

**Kennedy Elementary School, Addition and Remodel**

Project Summary

USD 497/Sabatini Architects/Henderson Engineers/PEC

**Building Area Summary**

- Existing area (Excluding demolished areas): 54,192 SF
- New Classroom and Administration addition: 17,632 SF
- Reclaimed Courtyard Infill: 3,130
- Total area: 74,954 SF
- Remodel of Existing Area: 48,600 SF

**Overall Academic Space Summary, New and Existing**

Early Childhood Classrooms	9
Kindergarten Classrooms	3
Classrooms, Grades 1-5	13
SPED Classroom	1
SPED Flex/Learning Pockets	1
Large Flex /Learning Pockets	3
Small Flex/Learning Pockets	22
Specials: Art & Music	2 (1 each)
Title Rooms	2
Media Center	1

**Space Summary at Addition (1 each unless otherwise noted)**

Secure Entry

- Administration controls interior vestibule doors for public access

Administration

- Reception/Waiting
- Conference Room
- Three (3) Private Offices
- Open Office (staff)
- Testing Room
- School Nurse Suite with Private Office and Toilet
- Break Room
- Workroom
- Records Room
- Individual Toilet Room

Ten (10) Classrooms

- Two (2) Classrooms with hardened storm structure
- New Prefabricated Casework
- New Metal Lockers

- New Built-in Charging Counter

Large Flex/Learning Pockets

- Multiple Seating Areas
- Learning Stair
- Direct Access to Exterior

Two (2) Enclosed Small Flex/Learning Pockets

Mechanical/IT/Sprinkler Rooms

Restrooms

- Two (2) Large Multi-Stall Boys and Girls (1 each)
- Individual Staff Toilet Room

**Space Summary at Remodeled and/or Reconfigured Existing Areas**

Reclaim Existing Exterior Courtyard for New Interior Space:

- Two (2) Large Flex/Learning Pockets , Including Learning Stair
- Six (6) Small Open Flex/Learning Pockets Areas
- “Clubhouse” Flex/Play Area
- Three (3) Enclosed Flex/Learning Pockets
- Storage Room

Early Childhood:

- Remodel Existing Early Childhood Classrooms and Existing Administration Area for Nine (9) New Early Childhood Classrooms, Nine (9) Individual Toilet Rooms , Three (3) Individual Flex and Cubbie Areas, and Three (3) Shared Flex and Cubbie Areas (Shared Between Two EC Classrooms).
- New Paint, Floor, and Ceiling Tile Finishes
- New Built-in Casework at Flex/Cubbie Areas
- Remodel Existing Individual Offices for New Open Office Space
- Remodel Existing Individual Office for EC Conference Room
- Four (4) Remodeled Existing Spaces for Small Flex/Learning Pockets.

Kindergarten:

- Remodeled Existing Classrooms, Group Toilets, Reclaimed Exterior Courtyard, and Abandoned Corridor for Three (3) New Kindergarten Classrooms, Three (3) Individual Toilet Rooms, and Three (3) Individual Cubbie Areas.
- New Paint, Floor, and Ceiling Tile Finishes
- New Built-in Casework at Flex/Cubbie Areas

Specials: Art & Music Rooms:

- Remodel Existing Kindergarten Classrooms for New Art Room , Kiln Room, and New Music Room.
- New Paint, Floor, and Ceiling Tile Finishes

Existing Remaining Classrooms, Title Rooms, Media Center

- New Paint, Carpet, and Ceiling Tile Finishes

**SPED:**

- New Classroom, Flex/Learning Pocket Space, Calming Room, Open Office, and Two (2) Individual Toilets.
- New Paint, Floor, and Ceiling Tile Finishes

**Cafeteria:**

- Remove Portion of East Wall for Expansion of Cafeteria Seating Space into Former Storage Room
- New PTO Office and Storage Room

**Existing Hallway Improvements:**

- New Paint, Ceiling Tile, and Polished Concrete Floor Finish

**Existing Restroom Improvements:**

- New Toilet Stall Partitions
- New Ceiling Tile and Resinous Floor Finish

**Architectural General Improvements**

- New windows have efficient insulated Low-E glazing and thermally broken aluminum frames
- Specific Sustainability Strategies: The design team focused on maximizing the south and north exposures to capitalize on daylight into Classrooms and flex teaching areas. Clerestory windows at new classrooms with frosted glass and honeycomb diffusing panel help disperse the natural light, control solar heat gain and minimize cleaning needs. Large windows for vision at eye level use efficient insulated low-e glazing and thermal broken framing. The central Flex Space introduce daylight into the center of the building through high clerestory window which is shared with adjacent rooms through transom and sidelite windows.
- Minimal and low VOC finishes were selected to maintain indoor air quality throughout the schools.
- Durable finishes both inside and out, including brick masonry exteriors, prefinished metal exterior wall panels, and polished concrete flooring at the corridors, were selected in alignment with the Districts Design Standards to minimize maintenance.

**General Security, Classrooms**

- New door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

**Technology Improvements**

- Upgraded the building telecom system infrastructure to accommodate the new building addition and the remodeled areas within the school. This includes an additional data cabinet, data outlets, and wireless access points.
- Upgraded the building security cameras in existing locations. Provided additional security cameras in the new building addition along with other areas within the existing building footprint that was not under surveillance previously. This includes both interior and exterior security cameras.
- Each classroom within the addition received an interactive short throw projector.
- The Media Center received an interactive short throw projector.

#### **Fire Protection**

- Install new fire sprinkler system within all new and existing areas.
- Building-wide replacement of existing fire alarm system for new voice fire alarm system.

#### **Communications**

- Building-wide replacement of clock system.

#### **Mechanical: Addition and All Existing Areas Except Media Center, Kitchen, and Cafeteria:**

- Variable Refrigerant Piping (VRF) system provides best combined value of energy savings, control flexibility, maintenance and life cycle cost
- Outside air energy recovery units connected to VRF for proper sizing and delivery of ventilation air to each space for higher energy savings
- Centralized DDC control system for monitoring and HVAC controls

#### **Electrical**

- Utilize efficient LED and fluorescent interior lighting sources
- Utilize efficient LED for exterior lighting
- Programmable occupancy-based lighting controls with local manual low voltage switches in classrooms
- Programmable relay panels and local manual low voltage switches in exterior, Flex and circulation areas

#### **Plumbing**

- New high efficiency electric tank-type hot water heaters or instantaneous water heaters
- New high efficiency flush valves for new plumbing fixtures

#### **Site Improvements**

- New asphalt parking lot with 37 parking stalls, dedicated drop-off lanes, and dedicated turn lanes onto Harper Street.
- New LED pole lighting at new and existing parking lots.
- New concrete paving teaching areas adjacent to Early Childhood classrooms.
- New playground areas with fencing (surfacing and equipment by District).
- New concrete sidewalks between building and Maple Lane.
- Restore existing grass area near new building entrance with sod. Restore remaining disturbed turf areas with seed.

**Schwegler Elementary School, Additions and Remodel**

Project Summary

USD 497/Sabatini Architects/Henderson Engineers/PEC

**Building Area Summary**

- Existing area: 51,510 SF
- New courtyard addition: 2,376 SF
- New secure entry addition: 306 SF
- Total area: 54,192 SF

**Space Summary**

Secure Entry (existing east entry)

- New vestibule with doors/windows
- Administration controls interior vestibule doors for public access

Administration

- Relocated and remodel spaces including Reception/Administrative Assistant, Waiting, Principal Office, Flex/Conference Rooms (2), Workroom, Mail Center
- Relocated and remodel space for Nurse including rest area, open office, storage, uni-sex ADA restroom
- Resource Offices (open) for thirteen (13) in new courtyard addition including staff uni-sex ADA restroom

Flex Spaces (8)

- Convert existing spaces to Flex use including two (2) classrooms and part of the Library

SPED Spaces (2)

- Convert existing classrooms to SPED use

Classrooms(22)

- New Art Room in courtyard addition including kiln and storage room
- Other existing classrooms to remain

Storm Shelter

- New Art Room, Kiln Storage and Staff Restroom
- Approximate capacity for 375 (3 SF/person)

Hallway Improvements

- New polished concrete finish except for carpet walk-off areas at exterior doors

Restroom Improvements (existing)

- Remodel three (3) sets (Boy's and Girl's) for ADA improvements
- New exhaust systems

**Architectural Improvements**

- New windows in existing walls to share daylight between new Flex rooms and Hallways
- New north-facing windows in Art Room with efficient insulated Low-E glazing and thermally broken aluminum frames; window sizes match existing windows
- Low VOC finishes to maintain high quality indoor air conditions

**General Security, Classrooms**

- New door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

**Technology Improvements**

- Expand existing building telecom system to accommodate additional data outlets, wireless access points and security cameras
- Additional security cameras in remodel and existing areas that were not under surveillance previously (exterior and interior security cameras)
- New Art Room will have interactive short-throw projector

**Fire Protection**

- New voice fire alarm system with "all call" function between Administration and occupied rooms (replaces PA system)

**Communications**

- Existing phone system between administration and occupied rooms to remain
- New connections to courtyard addition rooms (Art Room, Flex/Conference, Resource Office)

**Mechanical**

- Replace nine (9) existing rooftop units due to age (connect to existing ductwork)
- Two (2) new HVAC rooftop units and ductwork (courtyard addition)
- Replace thirteen (13) through-wall HVAC units due to age (classrooms and library)

**Electrical**

- Utilize efficient LED and fluorescent lighting sources including exterior
- Programmable occupancy-based lighting controls in classrooms
- Local manual low voltage switches in circulation areas

**Plumbing**

- Three (3) new high efficiency hot water heaters: new staff restroom (new addition), north mechanical room (replacement), Kitchen mechanical room (replacement)
- Five (5) new bubblers added to selected existing classroom sinks for use as drinking fountains
- New high efficiency flush valves for new plumbing fixtures

**Site Conditions**

- New trash and recycle enclosure with gates at west parking lot
- Relocate existing playground equipment along Ousdahl Road
- South parking lot: new entry/exit drive from Ousdahl, new sidewalks and new ADA parking spaces (2)
- East secure entry: new sidewalk from bus drive
- Courtyard: new sidewalks, new gravel landscape areas, new artificial turf landscape areas, new garden plot areas (3) for students; minimize maintenance requirements

## Deerfield Elementary School, Additions and Remodel

### Project Summary

USD 497/Sabatini Architects/Henderson Engineers/PEC

### Building Area Summary

- Existing area: 50,532 SF
- Classroom Addition: 2,778 SF
- Total area: 53,310 SF

### Space Summary

#### Secure Entry (existing east entry)

- Renovated existing vestibule with new doors/windows
- Administration controls interior vestibule doors for public access

#### Renovated Administration (Limited)

- Enlarge existing window to the east and modify existing wall to make it partial height for better visibility of entry

#### Renovated Media Center

- Complete renovation of existing Media Center
  - "Genius Bar" student work station; 12 students with power and data connections
  - "Learning Stair" for medium size group presentations and work
  - Soft Seating and tables/chairs throughout the Media Center
  - Refinished existing book cases
  - Two enclosed and two open flex rooms
  - Resource Office for SPED staff with 3 workstations and Staff Storage

#### Renovated Flex Spaces (15)

- Renovate existing spaces within Classroom pods for improved Flex use
- Convert existing student storage spaces within Classroom pods to Flex use

#### Renovated Classrooms (19)

- First Grade Through 5<sup>th</sup> Grade Existing Classrooms:
  - Construct wall partitions to provide sound and visual separation between Classrooms
  - Security Locks on Classroom Doors
  - Replace interior finishes including paint and carpet tile
  - Replace Classroom sinks and cabinets in Flex Areas
  - Limited replacement of ceiling tile in Classrooms
  - Provision of student storage in Classrooms; 28 12" x 27" lockers or 18" x 18" open cubbies
  - Electrical and A/V Rough-In to support future A/V upgrades and replacement of the teaching walls.
  - Provision of modular classroom storage: (5) base cabinets and (1) wardrobe per Classroom.

- Best Classroom (1):
  - Calming Room
  - Enclosed Instruction Space
  - Modular Classroom storage
  - Unisex ADA Accessible Restroom
  - Security Locks on Classroom Doors

#### New Flex Spaces (5)

- Media Center Flex: Two enclosed flex rooms for small groups, two open flex space with soft seating and a work counter
- One Common use Instructional/Flex Classroom, 24 people, sink and counter, A/V and new teaching walls located in Media Center.
- One enclosed flex room located along the corridor in the Classroom Addition.

#### New Classrooms (2)

- Provision of student storage in Classrooms; 28 12" x 27" lockers
- A/V provisions and two teaching walls per Classroom
- Provision of modular classroom storage: (6) base cabinets and (1) wardrobe per Classroom.
- Security Locks on Classroom Doors

#### Storm Shelter

- New Classrooms and Storage Room in Addition
- Approximate capacity in Classrooms for 521 (3 SF/person)

#### Storage Room

- Relocated to Addition

#### Hallway Improvements

- New polished concrete finish with carpet walk-off areas at exterior doors

#### Existing Restroom Improvements (5)

- Remodel Boy's and Girl's restrooms north of Media Center for ADA improvements
- Remodel unisex restrooms near 1<sup>st</sup> Grade Classrooms for ADA improvements
- Provide new unisex restroom as part of Best Classroom Renovation work

#### Other Architectural Improvements

- Low VOC finishes to maintain high quality indoor air conditions

#### General Security, Classrooms

- New door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

#### Technology Improvements

- Expand existing building telecom system to accommodate additional data outlets, wireless access points, new data cabinet and security cameras.
- Expanded security cameras in remodel and existing areas that were not under surveillance previously (exterior and interior security cameras)
- Each new Classroom will have interactive short-throw projector (rough in provisioning for future projectors provided in Existing Classrooms)



- Media Center A/V: Interactive short throw projector and drop down projector screen with ceiling mounted projector.

**Fire Protection**

- Extend existing fire alarm and intercom system.

**Communications**

- Existing phone system between administration and occupied rooms to remain

**Mechanical**

- Variable refrigerant flow (VRF) system with energy recovery ventilation (outside air) will be provided for the Addition, Media Center and existing south wing of the building.
- Existing HVAC system serving existing north wing to remain in place.
- Replace thirteen (13) through-wall HVAC units due to age (classrooms and library)

**Electrical**

- Utilize efficient LED and fluorescent lighting sources including exterior
- Programmable occupancy-based lighting controls in classrooms
- Local manual low voltage switches in circulation areas

**Plumbing**

- New plumbing fixtures utilize high efficiency flush valves.
- Water heaters are replaced with a combination of high efficient electric tank type and instantaneous water heaters.

**Site Conditions**

- West drive and parking lot reconfigured to provide sufficient paved access for the Fire Department and turn around space.
- A fire hydrant will be installed at the north vehicle entrance off of Princeton.
- Sidewalks will be replaced around the building Addition.
- Fencing and landscaping will be provided around the ground mounted heat pumps, located west of the Addition.

**Lawrence College and Career Center, New Building**

Project Summary

USD 497/Momenta/Sabatini Architects/Henderson Engineers/PEC

**New Building Area Summary**

- Ground level floor area: 18,093 SF
- First level area: 15,513 SF
- Total area: 33,606 SF

**Space Summary, Ground Level**

Multi-Purpose Room

- Open to first level above (atrium)
- Monumental open stair to first level

Café

- Food preparation only

Interview Rooms (2)

Classrooms (7)

- Ideation Lab
- Prototyping Lab
- CAD/Electronics/Testing Lab (1, open)
- Fab Lab
- Digital Classroom
- Law + Public Safety Lab
- Traditional Classroom

Storm Shelter

- Digital Classroom
- Approximate capacity for 350 (3 SF/person)

Storage Rooms (5)

Elevator/Elevator Equipment

IT Room

Mechanical/Electrical Equipment

Men/Women Restrooms

**Space Summary, First Level**

Secure Entry Vestibule

- North side

Entry Vestibule

- South side

Administration

- Private office (1)
- Open office (1)

- Staff Workroom
- Conference Room

Community Offices

- Private offices (2)
- Open office (1)

Classrooms (4) and Support Spaces

- Nursing Skills Lab, Instructional Toilet and Exam Rooms (2)
- Wet Lab and Lab Prep
- Lounge/Presentation (open to Multi-Purpose atrium)
- Distance Learning/Presentation

Career Center (open to Multi-Purpose atrium)

Storage Rooms (3)

Laundry

Receiving/Storage

Elevator

IT Room

Janitor Room

Electrical Equipment

Men/Women Restrooms

**Architectural Improvements**

- Exterior windows with efficient insulated Low-E glazing and thermally broken aluminum frames
- Roller shades on exterior windows
- Maximize north-facing clerestory day lighting into upper Multi-Purpose atrium while controlling heat gain and reducing electrical use of light fixtures
- Low VOC finishes to maintain high quality indoor air conditions
- Durable finishes to minimize maintenance
- White roofing membrane to reflect solar gain

**General Security, Classrooms**

- Door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

**Technology Improvements/Communications**

- Telecom system infrastructure to accommodate building needs including data cabinets, data outlets, wireless access points and security cameras
- Security cameras to cover exterior and interior building areas
- Interactive short-throw projectors in selected classrooms
- Wall-mounted television flat screens in selected classrooms and in Multi-Purpose space on ground level

**Fire Protection**

- Automatic fire sprinkler system for complete building coverage
- Addressable fire alarm system

### **Mechanical**

- Variable Refrigerant Piping (VRF) system provides best combined value of energy savings, control flexibility, maintenance and life cycle cost
- Dedicated outside air energy recovery units connected to VRF for proper sizing and delivery of ventilation air to each space for higher energy savings
- Centralized DDC control system for monitoring and HVAC controls

### **Electrical**

- Efficient LED and fluorescent interior lighting sources
- Efficient LED for exterior lighting
- Programmable occupancy-based lighting controls with local manual low voltage switches in classrooms
- Programmable relay panels and local manual low voltage switches in exterior, commons and circulation areas

### **Plumbing**

- High efficiency gas tank-type hot water heaters
- High efficiency flush valves for plumbing fixtures

### **Site Conditions**

- North secure entry: new sidewalk from drop-off lane
- Drop-off lane along drive at building (east)
- Sidewalk to south building entrance
- Parking capacity: 108 spaces including four (4) ADA accessible spaces
- Sidewalks in parking area around the building leading to entry locations
- Sidewalk from parking area along entry drive to Haskell street intersection (north)
- Pole lighting (LED) for parking areas and drives
- Trash enclosure with fence and gate (south)
- Fenced mechanical equipment on ground adjacent to south building entrance
- Outdoor patio area on ground level with access from Multi-Purpose Room (west side covered by first level building above)

## Free State High School, Addition and Remodel

### Project Summary

USD 497/Sabatini Architects/Henderson Engineers/PEC

### Building Area Summary

- Existing area: 174,739 SF
- New Administration addition: 6,600 SF
- Total area: 181,339 SF
- Remodel area (existing rooms): 18,583 SF

### Space Summary

#### Secure Entry (existing north entry)

- Remodel and expand size of existing vestibule
- Administration controls interior vestibule doors for public access

#### Administration (new addition, north side of Commons)

- Reception/Waiting
- SRO Office
- Flex/Conference Room with operable glass walls
- Private Offices (14)
- Flex/Conference Room (future office)
- Open Office (staff)
- Open College and Career Center (students)
- Break Room
- Workroom
- Records Room
- Restrooms (2)
- IT/Electrical Room

#### New Classrooms (4) and Support Spaces (1<sup>st</sup> Floor)

- Remodel of former Administration area
- Computer Programming
- Journalism
- Photography
- Video
- Shared flex space
- Studio and Advanced Video
- Video

#### Existing Classrooms and Support Spaces (1<sup>st</sup> Floor)

- Remodel to create six (6) new classrooms out of four(4) existing
- Remodel, relocate and expand Drafting Classroom
- Remodel room adjacent to Art Classroom for new computer stations (6)
- Remodel computer/tech service room in Library for direct access to corridor

- Remodel and expand Mail/Copy/Print Room including mail center and staff office
- Remodel former Video rooms into one (1) larger classroom

Existing Chemistry/Biology Lab (2<sup>nd</sup> Floor)

- Remodel including new epoxy flooring, laboratory cabinets, work tables, molded epoxy sinks and countertops
- Teacher station and five (5) student stations including ADA station

Hallway Improvements (1<sup>st</sup> Floor, New Classrooms and Remodel Classrooms)

- New polished concrete finish

**Architectural Improvements**

- New windows have efficient insulated Low-E glazing and thermally broken aluminum frames
- Maximize north-facing clerestory day lighting into Open Office and College and Career Center while controlling heat gain and reducing electrical use of light fixtures
- Low VOC finishes to maintain high quality indoor air conditions
- Durable finishes to minimize maintenance

**General Security, Classrooms**

- New door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

**Technology Improvements**

- Upgrade existing telecom system to accommodate new building addition and remodel areas including additional data cabinets, data outlets, wireless access points and security cameras
- Install additional security cameras in new building addition, remodel areas and other areas that were not under surveillance previously (exterior and interior security cameras)
- Ceiling mounted projectors in new and remodeled classrooms
- New telecom closet with server rack for distribution in new addition

**Fire Protection**

- Extend existing fire sprinkler system to new addition and modify system in remodel areas
- Extend existing fire alarm system to new addition and modify system in remodel areas to accommodate new audio/visual devices

**Communications**

- Extend existing intercom and clock systems to new addition and modify system in existing remodel areas

**Mechanical, New Addition**

- Variable Refrigerant Piping (VRF) system provides best combined value of energy savings, control flexibility, maintenance and life cycle cost
- Outside air energy recovery units connected to VRF for proper sizing and delivery of ventilation air to each space for higher energy savings
- Centralized DDC control system for monitoring and HVAC controls

**Mechanical, Remodeled Classrooms**

- New VAV (variable air volume) air handling unit in existing penthouse to serve new VAV boxes with hot water reheat

- Extend existing centralized DDC control system for monitoring and HVAC controls

**Electrical**

- Utilize efficient LED and fluorescent interior lighting sources
- Utilize efficient LED for exterior lighting
- Programmable occupancy-based lighting controls with local manual low voltage switches in classrooms
- Programmable relay panels and local manual low voltage switches in exterior, commons and circulation areas

**Plumbing**

- New high efficiency electric tank-type hot water heaters or instantaneous water heaters
- New high efficiency flush valves for new plumbing fixtures

**Site Conditions**

- New sidewalk along east side of addition from north drop-off drive to north secure entry including built-in benches and along north side of addition, connecting to existing paving around Firebird sculpture and gymnasium entry
- New LED pole lighting along east sidewalk at addition and around Firebird sculpture at gymnasium entry
- Connect new roof drains to existing stormwater drain system
- Restore existing grass area at new addition and along north side of existing classroom wing with new sod

## Lawrence High School, Addition and Remodel

### Project Summary

USD 497/Sabatini Architects/Henderson Engineers/PEC

### Building Area Summary

- Existing area (Main Building only): 185,750 SF
- Cafeteria Addition: 1,442 SF
- Black Box Theater Addition: 3,666 SF
- Total Main Building area: 190,859 SF
- Remodel area (Cafeteria/Admin.): 800 SF

### Space Summary

#### Secure Entry (existing north entry)

- Create new enclosed vestibule with metal and aluminum framed window and door walls.
- Administration controls interior vestibule doors for public access

#### Administration

- Minor remodeling to accommodate new Secure Entry including:
  - Expanded reception desk
  - Removal of copy room
  - New storage room in Associate Principal's office

#### Cafeteria Addition

- Expansion of existing cafeteria and repurposing of existing Lion's Den space allows for approximately additional 74 seats at loose tables.
- New fixed counter seating allows for approximately 56 additional seats.

#### Black Box Theater Addition

- Acoustically designed wall and ceiling materials
- Flexible seating and stage platform configurations allow seating options between 90 and 260 seats
- Overhead pipe grid for hanging reconfigurable performance specific theatrical lighting

### Architectural Improvements

- Specific Sustainability Strategies: The design team focused on maximizing the northern exposure to capitalize on daylight into Commons/Cafeteria. Large vision windows use efficient insulated low-e glazing and thermal broken framing for the commons area.
- Minimal and low VOC finishes were selected to maintain indoor air quality throughout the schools.
- Durable finishes both inside and out, including brick masonry exteriors, prefinished metal exterior wall panels, and polished concrete flooring at the Black Box theater, were selected in alignment with the Districts Design Standards to minimize maintenance.



- Main Building Door Replacement
  - Replace existing doors at Main Building primary corridors with new oak doors for consistent appearance with other recently replaced doors.
  - New lockset hardware, including keyfob hardware at classrooms.

#### **General Security, Classrooms**

- New door locks with keypad/card reader, key fob to initiate lockdown mode, battery operation (District standard)

#### **Technology Improvements**

- Expanded the existing building telecom system to accommodate additional data outlets in the building addition along with areas within the existing building footprint.
- The black box theater received a motorized projector screen and ceiling mounted projector to provide digital content for larger audiences.

#### **Fire Protection**

- Install new fire sprinkler system at Black Box Theater addition.
- Campus-wide replacement of existing fire alarm system for new voice fire alarm system.

#### **Communications**

- Campus-wide replacement of intercom and clock system.

#### **MEP Improvements to Existing Areas**

- Existing water heaters replaced with new high efficiency gas water heater with connection to steam heat exchange.
- Replacement of Science Wing roof top mechanical units (RTU).

#### **Mechanical, Additions**

- Expand existing ductwork distribution system at Cafeteria addition.
- New RTU serving the Black Box Theater addition
- New HVAC for additions tied into centralized DDC control system for monitoring and HVAC controls

#### **Electrical**

- Utilize efficient LED and fluorescent interior lighting sources
- Utilize efficient LED for exterior lighting at canopy areas.
- Programmable occupancy-based lighting controls with local manual low voltage switches in classrooms

#### **Site Conditions**

- New covered patio area adjacent/north of Cafeteria with direct access from Cafeteria addition.
- Reconfiguration and repaving of northeast parking lot adjacent to additions.
- Screening of existing loading dock with fencing and evergreen plantings.