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OVERVIEW

Classrooms are categorized as General Classrooms for those subjects requiring a standard classroom. Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** To accommodate variations in enrollment, Classrooms not requiring the use of specialized equipment or built-in features should be as standardized as possible across the disciplines with minimal distinction, if any among English, Social Studies, Mathematics, and World Language Classrooms. Furniture, other than casework described below, to be mobile rather than built in. Classrooms should allow the maximum amount of flexibility of use as well as encourage interaction and sharing of experiences between classrooms. Where possible classroom layout and design should be integrated with increased use of adjacent outdoor spaces.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain.

- **Covered Walkways**: Connect classrooms to one another and to other buildings via covered walkways and extended overhangs. Covered walkways should be wide enough to provide space for circulation and be high enough to discourage access to the roof areas after hours and reduce noise below.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Two-Story Construction:** Two story construction will be considered on Middle and High School campuses where there is no negative effect on surrounding communities. Two story buildings should be located near other high profile, buildings on campus. Two story construction of classroom buildings should address the following issues:
  - Net classroom size and exiting are maintained
  - Upper classrooms have adequate HVAC
  - Balcony spaces can be supervised without additional staffing during lunch and recess
  - Scale is appropriate to neighbors, and not directly adjacent to homes if possible
  - Provide safe egress and evacuation from upper level spaces for students with disabilities.

- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).

CLASS SIZE (Enrollment):

1. Space for up to 28 students for 6th Grade at the Middle Schools, and 32 for the remaining general classrooms

STANDARD REQUIREMENTS

- **Classroom Size:** The California Department of Education (CDE) defines a standard classroom size at **960** SF, resulting in a square footage per student of approximately 34 SF per student for average loading of 28 students. For classrooms expected to house up to 32 students on a regular basis, this could be increased to 1,090 SF. This square footage includes any instructional space immediately adjacent to and easily visible from the classroom.

- **Sound Attenuation:** Sound transmission between classrooms should be minimized so that adjacent classrooms do not disturb each other during normal operation. Some programs may dictate enhanced acoustical attenuation.

- **Ceiling Height:** Ceiling height to remain as is in existing classrooms. Minimum ceiling height for new construction with flat ceilings is 10'-0". New classrooms with sloped ceilings may start with a 9'-0" plate height at the low end. Ceiling configuration in new construction should provide daylighting into interior spaces where possible.

- **Doors:** Provide one 3'-0" wide entry/exit door per classroom. A 2nd door is preferred where feasible, located as far away from the other as possible. Provide hollow metal steel doors with 4" wide by 25" high minimum reflective glass vision panels for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors. All exterior classroom doors shall have "lockdown" hardware allowing classrooms to be locked from the interior.

Architectural Finish
- Floors: District standard Carpet or Linoleum. Either material may be used, and at the campus' discretion.
- Walls: Bio-based material wall covering or painted gypsum board. Color selections shall be in accordance with District Standard color palette for the school.
- Bio-based material wall covering is preferred surface over gypsum board for cleaning purposes, but not required.
- Ceiling: 2 x 4 or 2 x 2 suspended grid with acoustical lay-in tile is preferred ceiling, with reflective properties appropriate for to coincide with indirect lighting where appropriate.
- Doors and Frames: Hollow metal, painted for exterior, with wood doors in hollow metal frames for interior doors.
- Sun Control: Roller shades provided at windows to darken rooms to appropriate levels for projector use. Blinds OK in instances where shades not feasible.

Casework:
- 16 linear feet minimum of wall cabinets, base and upper, should be provided. Base cabinet portion of cabinet to be 2'-10" (34") high, remaining base cabinets to have doors with one adjustable shelf per cabinet. Upper portions of cabinet to have 3 adjustable shelves per cabinet unit. Countertops should have bull-nose edges with backsplash and side splashes.
- Teacher Storage: 3 linear feet teacher wardrobe cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

Specialties
- LED Display, 80" or as room allows, or Projector – current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide magnetic markerboard units on at least two adjacent walls
- Fire extinguisher: 1 wall-mounted fire extinguisher near main entry door

Mechanical Electrical and Plumbing – Reference - Current CAL Green requirements (Part 11 of Title 24)
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be LED lay-in fixtures with prismatic lenses or LED indirect, pendent lighting, using current district standard lamp and ballast. Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control.

Technology:
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing). Also have exterior speakers spread throughout the campus for outside spaces.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Ensure cell phone and radio coverage is available within spaces. In 2-story construction, specify repeaters for coverage.

- **Ancillary Space:**
  - Storage: Storage rooms for bulky or infrequently used and seasonal items should be distributed throughout the campus for ease of access.

- **Faculty Spaces:**
  - Middle Schools:
    1. The goal is to provide a classroom for each teacher with instruction for 5 of 7 periods.
    2. For part time faculty, provide a workspace for up to 4 - 5 teachers to work during off periods

- **Adjacencies:**
  - Middle Schools:
    1. Cluster Classrooms in groups of 3 for teach teaching of Math, English, and Social Sciences.

OVERVIEW

Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** Visual & Performing Arts classrooms are generally program specific and are not planned to be used by multiple departments.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain. While daylighting is desired for most spaces, it may be superseded by some of the program needs outlined for specific teaching spaces.

- **Covered Walkways**: Connect classroom buildings to one another and to other buildings via covered walkways and / or extended overhangs. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Two-Story Construction:** Two story construction for Visual and Performing Arts spaces is not recommended.

- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).

- **Ancillary Space(s)**:
  - Storage: Storage rooms for bulky or infrequently used and / or seasonal items should be included as noted for each of the spaces below.

- **Faculty Spaces:**
  1. Departmental Office / Workroom – Not required
  2. Faculty / Staff Dining / Meeting Room – Not required

- **Adjacencies:**
  1. Cluster Visual & Performing Arts spaces as needed, noting certain Performing Arts spaces are better isolated from other campus uses due to noise transmission.
  2. Each space will have adjacent support spaces and be located near the Performance venue for ease of moving instruments and equipment while staging events and performances.

Visual Arts

1. Art Classrooms (2):

- **Classroom Size:** Space for up to 32 students, up to 1,100 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.

- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Outdoor courtyard:** Art Classrooms should be adjacent and have direct access to a single outdoor courtyard area and include an enclosed/protected kiln space.
- **Art Office and Workroom:** Provide a small office/work room adjacent to the classrooms for teacher workspace.
- **Art Storage:** Provide storage space with shelves for each classroom.

Architectural Finish
- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- Perimeter Cabinets: Flat files for large format work, 34" high base cabinet with adjustable shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Utility tables with either wood or steel tops.

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.")
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sinks.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sinks.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide two double compartment, ADA compliant sinks per classroom.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

Performing Arts:

1. Drama Classroom:

- **Classroom Size:** Drama classroom may be adjacent to Cafetorium facility. Drama classes may hold up to 30 students. Desired size is 1,680 sf, inclusive of stage (60' x 28' per Greene).
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space'. Ceiling should be open, with ceiling grid for attaching lighting and drapery.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Stage and Storage**: Portion of room shall include a 500 to 600 sf stage, 12" to 18" high, with stairs and ramp from classroom space. Also provide closed storage space along backside of stage for props and costumes.

Architectural Finish
- Floors: Linoleum classroom, with wood stage.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: Painted.
- Sun Control: Black-out shades should be provided for this space.

Casework
- Teacher Storage: 3 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Wall Storage: One wall 7'-0" high by 2'-0" tall cabinets

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard unit on one wall
- Fire extinguisher: 1 wall-mounted fire extinguisher.

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms. Sound attenuation for unit required.
- Provide an ADA compliant sink.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Basic classroom lighting, use current district standard lamp and ballast, with stage lighting to augment performing space
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control, with override.
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

2. Music Classroom – Choral:

- **Classroom Size:** Classroom may be adjacent to Cafetorium Building. Up to 60 students, with instruments. Desired size is **1,200** SF
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 15' and calculated by cubic volume per recommended standards for music rooms. Ceiling should be open, with acoustic treatment to enhance sound.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

Architectural Finish
- Floors: Carpet. Include linoleum insets at classroom entries and adjacent to sink counters/anticipated wet areas.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: painted.
- Sun Control: Shades should be provided for windows.

Casework
- Wall Cabinets: Provide 12 LF of upper and base cabinets including sink with bubbler
- Music Storage: Provide music storage cabinets appropriate to the number of musicians
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls, with music lines
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.
- Risers: Provide risers for 2 tiers of seating/standing in choral arrangement.

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide an ADA compliant sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology:
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

3. Music Classroom – Band (1) and Orchestra (1):

- **Classroom Size:** Classrooms desired to be adjacent to the Cafetorium Building for convenience. Up to 80 students, with instruments. Desired size for each space would be **1,600** sf.
- **Sound Proofing:** As a performing arts teaching space, sound proofing should be enhanced. Within room, acoustic performance should be accounted for, with acoustic treatment used to enhance audio and visual performance and teaching.
- **Ceiling Height:** Ceiling height shall be a high space, preferably over 15' and calculated by cubic volume per recommended standards for music rooms. Ceiling should be open, with acoustic treatment to enhance sound.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Practice Rooms**: Provide a practice room off each room for up to 4 musicians (300 sf each).
- **Instrument Storage**: Provide instrument storage rooms with Wenger music cabinets. (300 sf each).
- **Office:** Provide an office space for up to two faculty, including sheet music storage casework.

Architectural Finish
- Floors: Carpet. Include linoleum insets at classroom entries and adjacent to sink counters/anticipated wet areas.
- Walls: Painted gypsum board, with black curtains or acoustic panels for sound attenuation.
- Ceiling: Open, with ceiling grid for lighting and drapery.
- Doors and Frames: painted.
- Sun Control: Shades should be provided for windows.

Casework
- Wall Cabinets: Provide 12 LF of upper and base cabinets including sink.
- Music Storage: Provide sheet music casework
- Instrument Storage: Provide music storage cabinets in each storage room and practice room.
- Teacher Storage: 3 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls with music lines
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide an ADA compliant sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology:
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling.
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

OVERVIEW

Existing Classrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing classrooms may be undersized in comparison to the standard. PAUSD will assess how best to address this size differential as part of its ongoing master planning effort.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** CTE classrooms are generally program specific and are not planned to be used by multiple departments.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain. Daylighting is desired, but not at the sacrifice of program needs outlined below.

- **Covered Walkways**: Connect classrooms to one another and to other buildings via covered walkways and / or extended overhangs. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Two-Story Construction:** Two story construction for CTE spaces are not ideal, but possible for some of the spaces that are closer to standard classroom size and configuration.

- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).

- **Ancillary Space(s)**:
  - Storage: Storage rooms for bulky or infrequently used and / or seasonal items should be included as noted for each of the spaces below.

- **Faculty Spaces:**
  1. Departmental Office / Workroom – Not required
  2. Faculty / Staff Dining / Meeting Room – Not required

- **Adjacencies:**
  1. Cluster CTE spaces as needed.
  2. Each space will have adjacent support spaces.

CLASS SIZE):

- CTE spaces typically have a wide range in class sizes. See typical class size range for each space.

Media Arts:

1. <u>Broadcast Journalism Studio:</u>

- **Studio Size:** Provide an approximately 500 sf. studio space, including prop storage, with an adjacent, visually connected, control room of 100 sf. with AV controls and sound board. Studio, control room should be soundproof, with security and surveillance cameras.
    1. Office: provide an office of approximately 90 sf., adjacent and visually connected to the Broadcast Journalism Classroom.

Architectural Finish
- **Floors**: Resilient flooring preferred, such as linoleum.
- **Walls**: Painted gypsum board.
- **Ceiling**: Open or suspended ACT, as required to support adequate lighting levels.
- **Sun Control**: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.
- **Sound Proofing:** Maximum acoustical isolation desirable at Studio
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors. Soundproof doors from classroom space to studio.

Casework
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Utility tables with either wood or steel tops

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button
- Broadcast Video Equipment: See Paly MAC equipment list for cameras, sound board and other necessary AV equipment.

2. Multi-Media Arts / Video Production / Yearbook Classroom:

- **Classroom Size:** Up to 32 students per class, with approximately 1,200 sf.
  1. Office; approximately 90 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

Architectural Finish
- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- Perimeter Cabinets: 34" high base cabinets with adjustable shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Half of room will have student computer workstations for editing. Remainder of room set up for viewing

Specialties
- LED Display/Projector –Current District standard LED display (80") plus a video projector and screen in viewing area.
- Lightspeed – Sound assist teaching devices with 4 speakers, with connection to AV system for playing movies.
- Markerboards: Provide markerboard units on two walls

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

Career and Technical Education

1. Computer Laboratory/Classroom:

- **Classroom Size:** Up to 32 students per class, approximately 1,260 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

Architectural Finish

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework

- Perimeter Cabinets: 34" high base cabinets with adjustable shelves along back wall.
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

Specialties

- Computer workstations: Provide 32 computer workstation locations in room, including in-floor power and data capabilities. FF&E solutions preferred.
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls

Mechanical Electrical and Plumbing

- In-floor power and data for up to 32 workstation locations.
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Computer workstations: Provide 32 computer workstation locations in room, including in-floor power and data capabilities
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

2. Industrial Technology:

- **Classroom Size:** Up to 32 students per class, approximately 1,600 sf
- **Sound Proofing:** Required acoustical isolation desirable from other classrooms for noisy activities
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Storage:** Provide lockable storage room adjacent to lab, preferably with doors that can remain open during class time for access to printers and other equipment.

Architectural Finish

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework

- Computer workstations: Provide 32 computer workstation locations in room, including in-floor power and data capabilities. FF&E solutions preferred.
- Perimeter Cabinets: 34" high base cabinets with adjustable shelves
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Provide student workstations with computers in half of the lab space.

Specialties

- Computer workstations: Provide 32 computer workstation locations in room, including in-floor power and data capabilities. FF&E solutions preferred.
- Workshop area, including wood working equipment and dust collection system.
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)
- Dust Collection system in woodworking area.

Technology

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

3. Family/Consumer Skills: (Home Economics – Foods – Sewing)

- **Classroom Size:** Up to 32 students per class, approximately 1,400 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.
- **Food Prep and Storage:** Provide an adjacent room for teacher prep space and food storage. Provide a refrigerator and countertop space with a sink.

Architectural Finish
- Floors: Resilient flooring as approved by Health Department, such as linoleum.
- Walls: Painted gypsum board and FRP Paneling as appropriate. Some stainless-steel cladding in cooking areas.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- Perimeter Cabinets: 34" high base cabinets with adjustable shelves
- Teacher demonstration station: Small base cabinet and countertop workstation with sink and angled mirror for teacher demonstration.
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.
- Student Workstations: Student workstations, up to 8 per classroom for up to 4 students per station. Each station to have base cabinets and countertops in kitchenette arrangement, with equipment noted below

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls
- Each workstation to have a utility sink, dishwasher, range/oven, and hood.
- Washer/Dryer for teacher use

Technology
- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CALGreen (Part 11 of Title 24)

OVERVIEW:

Existing science facilities need to be upgraded and expanded or replaced to provide the program requirements to the extent possible. The science department covers a wide range of practical, experimental, and theoretical level science instruction. Science classroom facilities vary in the level of sophistication from the general science classrooms to the chemistry laboratory environment.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** Provide a variety of instruction and independent learning spaces. Should be adaptable as program changes and be able to accommodate full classroom instruction and lab activities.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain. Daylighting is desired but should be controlled where programs require it.

- **Covered Walkways**: Connect as practical to existing or new covered walkway systems and/or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Two Story Construction:** Two story construction of science classroom buildings may be considered but are not preferable due to the air system/exhaust requirements.

- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).

- **Layout**: The science department is arranged in three areas: (1) the science classroom spaces, (2) the laboratory preparation and storage areas, and (3) the teachers' workstations and staff area.

- **Faculty Spaces:** Provide a central, open work area for teaches. Each teacher to have an open workstation within the larger open area that foster interaction and collaboration.

- **Adjacencies:**
  1. Desirable in a central location near other academic classrooms that is easily accessible by students. An outdoor area is desirable for gardening and experiments.

CLASS SIZE: (enrollment)

- As a core curriculum class, the classes are typically fully enrolled with 24 per class.

1. General Science Classroom

- **Size:** Approximately **1,300** sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction is 10 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

Architectural Finish

- Floors; Resilient Flooring, Linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework

- Perimeter base cabinets and sink units (6)
- Upper cabinets and tall storage cabinets
- Instructional or demonstration unit with sink at the front of the classroom

Specialties

- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on at least two walls

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters. Provide purge room exhaust fans where required.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

2. Science Laboratory Classrooms

- **Size:** Approximately **1,300** sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 10'-0" for new construction
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

Architectural Finish
- Floors; Resilient Flooring, Linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- Perimeter base cabinets and sink units (6)
- Upper cabinets and tall storage cabinets
- Instructional or demonstration front unit with sink
- Student work station—some have plumbing and sinks

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on at least two walls

Technology
- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters. Provide purge room exhaust fans where required.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

3. Laboratory Preparation and Storage Area

- **Size:** See below
  - **Prep Area**: varies according to the number of science classrooms.
    - Approximately 240 sf. per classroom.
  - **Central Storage Area**: varies according to the number of science classrooms
    - Approximately 45 sf. per classroom
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height is 9 ft., higher ceiling height desirable
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Passage doors to each science classroom is required. Provide wood doors at interior and hollow metal steel doors at exterior with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have heavy duty, high use finish hardware.

Architectural Finish
- Floors: Resilient Flooring, Linoleum
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use. If the prep space is an interior space with no windows, overhead natural lighting via skylight or solar tubes is desirable

Casework
- Base cabinets and upper cabinets
- Bookshelves
- Tall storage cabinets

Specialties
- Markerboards
- Copy machine/s
- Specialized electrical requirements for equipment
- Full-size refrigerator and freezer
- Dishwashers (2)
- Chemical storage cabinet
- Fume hood
- Emergency shower
- Emergency eye wash
- Large sinks
- Bottle drying rack
- Metal utility shelfing

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters. Provide purge room exhaust fans where required.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Data outlet for printer connections

OVERVIEW

Existing library facilities need to be upgraded and expanded or replaced to provide the program requirements to the extent possible. The library is the "heart" of the campus and provides an educational space beyond the collection of books. It's the resource center for project-based learning, individual and group instructional activities, research center, and respite from the daily school activities.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** Provides a variety of instruction and independent learning spaces. Should be adaptable as program changes and be able to accommodate full classroom activities.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain. Daylighting is desired but should be controlled to protect the book collection.

- **Covered Walkways**: Connect via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Two Story Construction:** Two story construction for a Library may be considered if the following issues are addressed:
  - Upper floor spaces have adequate HVAC
  - Balcony spaces can be supervised without additional staffing during lunch and recess
  - Scale is appropriate to neighbors, and not directly adjacent to homes if possible
  - Provide safe egress and evacuation from upper level spaces for students with disabilities.

- **Code Red Requirements:** Provide an area within the room or storage out of sight from all windows in the Library classroom to accommodate the class during a 'code red' event on campus. Window coverings should be provided on any vision windows. Exterior doors shall allow locking from the inside ('Columbine' locks).

- **Lobby:** Consider a lobby, interior or exterior, area that wood provide a gathering space prior to entry. It would also serve as a vestibule to prevent leaves and debris from blowing directly into the library.

- **Ancillary Space(s)**:
  - Storage:
    1. Storage rooms for bulky or infrequently used and / or seasonal items.
    2. Book storage for summer use and rotating books.

- **Faculty Spaces:** Not required.

- **Adjacencies:**
  1. Desirable in a central location that is easily accessible by students.

CLASS SIZE:

- Able to accommodate two classes that have independent instructional activities.

1. Library – Reading Room

- **Size:** Total Library – All Spaces - Approximately **4,750** sf.
  1. Reading Room: to accommodate 30 students in two, separate instructional activities.
  2. Casual Reading: to accommodate 20 students
  3. Stacks: bookshelves, both perimeter at wall and freestanding to accommodate approximately 15,000 volumes. The number of volumes has been reduced due to the increase in digital material.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction in the main reading room 16 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

Architectural Finish
- Floors: Carpet for sound control with walk-off mats at entry.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- As required for each space note above.
  1. Library bookshelves and display cases

Specialties
- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards
- Announcement board
- Enhanced signage

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

2. Library – Project Rooms

- **Size:**
  1. Small Project Room: approximately 100 sf.
  2. Large Project Room: approximately 175 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9'-0".
- **Doors:** Provide wood doors with 25" wide by 25" high minimum vision panels.

Architectural Finish
- Floors: Carpet for sound control
- Walls: Painted gypsum board with markerboards and trackable wall panel
- Ceiling: Suspended acoustical ceiling system.

Casework
- Not required.

Specialties
- Maximize markerboard surface within room

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Call-Back button

3. Library – Student Production Center

- **Size:** As required to accommodate the activities
  1. This area is where students prepare project material, access copy machine, assemble reports, and borrow paper cutters and markers.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height is 9 ft.
- **Doors:** Not required. This area is open to the main reading room and not a separated room.

Architectural Finish
- Floors: Carpet for sound control with walk-off mats at entry.
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework
Large worktables for layout. Cabinets for storage of materials

Specialties
- Markerboards
- Copy machine/s
- Enhanced signage

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

4. Library –Work Room and Office

- **Size:** Approximately **280** sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Wood doors with glass panels of 25" x 25"

Architectural Finish
- Floors: resilient floor material
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

Casework
- Base cabinets with sink at the work room
- Tall cabinets for storage

Flat files for large materials

Specialties
- Markerboards in work room

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers
- Call-Back button

5. Library – Circulation Desk

- **Size:**
  1. As required to accommodate two stations—one for check out of books and one work station.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Not applicable

Architectural Finish

- Floors: Carpet for sound control or resilient matting
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework

- Circulation desk to accommodate two stations—one for check out of books and one workstation.
- Back counter base cabinets for storage and layout
- Book slot incorporated in to circulation desk with book cart behind
- Bookshelves

Specialties

- Markerboards in project rooms
- Announcement board
- Enhanced signage

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers
- Call-Back button

OVERVIEW

Existing Cafetorium facilities need to be upgraded and expanded to provide the program requirements to the extent possible. The food service delivery component needs upgrades to reduce the amount of time necessary to service students during a limited lunchtime duration.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** Cafetorium facilities are flexible spaces that must accommodate many different uses. They serve as the gathering space for assemblies, performances, auxiliary PE space, the food serving area, and eating area during inclement weather.

- **Daylighting**: Incorporating daylighting into the indoor learning space has been proven to improve student health and performance. Where possible, classrooms and learning environments should take full advantage of natural daylighting, using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain. Daylighting is desired but requires control for assemblies and performances that require reduced and/or no light.

- **Covered Walkways**: Connect Cafetorium facility to other buildings via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below. Areas should be shaded where students will be in line waiting to be served.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency

- **Lobby:** Consider a lobby, interior or exterior, area that wood provide a gathering space prior to entry. It would also serve as a vestibule to prevent leaves and debris from blowing directly into the Cafetorium facility.

- **Ancillary Space(s)**:
  - Storage: Storage rooms for bulky or infrequently used and / or seasonal items should be included as noted for each of the spaces below.

- **Faculty Spaces:**
  1. Faculty / Staff Dining / Meeting Room

- **Adjacencies:**
  1. Desirable in a central location that is easily accessible by students and the public.
  2. Highly desirable to have near the performing arts classrooms for easy access to the stage of the Multi-purpose facility.
  3. Close to shade structure and covered exterior spaces for lunch.
  4. Near or accessible for service and deliveries.

CLASS SIZE:

- Occupancy is based on the size of the facility and/or a basketball court in the case of being used as an auxiliary PE space. Desirable to accommodate half the student population for assemblies if possible. 4,400 sf with an 1,800-sf stage for Greene MS.

1. Cafetorium

- **Size:** 4,500 sf with an 1,800-sf stage for Greene MS to seat 600 people in an assembly configuration.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 21'-0"
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

Architectural Finish

- Floors: Resilient flooring preferred, such as linoleum. Stained and polished concrete is also an option where appropriate
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.

Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework

- Not required in Cafetorium proper.

Specialties

- LED Display/Projector with large projection screen on stage. Consider rear projection type from stage.
- Sound system with distributed speakers
- In-wall, folding tables that are demountable from pocket for flexibility. In-wall tables shall have easy operation.
- Draperies, including valance and legs for stage opening.
- Folding basketball goals if used as an auxiliary PE space.

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast. If used for auxiliary PE space, all light fixtures shall be protected by a grille.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

2. <u>Stage:</u>

- **Size:** According to desired capacity for performances. Approximately 1,800 sf.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 16'-0".
- **Doors:** Provide (2) 3'-0" wide. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. One exterior double door for service.

Architectural Finish
- Floors: Resilient sheet goods, Athletic resilient floor surface or wood depending upon programs.
- Walls: painted gypsum board with acoustical panels.
- Ceiling: Suspended acoustical ceiling system or exposed to structure above if new facility. Consider painting exposed ceiling structure black including ductwork

Casework
Not required.

Specialties
- Ramp or other means to make stage accessible. No HC lifts.
- Pipe grid for production lighting separate from general room lighting
- Acoustical treatment
- Consider folding partition system to divide stage from Multi-purpose area for flexibility

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology
- Telephone: 1 VOIP
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary in classrooms, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

3. <u>Kitchen and Food Service:</u>

<u>(Does not include JLS, where Central Kitchen has expanded requirements)</u>

- **Size:** According to desired serving capacity
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 9'-0".
- **Doors:** Provide (2) 3'-0" wide. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Exterior door for service shall be 42" wide or a double door.

Architectural Finish
- Floors: Epoxy flooring with coved based desired. However, other flooring finishes acceptable to the County Health Department is acceptable
- Walls: FRP panels and painted gypsum board depending upon location
- Ceiling: Suspended ACT with washable mylar finish or other tile acceptable for food service areas

Casework
- Not required. All counters and worktops shall be stainless steel and conform to commercial food requirements.

Specialties
- Food service equipment as required to meet PAUSD food delivery program

- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)
- Exhaust Hood with fire suppression system. Provide future heating & cooking provisions.

Technology

- Telephone: 1 VOIP
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

4. <u>Servery:</u>

- **Size:** According to serving capacity desired. Desirable to have two, parallel speed-lines with restock aisle depending upon capacity.
- **Sound Proofing:** Not required but some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction with flat ceilings is 10'-0", though higher, open ceilings are preferred.
- **Doors:** Provide (2) 3'-0" wide entry / exit door per classroom. Provide steel doors with 4" wide by 25" high minimum vision panels with reflective glass for all exterior doors. Wood doors with vision panels should be provided for interior classroom doors.

Architectural Finish

- Floors: Resilient flooring preferred, such as linoleum.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended ACT, as required to support adequate lighting levels.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework

Not required. Severy is all food service equipment.

Specialties

- Point-of-Sale connection
- Overhead menu board or changeable reader board

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning
- Enhanced ventilation and exhaust
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone in each classroom

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button
- See above for Point-of Sale data connection.

OVERVIEW:

The Administration is the interface between the school and the outside community. It serves as the primary security point for all visitors entering the campus and provides the information necessary to negotiate the administrative functions from attendance and records to discipline and guidance. The administration is typically located at the front of the campus in a building/s easily identified as the main campus entrance.

GENERAL DESIGN CONCEPTS:

- **Flexibility:** The space shall be flexible and adaptable to the needs and demands of the students.
- **Daylighting**: Incorporating daylighting into the office spaces using windows, clerestories, light shelves, and skylights to minimize the need for artificial lighting. Window and skylight placement should prevent glare and avoid excessive heat gain.
- **Covered Walkways**: Connect via covered walkways and / or extended overhangs where possible. Covered walkways should be wide enough to provide space for both activity and circulation, high enough to discourage access to the roof areas after hours and reduce noise below.
- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
  - Integrated design
  - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
  - Energy and water conservation and efficiency
- **Lobby:** A small reception and waiting area is necessary.
- **Ancillary Space(s)**: see program spaces below.
- **Faculty Spaces:** Provide a general workroom and break area for the administrative staff
- **Adjacencies:**
  1. Located at the front of the site and easily identified as the main school entrance.

Administration

1. <u>Administration - Reception and Waiting</u>

- **Size:** Approximately 300 sf.
  1. Seating area for visitors waiting for assistance
  2. Reception desk to greet and direct visitors and students to appropriate services
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction in the main reading room 10 ft. Other areas minimum height of 9 ft.
- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

Architectural Finish

- Floors: Carpet for sound control with walk-off mats at entry.
- Walls: Painted gypsum board.
- Ceiling: Open or suspended acoustical ceiling tile
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use.

Casework
- Reception desk with two workstations
- Back counter for storage
- Shelves and display cabinets
- Mail slot casework for staff & faculty

Specialties
- LED Display for campus information
- Announcement and information center, brochures
- Parent center for filling out forms
- Enhanced signage

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button

2. Attendance

- **Size:**
  1. Workstation and counter area, 250 sf
  2. Attendance Office of approximately 100 sf.
  3. Records/File storage area approximately 80 sf.
  4. Conference room for parent conferences 120 sf
- **Sound Proofing:** Enhanced acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height 9’-0”.
- **Doors:** Provide wood doors with 25” wide by 25” high minimum vision panels.

Architectural Finish
- Floors: Carpet for sound control
- Walls: Painted gypsum board with markerboards
- Ceiling: Suspended acoustical ceiling system.

Casework
- Cabinets

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Call-Back button

3. Open Office Work Area

- **Size:** Open area for three workstations, approximately 400 sf.
  1. Storage and file cabinets
  2. Visibility to reception area is desirable
- **Sound Proofing:** Some acoustical isolation desirable.
- **Ceiling Height:** Minimum ceiling height is 10 ft.
- **Doors:** Provide hollow metal steel door with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for exterior door and solid wood door for interior.

Architectural Finish

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework

- Cabinets for storage of materials
- Use of modular furnishings in lieu of built-in workstations

Specialties

- Markerboards

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

4. Offices

- **Size:** multiple sizes
  Principal, approximately 180 sf.
  Assistant Principals, two at approximately 120 sf. each
  Registrar, Budget & Other offices, three (3) at 100 sf each
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Doors:** Wood doors with glass panels of 25" x 25"
- **Window:** Visibility to see out for supervision purposes. Provide window blinds for view control.

Architectural Finish
- Floors: carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceilings.

Specialties
- Magnetic markerboards
- Tack board or tackable wall surface

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone each space
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access.
- Call-Back button

5. Conference Rooms

- **Size:**
  1. Large, approximately 200 sf
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

Architectural Finish
- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework
- Base cabinet in large conference room

Specialties
- Tack panel wall surface

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)

- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button
- LED monitor

6. Staff Workroom

- **Size:** approximately 400 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

Architectural Finish

- Floors: Resilient material such as linoleum
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework

- Base cabinets with upper shelves
- Large layout table
- Tall storage cabinets

Specialties

- Announcement board
- Power and data
- Tack panel wall surface
- Copy machines

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- LED monitor
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button

Counseling

1. Offices

- **Size:**
  Counseling; Three (3) offices of approximately 100 sf. each, One (1) large approximately 150 sf.
  Human Services, Student Affairs, Psychology & Other offices: Four (4) offices of approximately 100 sf each.
- Offices arranged around a central work area and near reception and conference rooms
  Proximity to small kitchenette area
  Second exit is desirable, so students can exit without going through reception area
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

Architectural Finish

- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Casework

- Refer to reception and waiting for Wellness

Specialties

- Announcement board
- Enhanced signage
- Power and data coordination at circulation desk is critical
- Tackpanel above back counter base cabinets

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button

2. Record and File Storage Room

- **Size:**
  1. Secure storage room for records and files, approximately 90 sf.
  2. Records Office of approximately 100 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required.
- **Doors:** Wood door without vision panel to office, no vision to file room

Architectural Finish
- Floors: Linoleum
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Call-Back button

3. <u>Conference Rooms</u>

- **Size:**
  1. Large, approximately 200 sf
  2. Small, approximately 130 sf
- **Sound Proofing:** Acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height of 9'-0"
- **Lighting:** Specialty lighting not required. Provide general illumination.
- **Doors:** Wood doors with glass panels of 25" x 25"

Architectural Finish
- Floors: Carpet
- Walls: Painted gypsum board.
- Ceiling: Suspended acoustical ceiling system

CASEWORK:
- Base cabinet in large conference room

SPECIALTIES:
- Tack panel wall surface

Mechanical Electrical and Plumbing
- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Provide digital thermostatic control with a range of 7 – 10 degrees and override capability
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast light fixtures.
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24

Technology

- Telephone: 1 VOIP telephone
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Call-Back button
- LED monitor

OVERVIEW:

The Physical Education (PE) facilities shall include several separate but related functions and facilities:

- Main Gymnasium
- Wrestling
- Fitness Center / Weight Room
- Aerobics / Dance Studio
- 25 Yard swimming pool
- PE Classroom
- Locker Room Entry Vestibule
- Boys, Girls and Auxiliary PE Locker / Dressing Areas
- Shower Areas
- Student Toilet Rooms
- PE Offices
- Equipment Storage
- PE Instructors' Offices
- Faculty Restroom / Shower
- PE Department Common Workroom
- Custodial Closets

Existing PE facilities deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Some existing PE facilities may be undersized in comparison to the standard or missing some desired components. PAUSD will assess how best to address these differentials as part of its ongoing master planning effort.

The District provides both PE and Athletics programs to its students. Community groups also use facilities and fields.

Goals of the PE program are as follows:

- To provide the appropriate levels of physical education to comply with graduation requirements
- To introduce students to enjoyable lifetime activities
- To enhance sportsmanship
- To improve skill level in competitive sports
- To develop appropriate social behaviors

A typical PE class averages about 40 students with a peak of 45. On average, 5 PE classes are in session at any one time. The shortage of facilities means that there are not enough courts to allow all students to play at one time so some students must sit out part of their PE period.

Goals of the Athletics program are as follows:

- To enhance sportsmanship
- To improve skill level in competitive sports
- To give students the opportunity to succeed as part of a team

STANDARD REQUIREMENTS:

Function/Requirements/Adjacencies

1. **Main Gym** (size varies at each school): Typically, 42 to 45 P.E. students use the space at one time. Used for dances and all school meetings as well as athletics. The courts should be laid out to allow for one regulation size basketball court, three regulation volleyball courts, two practice basketball courts, and six to eight badminton courts. Provide the following:
    a. Vented hardwood floor
    b. Lighting and sound control booth (7.5' x 10') with a central speaker system
    c. Two microphone adapters at both end line walls and in the middle of the floor for basketball.

d. Drinking fountains and cuspidors located outside of the gym floor area, preferably in the vestibules
e. Electrical power, four areas per sideline, and two areas per end line
f. Acoustical treatment to reduce noise, reverberation, and echo on ceiling and above wall mats
g. Wall mats to protect student as they run into walls
h. Storage for portable chairs (10' x 10')
i. Three storage rooms for equipment off the gym (10' x 15' each). Each of these spaces should have high ceilings to accommodate volleyball standards and trampolines. Needs double door access.
j. Clock
k. Two fiberglass-enclosed bulletin boards.
l. Six baskets with rectangular backboards
m. Scoreboard
n. Proper window orientation or window treatment to provide natural daylight and control glare
o. Flexible lighting system to eliminate bright spots for the player and illuminate the ceiling
p. New bleachers to accommodate 250 students (electronic if affordable) if required

2. **Aerobics/Dance Studio** (50' x 100' - 42 – 45 students): Aerobics and dance activities as well as cheerleading and drill team (flags). Resilient wood floor, high ceiling, and walls with a ballet bar and floor- to- ceiling mirrors along one wall are required. Provide a lockable, built-in cabinet for the stereo systems and storage for records and tapes. Provide access to drinking fountain, two fiberglass-enclosed bulletin boards, one wall with tackable wall surface, and one wall with 16' of whiteboard. Provide electrical outlets on each wall.

3. **Wrestling** (42' x 84' minimum for two mats (60' x 80' is desired) – 42 – 45 students/class; 40 – 60 for team): Wrestling is taught year-round. Moving mats is a real problem for Wrestling so Wrestling should be adjacent to the Gym where competitions are held. Size room to accommodate wrestling mats (32' x 32' with 5-foot mat lane). If large enough, this space could also be used for Cheerleading, Aerobics and Dance if a separate Mat Storage Room (sized to accommodate required mats rolled-up) is provided.

4. **PE Classroom** (30' x 32' – 32 students): Similar to RDS-1 Standard Classroom. Adjacency to athletic facilities is desired for use as a space for meetings, showing films, discussing nutrition, and other functions.

5. **Locker Rooms** (Separate Male and Female facilities in each category below). Showers and lockers should be accessible from indoor recreational areas and playing fields. Floors of wet areas should be surfaced with non-slip ceramic tile or monolithic (epoxy) surfacing materials, and should be sloped and equipped with floor drains along the perimeter of the room

   While separate binary locker rooms are required, layout and design of locker rooms should reflect the District's desire to accommodate all-gender student's needs. While supervision is important, areas should be provided and designed to allow those with varying gender sensitivities to use the facility in an equitable manner with some provisions for discretion, such as curtains or partitions. Circulation from some lockers to shower and restroom facilities should also allow more privacy if desired.

   In addition, an auxiliary locker room space ~~can~~ should be provided with separate space for lockers, changing area, shower stalls and restrooms that provide adequate privacy for students that do not feel comfortable using binary locker room facilities. Space should be provided for up to six students to use during a class period. Entrances and exits should be discrete wherever possible and out of view from other locker areas.

   a. **Entry Vestibule** (2 @ 7.5' x 10' ea. for boys and girls)**:** Provide privacy vestibule entries to the locker room area. Include 3'x5' whiteboard, fiberglass-surfaced bulletin boards, and additional tackable surface.

   b. **Locker / Dressing Area** (50' x 50' ea.) For Boys & Girls, 2 types of lockers are desired:

      - Small vented 12"x12" box lockers for gym gear are too small. Larger 12"x36" lockers for storing clothes, backpacks during gym as well as P.E. gear. Lockers should be lower than they are now to improve visibility for staff. Need about 500 for girls and 500 for boys.
      - Largest lockers ½ size 12"x42" for athletic team members. Provide 200 Team lockers organized by team (see Team Rooms below).
      - Disabled access lockers in numbers and distribution as required by the Americans with Disabilities Act (ADA).

- Smaller area for all gender students with direct but modest access to shower and restroom facilities.

Provide drinking fountains.

c. **Athletics/Uniform Storage Cages** Provide secure access to the Locker Rooms with a counter and Dutch-door for issuing uniforms to students. Provide fifteen each (30 total) large, locking storage cabinets with adjustable shelving to store equipment for each sport.

d. **Shower Area** (15' x 35' ea.): A maximum of 16 showerheads is required in each Shower Area. Provide an ADA shower cubicle. Students provide their own towels, so no towel storage, distribution, or delivery area is needed. All temperature & timing should be centrally controlled. Shower locations should provide some modesty separation for all gender students.

e. **Student Toilet Rooms:** Provide restrooms off each locker room with a minimum of four water closets (2 WCs, 2 urinals for boys) and four sinks. Include mirrors over the sinks and electric hand dryers. Provide electric hair dryers (for girls). Provide a shelf in the Girls Restroom.

f. **PE Instructors' Offices** (12.5 ' x 15' each): Investigate a raised floor concept to facilitate supervision of locker and shower areas (must meet ADA requirements for accessibility). Provide four instructor stations and two coaches desks (women need four stations in total) including a telephone, space for computer, printer, upper adjustable shelving, 4' x 4' light board, three 6' bookshelves, four 2-drawer file cabinets, tackable wall surface and a clock.

g. **Faculty Restroom/Shower** (10' x 25' each): Provide restroom, shower and dressing facilities for instructors and coaches. Female staff needs two toilets, two sinks and twenty-four lockers. Male staff needs one toilet, one urinal, two sinks and twenty-four lockers (verify at start of design).

h. **Custodian** (5' x 7' each): Provide floor sinks with hot and cold water

i. **Unisex Equipment Storage** (12.5' x 20' ea.): Provide separate storage (caged) for P.E. and Athletics. Provide both interior and exterior access (for male coaches of female teams, etc.). Equipment should be stored close to where PE teachers teach. Equipment will be issued to students from a counter. Storage includes 12 lockable cabinets, accesses by double doors (48"wx36"hx18"d). Provide hooks for hanging bags and a countertop for electric ball pumps. Also provide Equipment Storage in sheds or containers near fields.

j. **PE Department Common Workroom** (12.5' x 15'): For both male and female staff and coaches. Similar to RDS-11 Departmental Office/Workroom except with indoor/outdoor carpeting. Not a high priority if have computers in Locker Room Instructors Offices.

SPECIAL REQUIREMENTS:

1. Isolate Physical Education facilities from classrooms where noise would be distracting
2. Safety of users is a vital concern. Non-slip floors and non-abrasive wall surfaces should be provided. No sharp edges and corners should be exposed.
3. Attention should be paid to the durability of materials used on surfaces and furnishings.
4. Proper acoustics are vital to reduce noise, reverberation, and echo.
5. Ventilation needs should be properly addressed.
6. Lighting will require special attention to ensure installation of suitable fixtures, they should be recessed or shielded and adequate in terms of quality, durability, and area of illumination.
7. Windows in gymnasiums should be elevated and protected.
8. Communication systems should be considered where needed.
9. Public restroom facilities and equipment storage should be provided near fields.
10. Community will use facilities for recreation
11. Consider provisions for visiting teams to separate visiting team dressing areas from home team

1. <u>PE Classroom</u>

- **Size:** Approximately 1200 sf.
- **Sound Proofing:** Some acoustical isolation desirable
- **Ceiling Height:** Minimum ceiling height for new construction 10 ft.

- **Doors:** Provide adequate number required by exiting calculation but no less than two sets of double doors. Half of the doors shall discharge directly to the exterior. Provide hollow metal steel doors with 4" wide by 25" high minimum vision panels with reflective glass or mirror finish for all exterior doors. Doors shall have duty, high use finish hardware.

Architectural Finish

- Floors: Carpet. Include resilient floor insets at classroom entries and adjacent to sink counters/anticipated wet areas.
- Walls: Painted gypsum board. Color selections shall be in accordance with District Standard color palette for the school.
- Ceiling: Lay-in or glue-up acoustical tile is preferred. Should have reflective properties appropriate for indirect lighting.
- Sun Control: Blinds or roller shades provided at windows, with ability to darken rooms to appropriate levels for projector use

Casework

- 16 linear feet minimum of base and wall cabinets should be provided. Base cabinet portion of cabinet to be 2'-6" high and include an ADA compliant sink. Base cabinet portion to have one set of drawers capable of storing 24" by 36" paper. Remaining base cabinets to have doors with 1 adjustable shelf per cabinet segment behind them. Upper portions of cabinet to have 3 adjustable shelves per cabinet segment. Countertops should have bull-nose edges, and
- Teacher Storage: 4 linear feet of teacher wardrobe storage cabinet 7'-0" high by 2'-0" deep with lockable doors. Half of cabinet width to have 5 adjustable shelves and half to have a closet pole with 1 fixed shelf above it.

Specialties

- LED Display, 80" or as room allows, or Projector – Current district standard. Both could be used in certain circumstances.
- Lightspeed – Sound assist teaching devices with 4 speakers
- Markerboards: Provide markerboard units on two walls
- Paper Towel Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Soap Dispenser: 1 wall-mounted dispenser adjacent to sink.
- Fire extinguisher: 1 wall-mounted fire extinguisher.

Mechanical Electrical and Plumbing

- Heating, Cooling and Ventilation unit noise ratings to fall within ANSI S12.60-2002 parameters.
- Air Conditioning will be provided in classrooms.
- Provide digital thermostatic control for individual classrooms with a range of 7 – 10 degrees and override capability.
- Provide an ADA compliant sink with accessible drinking fountain incorporated into sink.
- Lighting should be indirect, LED pendent lighting, using current district standard lamp and ballast
- Lighting shall be switched per Title 24, utilizing occupancy sensors for on/off control
- Per CAL Green (Part 11 of Title 24)

Technology

- Telephone: 1 VOIP telephone in each classroom
- Clock and Speaker: Provide 1 digital Valcom clock and speaker unit. (Or analog if matching existing)
- Wireless: Provide wireless connectivity provisions for teacher and student access. Provide 1 WAP location in ceiling per classroom
- Ethernet connection: Provide wired connection for equipment that is stationary, such as items like phones, printers, interactive boards, LED display interfaces, copiers.
- Call-Back button

OVERVIEW:

Existing Restrooms deemed to be at significant variance with the completed standards will be modernized to meet the standards to the extent possible. Student and staff restrooms will be added as needed to comply with Uniform Plumbing Code (UPC) requirements with accessibility following the best practices of universal design principles.

GENERAL DESIGN CONCEPTS:

- **All Gender Restrooms:** The District is increasingly moving toward incorporating all gender restrooms on all their campuses. Design principles include the following:
    - No urinals, all water closets
    - Full height toilet partitions where possible
    - Sinks/Lavatories should be grouped and preferably in location easily supervised. They can be located outside the room if desired.
    - Providing restrooms in groups of two, not exceeding three stalls each, will provide future flexibility if the District ever wants to go back to more traditional restroom layout.

- **Daylighting**: Where possible, restrooms should be designed to take full advantage of natural daylighting, using windows, clerestories, or skylights as appropriate. Window placement should be carefully considered to prevent inappropriate views into restroom facilities.

- **Covered Walkways**: Connect restrooms to other buildings via covered walkways and / or extended overhangs.

- **Sustainability and Environment: :** For new construction, and modernization where feasible, design classroom spaces with the following attributes:
    - Integrated design
    - Sustainable building materials and products and adequate ventilation to promote healthy indoor air quality
    - Energy and water conservation and efficiency

- **Two-Story Construction:** Provide student and staff restrooms on all floors of any multi-story buildings.

- **ADA Compliance:** Design and distribute all newly constructed and modernized restrooms to follow the Americans with Disabilities Act (ADA).

- **Ancillary Space(s)**:
    1. Storage/Janitorial: Provide storage rooms nearby for restroom and cleaning supplies.

- **Adjacencies:**
    1. Distribute restrooms at multiple locations around campus to minimize travel time and comply with ADA.
    2. Locate storage/janitorial room adjacent to restrooms for ease of replenishing supplies.

PHYSICAL REQUIREMENTS:

- **Restroom Size:** Multiple fixture restrooms for middle school campuses should not exceed three stalls/location. All gender restroom requirements may encourage multiple single occupancy restrooms instead of multiple fixture restrooms.

- **Ceiling Height:** Ceiling height to remain as is in existing restrooms. Minimum ceiling height for new construction with flat ceilings is 10’-0”. New restrooms with sloped ceilings may start with a 9’-0” plate height. Ceiling configuration in new construction should allow for daylighting into interior spaces if possible.

- **Doors:** Provide (1) 3’-0” wide entry / exit door per restroom. Provide steel doors for all exterior doors. Provide louver or undercut for ventilation.

- **Architectural Fit and Finish:**
  Floors: Floor finishes in existing student restrooms to remain if feasible. New student restrooms to have epoxy flooring. Install epoxy or other resilient flooring in staff restrooms. Coordinate with standard color palette for each school. Review second-story tile flooring details carefully for waterproofing issues.
- Walls: Wall finishes in existing restrooms to remain if feasible. New restrooms to have ceramic tile to approximately 7'-2" H (align with top of door frames). Painted gypsum board above. Coordinate with standard color palette for each school.
- Ceiling: Painted gypsum board ceilings, typical through out.
- Doors and Frames: painted.

Specialties:
- Restroom accessories: See PAUSD Technical Standards for accessories to be provided.
- Toilet partitions: See PAUSD Technical Standards for type and materials of partitions. Take special care to ensure privacy is maintained.
- Mirrors: Provide (1) mirror in all single occupancy restrooms. Provide (1) mirror for each lavatory in multiple occupant staff restrooms.

Mechanical:
- Heating: Provide for staff restrooms only.
- Air Conditioning: Air conditioning will not be provided in student or staff restrooms.
- Exhaust Fans: Provide adequate exhaust capability as needed to meet air change requirements.

Plumbing:
- Hot water: Provide hot water at staff and nurse's station restrooms only.
- Hose bibs: Provide (1) hose bib at all multiple occupant restrooms.
- Floor drains: Provide (1) floor drain at all multiple occupant restrooms. Slope floors to drain where feasible.
- See PAUSD Technical Standards for specific toilet, urinal, and lavatory fixtures.

Lighting:
- Lighting Level: Per code
- Light Type: LED
- Title 24 Energy: Motion sensor to turn on/off lights. Ceiling mounted in boys/girls' rooms; wall mounted in staff.
