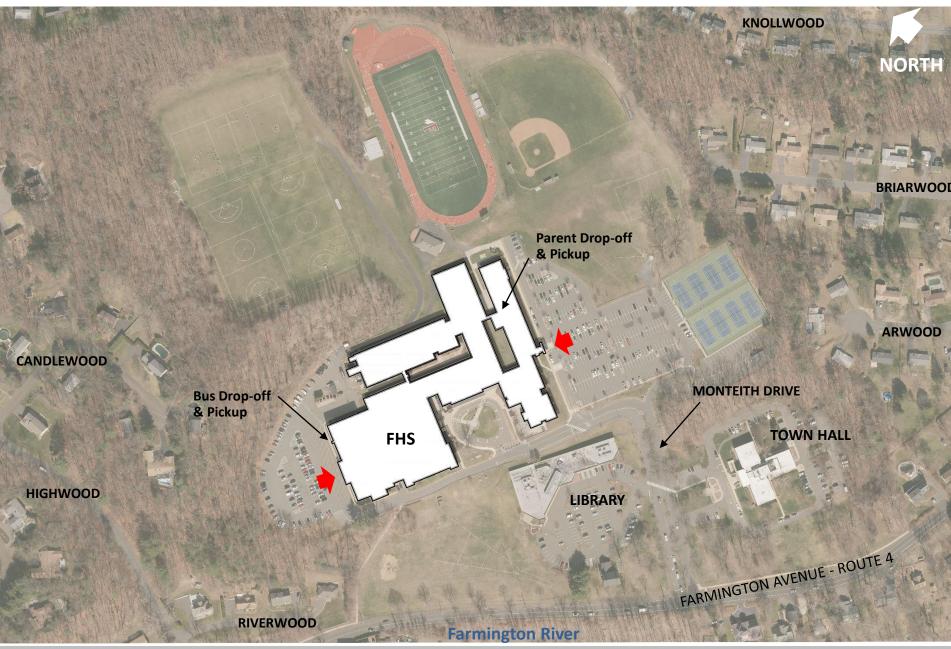
# Farmington High School

Creating New Possibilities | Option 3

## GA+M architecture BSC GROUP VANZELM MANDEL BSC GROUP

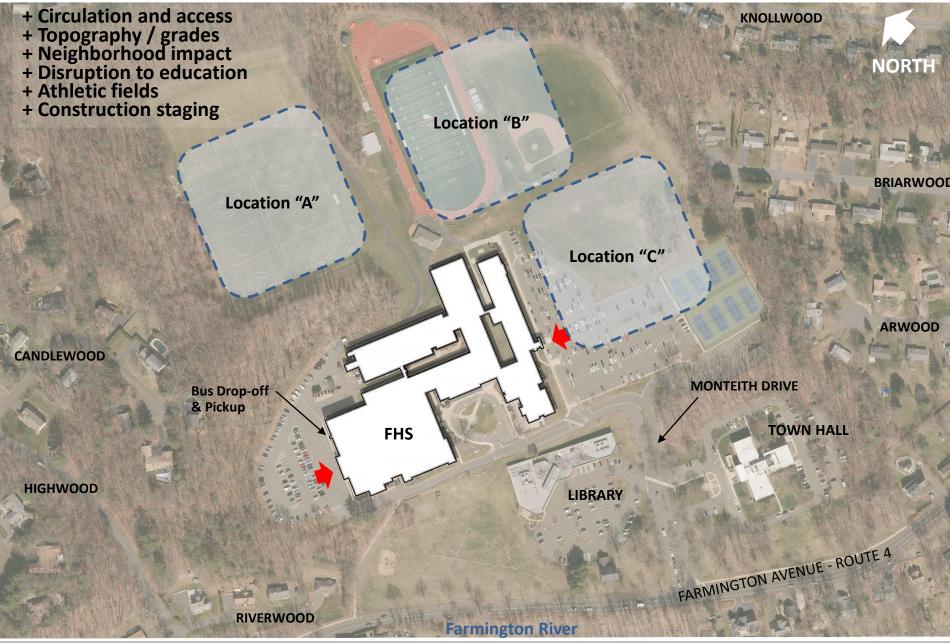
## **Existing Site**







## **Potential Building Locations**

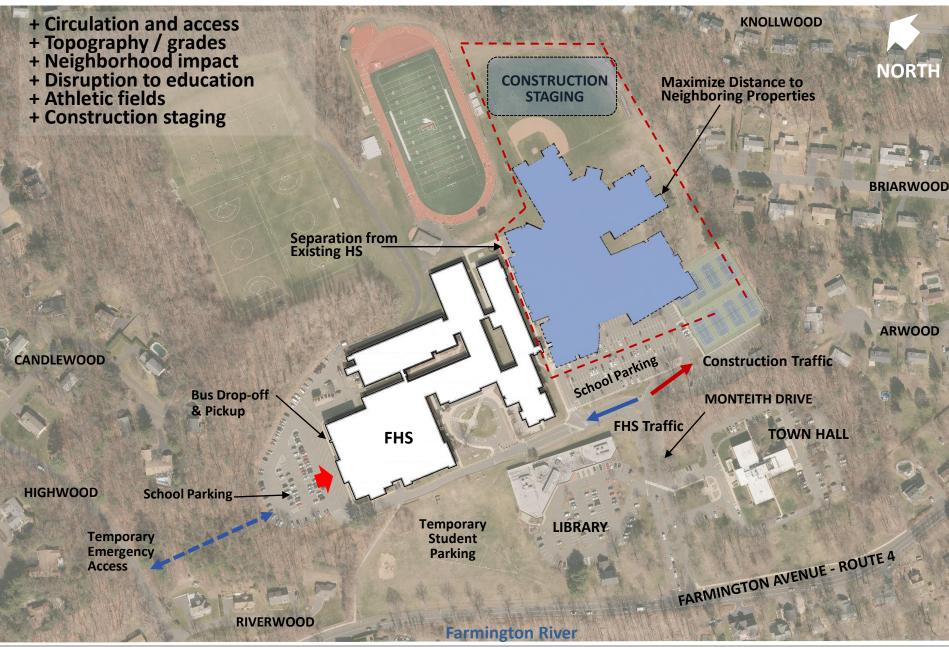


Farmington High School | Creating New Possibilities | Option 3

BSC GROUP



## **Potential Building Locations**

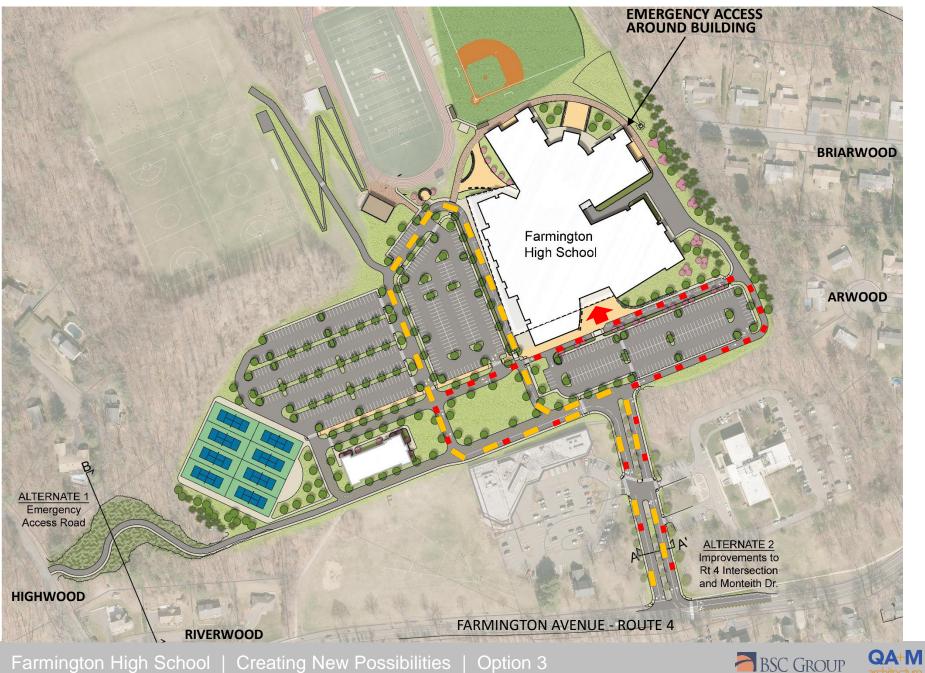


Farmington High School | Creating New Possibilities | Option 3

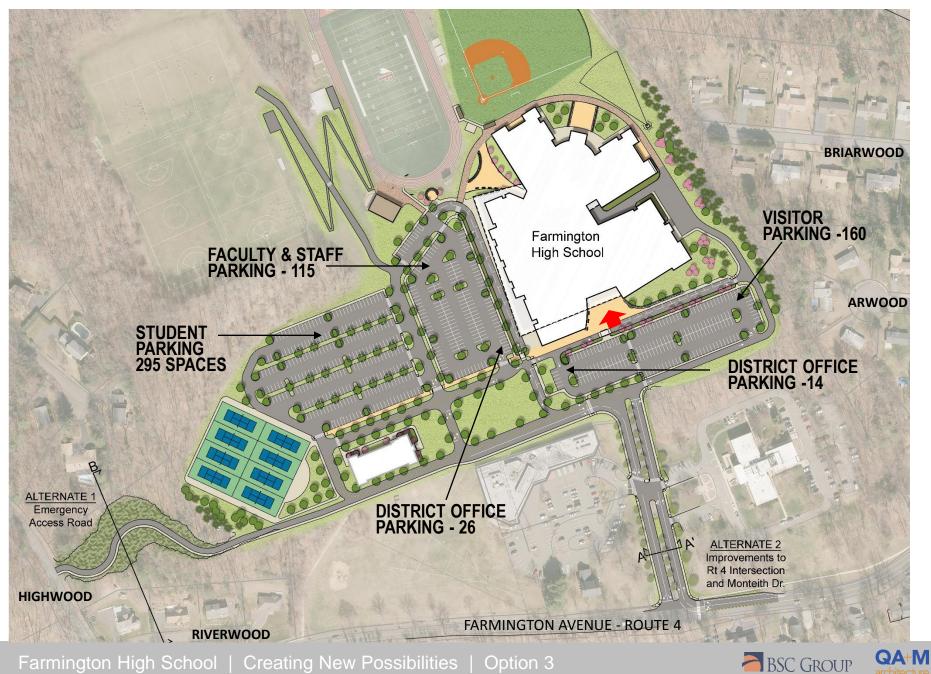
BSC GROUP



## **Vehicular Traffic**



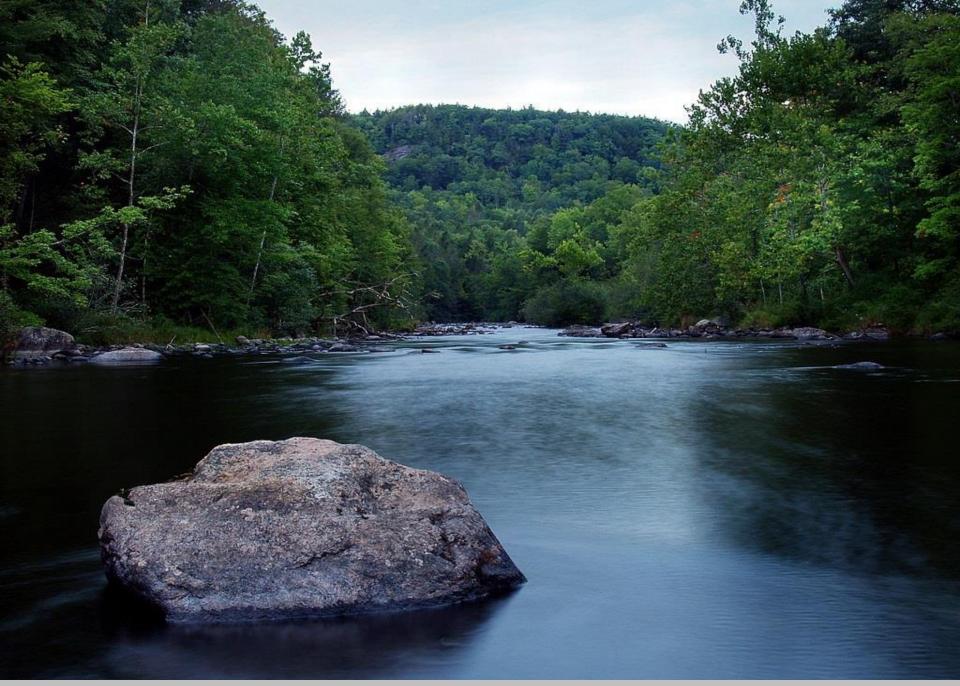
## **Parking – 610 spaces**





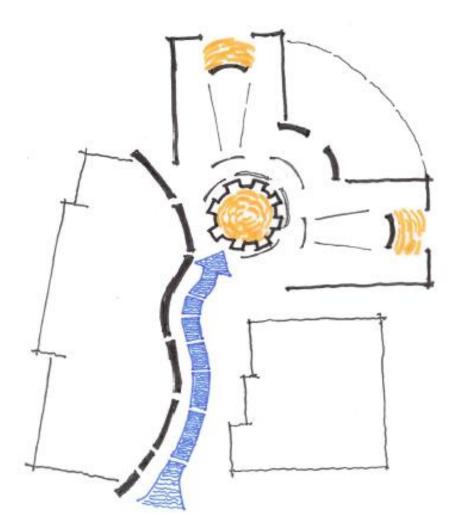








## Concept



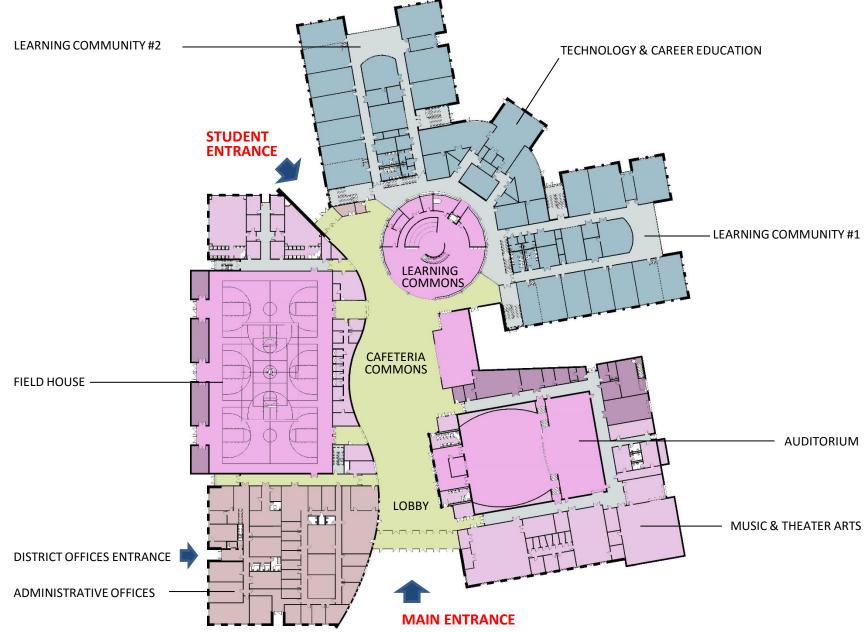


## **Main Entrance**





## **Concept Design**



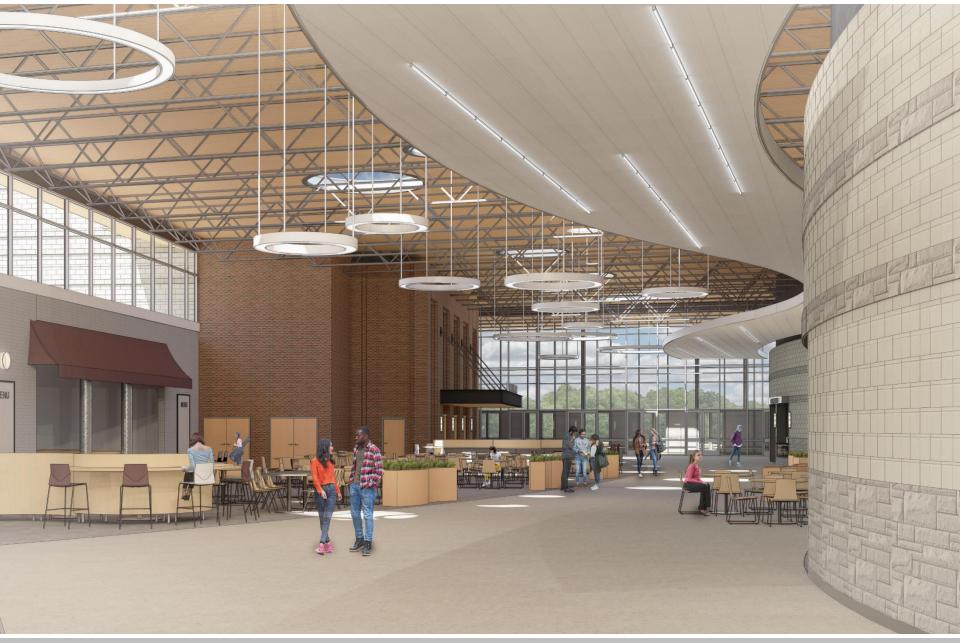


## **Entrance | Student Commons**





## Cafeteria | Commons



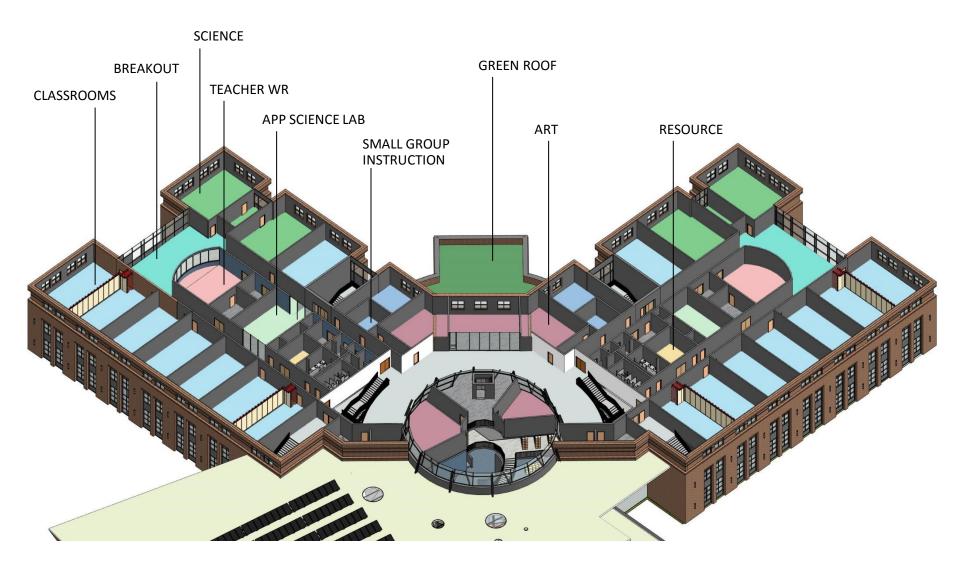


## Media Center | Cafe





## **Concept Design**



#### **THIRD FLOOR PLAN - LEARNING COMMUNITIES 5 & 6**



## Learning Community | Breakout / Collaboration





## Learning Community | Green Roof







## qamarch.com/fhsvideo



## **Building Exterior**

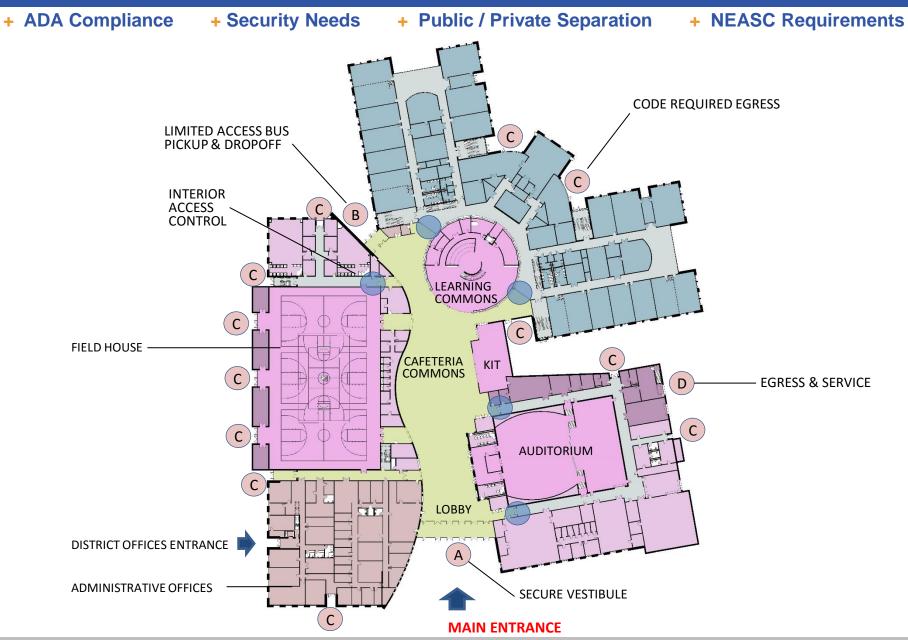




# Criteria



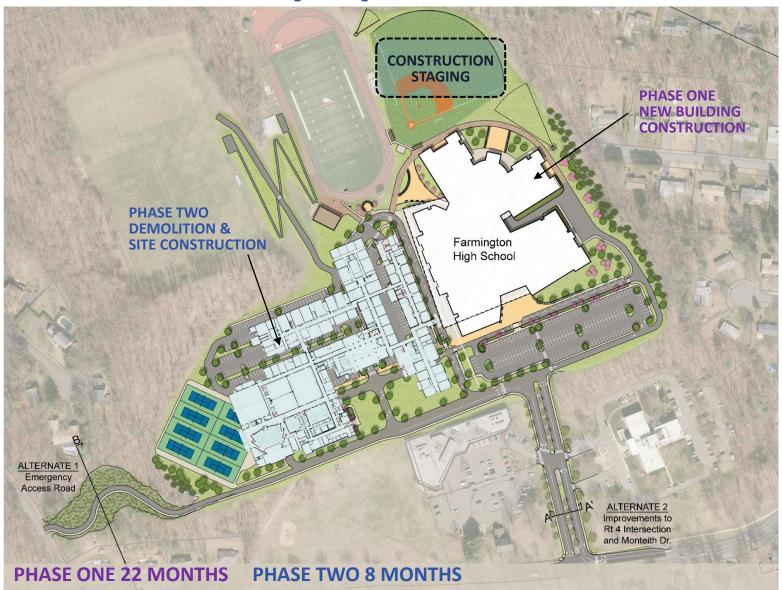
### **1** Local, State and Federal Requirements





## **2** Programmatic Needs

+ Education Disruption + Satisfies Ed Specs + Undersized Learning Spaces + Collaborative Learning
+ Space for New or Enhanced Educational Programming





## **3** Consolidation of Space

- + Reduce Sprawl and Improve Circulation + Utilization of Space + Robotics + Alternate High School
- + School District Administration Offices

#### **PROJECT DATA**

Projected Enrollment: 1,405 students State OSCGR Allowable: 253,602 Net SF 1928 Building Bonus Area: 6,000 Net SF Total Allowable Area: 259,602 Net SF District Offices Area: 9,626 Net SF\* Total Area: 269,228 Net SF Total Area Gross: 278.651 GSF

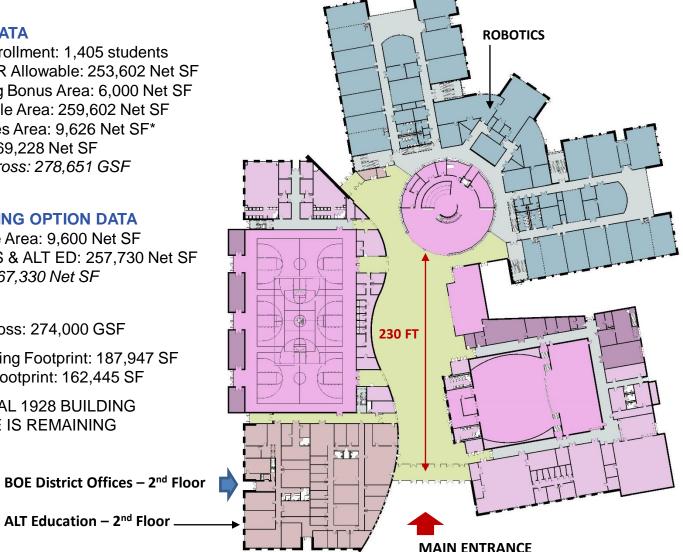
#### **NEW BUILDING OPTION DATA**

District Office Area: 9,600 Net SF Total Area HS & ALT ED: 257,730 Net SF Total Area: 267,330 Net SF

Total Area Gross: 274,000 GSF

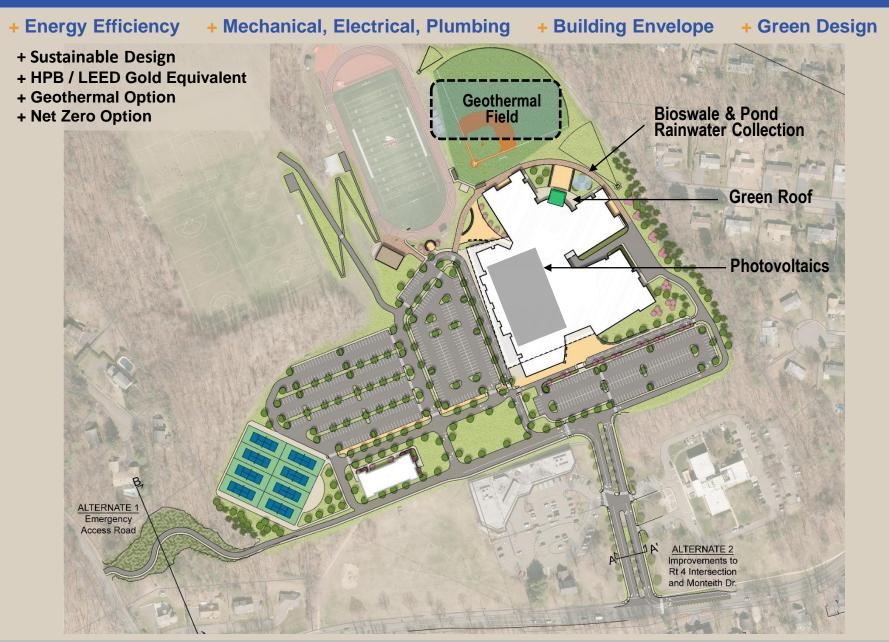
Original Building Footprint: 187,947 SF Option One Footprint: 162,445 SF

THE ORIGINAL 1928 BUILDING STRUCTURE IS REMAINING





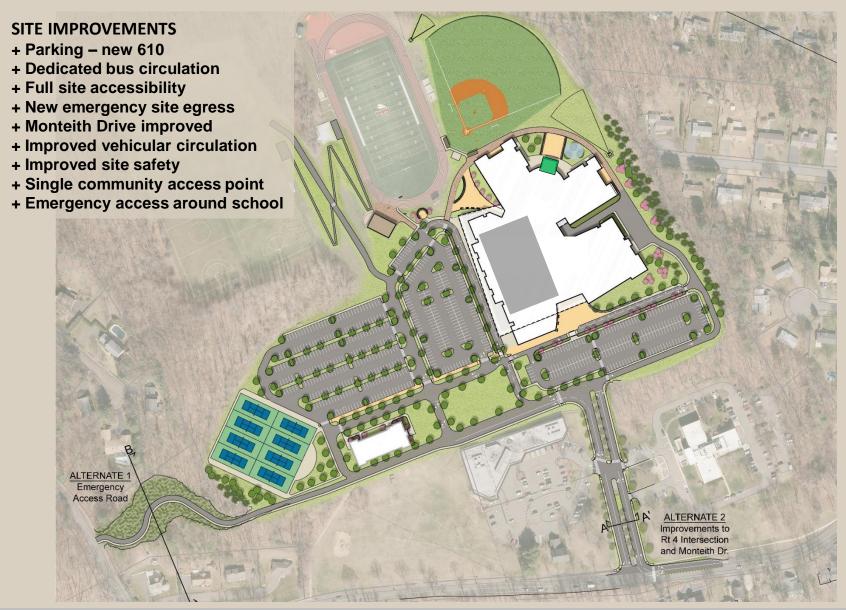
## **4** Building Systems – Low Energy HVAC Systems Approach





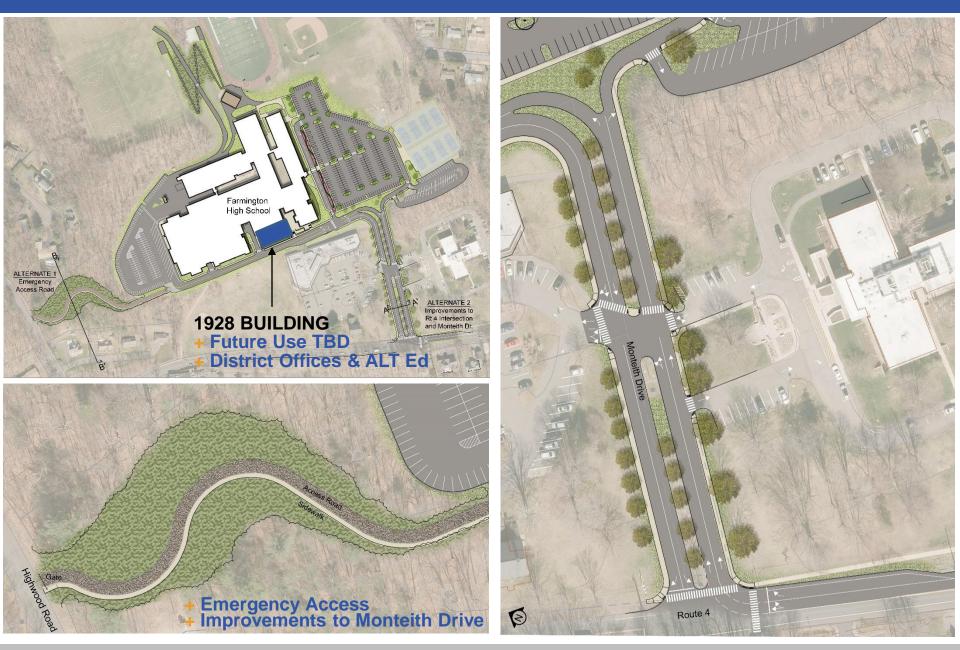
## **5** Site Improvements

#### + Athletic Fields + ADA Compliance + Site Layout Plan + Traffic Flow, Pedestrian Safety + Parking





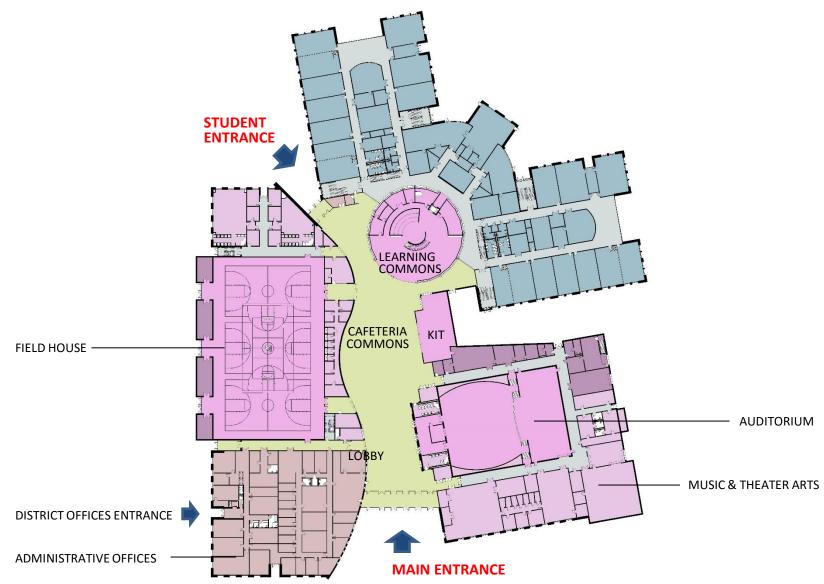
#### **Alternates**













## **7** Fit and Feel For Farmington



+ Internal Design

+ External Design

+ Overall Fit + Feel







#### Your Farmington High School Design Team

Principals	Architecture		Interior Design	Marketing
Dave	Angela	Kent	Rebecca	Cynthia
Rusty	Dan	Lan	Erika	Sharon
Tom	Mike	Julie		
	Carson	Erin		
	Victoria	Dinea		
	Alex			











## qamarch.com/fhsvideo



# Farmington High School- New Option

## **Mechanical and Electrical Systems**

## January 22, 2020





## FHS – NEW OPTION - HVAC Systems

## **Central Cooling and Heating Systems**

### **GENERATION**

- Air Condition Entire Building
- High Efficiency Water Cooled Chillers/Heat Pump Chiller Option/Condensing Boilers
- Adiabatic Condensers in lieu of Cooling Towers for water savings
- Geothermal and Photovoltaic Options

### **DISTRIBUTION**

- Air Handling Units with Dedicated Outside Air System (DOAS) and Air to Air Heat Recovery
- Minimize Ductwork to Just Serve Ventilation Requirements
- Maximize Use of Piping for Energy Transport Efficiency

## TERMINAL DEVICES

- Chilled Beams
- Radiant Ceiling Panels



## FHS – NEW OPTION - Electrical Systems

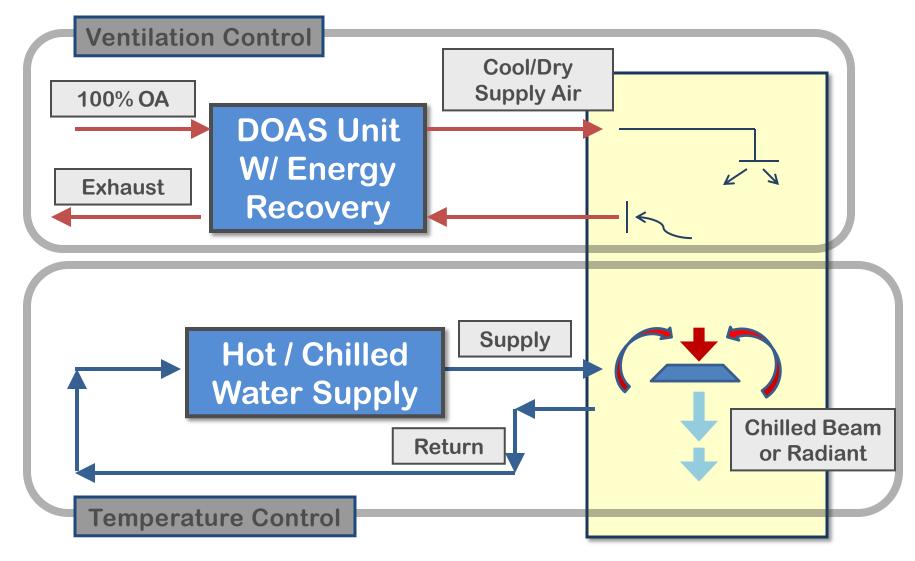
## **Proposed System – Power Distribution**

## **GENERATION**

- Main Electrical Service, Switchboards & Distribution
- Emergency Power
  - Generator: To Serve Emergency Power Loads And Standby Loads
  - Include Cooling and Heating System Components



### LOW ENERGY HVAC SYSTEM APPROACH



#### Room / Zone

