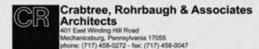
STATE COLLEGE AREA HIGH SCHOOL

30% SUBMISSION OCTOBER 29, 2014





ARCHITECTS



MEP ENGINEERS



CM SERVICES



CIVIL ENGINEERS



PURPOSE

THE GOAL OF THIS PROGRAM IS FOR COMMUNITY MEMBERS TO:

REVIEW THE PROGRESS OF THE PROJECT SINCE THE REFERENDUM PASSED

SHARE FEEDBACK WITH MEMBERS OF THE BOARD, DESIGN TEAM, & DISTRICT ADMINISTRATION.

AGENDA

PRESENTATION 6:00 – 6:30 PM

SESSION ONE 6:40 – 7:10 PM

SESSION TWO 7:15 – 7:45 PM

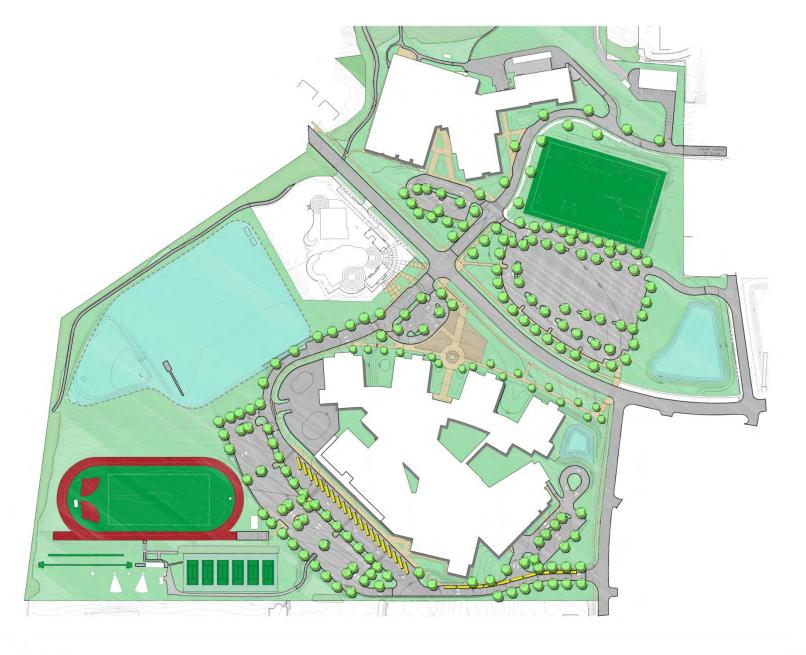
SESSION THREE 7:50 – 8:20 PM

OPEN SESSIONS UNTIL 9:00 PM

OPTIONAL:

PUBLIC COMMENT 8:30 PM

- 01 SITE
- **02** PROGRAM
- 03 BUILDING DESIGN
- **04** Engineering
- 05 SCHEDULE
- **06** PHASING
- **07** COST
- 08 LEED





TO DATE

| 01 | ZONING VARIANCES (PARKING RELATED) |
|----|---|
| | HEARING SCHEDULED OCTOBER 28TH |

- O2 TEXT AMENDMENT (BUILDING HEIGHT)

 ZONING TEXT AMENDMENT REQUEST

 PUBLIC HEARING DECEMBER 1ST
- O3 TRAFFIC IMPACT STUDY
 IN PROCESS (DATA COLLECTION IN SEPTEMBER AND CURRENT)

UPCOMING

O4 PRELIMINARY LAND DEVELOPMENT

PLANS WITH CONDITIONAL USE FOR

PARKING REDUCTION

TENTATIVE SUMBMISSION NOVEMBER 10TH









MAIN ENTRANCE



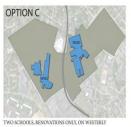


- SITE
- 02 PROGRAM
- BUILDING DESIGN
- ENGINEERING
- 05 SCHEDULE
- PHASING
- COST
- 08 LEED



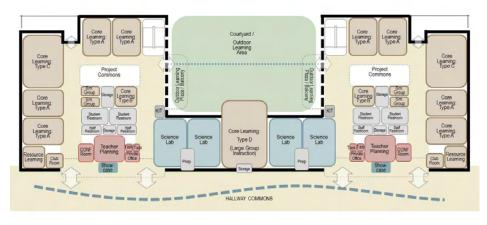




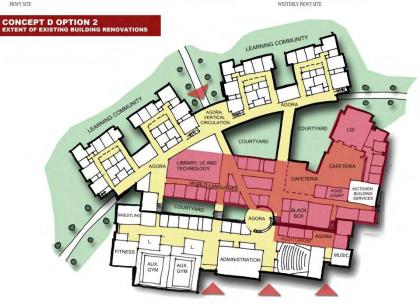








Planning Diagram: Learning Community - 9th





NOTE: THE BUILDING AND EDUCATIONAL MODEL FROM THE REFERENDUM HAS CONTINUED TO EVOLVE, NOW INCORPORATING FURTHER INPUT FROM SCASD STAFF ALONG WITH ENGINEERS, CONSTRUCTION MANAGERS, FOOD SERVICE PERSONNEL, CODE OFFICIALS, EMERGENCY SERVICES AND SPECIALTY CONSULTANTS.





DESIRED



ACTUAL

| | SPACE CATEGORY | Net Area Sub-Total |
|--|---------------------------|-----------------------|
| | | (sq.ft.) |
| 1.0 9th 0 | GRADE LEARNING COMMUNITY | |
| 1.01 | Core Learning & Support | 13,800 |
| 1.02 | 9th Grade Science | 6,100 |
| 1.03 | Student Commons | 2,700 |
| 1.04 | Staff Support | 2,240 |
| | Sub-Total: | 24,840 |
| 2.0 ART | S & HUMANITIES LC | |
| 2.01 | Core Learning & Support | 12,100 |
| 2.02 | Science | 6,100 |
| 2.03 | Student Commons | 2,700 |
| 2.04 | Staff Support | 2.240 |
| - | Sub-Total: | 23,140 |
| 3.0 BUS | INESS & COMMUNICATIONS LC | |
| 3.01 | Core Learning & Support | 12,100 |
| 3.02 | Science | 6.100 |
| 3.03 | Business & Management | 5.000 |
| 3.04 | Student Commons | 2.700 |
| 3.05 | Staff Support | 2,240 |
| 4.11 | Sub-Total: | 28,140 |
| 4.0 HEA | LTH & HUMAN SERVICES LC | |
| 4.01 | Core Learning & Support | 12,100 |
| 4.02 | Science | 6,100 |
| 4.03 | Applied Labs & Support | 10,120 |
| 4.04 | Student Commons | 2.700 |
| 4.05 | Staff Support | 2.240 |
| -1.44 | Sub-Total: | 33,260 |
| 5.0 S.T. | E.M. LEARNING COMMUNITY | 10,000 |
| 5.01 | Core Learning & Support | 12,100 |
| 5.02 | Science | 6,100 |
| 5.03 | Tech Ed | 5,200 |
| 5.04 | CTC | 15,600 |
| 5.05 | Student Commons & Support | 4,800 |
| 5.06 | Staff Support | 3,520 |
| - | Sub-Total: | 47,320 |
| 6.0 SPE | CIALTY PROGRAMS | |
| 6.01 | World Languages | 10,700 |
| 6.02 | Special Education | 5,150 |
| 6.03 | ELL Program | 900 |
| the factor of th | Sub-Total: | 16,750 |

| PROGRAM | | REA NET | ACTUAL NET AREA | * | TEA | | ACTUAL TEACHING STATIONS | REFER TO THE FOLLOWING NOTE: BELOW. |
|--------------------------------|---------|---------|--------------------|-------|-----|----|--------------------------------|---|
| 1.0 9th GRADE LEARNING COMMU | INITY | | | | | | | |
| 1.01 Core Learning & Support | 13,800 | 11,400 | 13,298 | 16.6% | | 10 | 12 | 1 |
| 1.02 9th Grade Science | | 6,100 | 6,872 | 12.7% | | 4 | 4 | 2 |
| 1.03 Student Commons | | 2,700 | 2,926 | 8.4% | | | | 3 |
| 1.04 Staff Support | | 2,240 | 2,600 | 16.1% | | | | 3, 4 |
| TOTAL | | 22440 | 25696 | 14.5% | | 14 | 16 | |
| 2.0 ARTS & HUMANITIES LEARNS | NG COM | MUNITY | | | | | | |
| 2.01 Core Learning & Support | 12,100 | 9,700 | 10,478 | 8.0% | | 9 | 10 | 1, 5, 6 |
| 2.02 Science | | 6,100 | 6,872 | 12.7% | | 4 | 4 | 2 |
| 2.03 Student Commons | | 2,700 | 2,926 | 8.4% | | | | 3 |
| 2.04 Staff Support | | 2,240 | 2,600 | 16.1% | | | | 3, 4 |
| TOTAL | | 20740 | 22,676 | 10.3% | | 13 | 14 | |
| 3.0 BUSINESS & COMMUNICATO | NS LEAR | NING CO | MMUNITY | | | | | |
| 3.01 Core Learning & Support | 42,400 | 9,700 | 9,913 | 2.2% | | 9 | 9 | 1 |
| 3.02 Science | | 6,100 | 6,872 | 12.7% | | 4 | 4 | 2 |
| 3.03 Business & Management | | 5,000 | 4,978 | -0.4% | | 4 | 4 | 7 |
| 3.04 Student Commons | | 2,700 | 2,926 | 8.4% | | | | 3 |
| 3.05 Staff Support | | 2,240 | 2,600 | 16.1% | | | | 3 |
| TOTAL | | 25,740 | 27,289 | 6.0% | | 17 | 17 | |
| 4.0 HEALTH & HUMAN SERVICES | _ | | | | | | | |
| 4.01 Core Learning & Support | 12,400 | 9,700 | 11,817 | 21.8% | | 9 | 11 | 1 |
| 4.02 Science | | 6,100 | 6,872 | 12.7% | | 4 | - 4 | 2 |
| 4.03 Applied Labs & Support | 46,420 | 4,880 | 5,604 | 14.8% | - 6 | 3 | 3 | 8, 9 |
| 4.04 Student Commons | | 2,700 | 2,694 | -0.2% | - | | | 3 |
| 4.05 Staff Support | | 2,240 | 2,792 | 24.6% | | | | 3 |
| TOTAL | - | 25,620 | 29,779 | 16.2% | | 16 | 18 | |
| 5.0 S.T.E.M. LEARNING COMMUN | | 4 700 | 10.043 | 3.6% | | | - 44 | |
| 5.01 Core Learning & Support | 12,400 | 9,700 | 6.872 | 3.5% | | 9 | 10 | 1 |
| 5.02 Science | | 6,100 | 4,953 | 4.8% | + | | | 2 |
| 5.03 Tech Ed 5.04 CTC | 15.400 | 5,200 | 16,112 | 7.4% | | 8 | 6 | 10 |
| 771-707 | +0.000 | 15,000 | 5,023 | 4.6% | | | | 3 |
| 5.05 Student Commons & Support | | 4,800 | 3,447 | -2.1% | | | -:- | 3 |
| 5.06 Staff Support | | 3,520 | 3,991 | -2.1% | ++ | | - | 3 |
| 5.07 Outdoor Areas TOTAL | | 44.320 | 46.450 | 4.8% | | 21 | 22 | 3 |
| 6.0 SPECIALTY PROGRAMS | | 44,320 | 46,400 | 4.0% | | 41 | 22 | |
| 6.01 World Languages | | 10,700 | 11,447 | 7.0% | | 12 | 12 | |
| 6.02 Special Education | | 5,150 | 5.892 | 14.4% | | 4 | 5 | |
| 6.03 ELL Program | | 900 | 856 | 4.9% | | 1 | 1 | |
| TOTAL | | 15.790 | 18,195 | 8.6% | | 17 | 18 | |

NOTE: IMPLEMENTED EDUCATIONAL PROGRAM IS WITHIN 8% OF FINAL EDUCATIONAL SPECIFICATIONS AND OVERALL BUILDING SQUARE FOOTAGE IS WITHIN 2% OF REFERENDUM DESIGN.

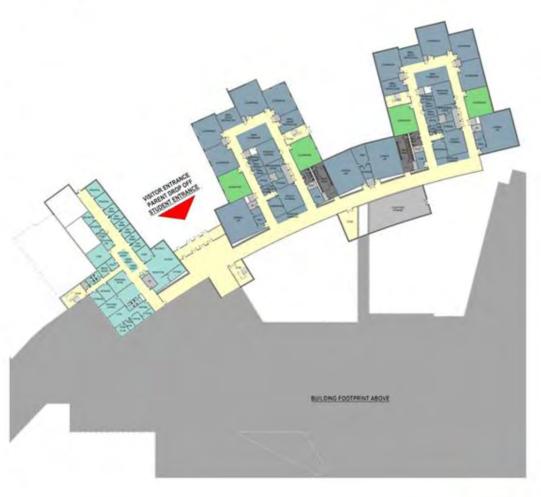


ACTUAL



LOCATION

| PROGRAM | | ED NET REA | ACTUAL NET AREA | 8 | | ACTUAL TEACHING STATIONS | REFER TO THE FOLLOWING NOTE: BELOW. |
|---------------------------------------|---------|---------------|--------------------|----------|-----|--------------------------------|---|
| 1.0 9th GRADE LEARNING COMMU | INITY | | | | | | |
| 1.01 Core Learning & Support | 43,800 | 11,400 | 13,298 | 16.6% | 10 | 12 | 1 |
| 1.02 9th Grade Science | | 6,100 | 6,872 | 12.7% | 4 | 4 | 2 |
| 1.03 Student Commons | | 2,700 | 2,926 | 8.4% | | | 3 |
| 1.04 Staff Support | | 2,240 | 2,600 | 16.1% | | | 3, 4 |
| TOTAL | | 22440 | 25696 | 14,5% | 14 | 16 | |
| 2.0 ARTS & HUMANITIES LEARNI | NG COM | MUNITY | | | | | |
| 2.01 Core Learning & Support | 12,100 | 9,700 | 10,478 | 8.0% | 9 | 10 | 1, 5, 6 |
| 2.02 Science | | 6,100 | 6,872 | 12.7% | 4 | 4 | 2 |
| 2.03 Student Commons | | 2,700 | 2,926 | 8.4% | | | 3 |
| 2.04 Staff Support | | 2,240 | 2,600 | 16.1% | | | 3, 4 |
| TOTAL | | 20740 | 22.876 | 10.3% | 13 | 14 | |
| 3.0 BUSINESS & COMMUNICATO | NS LEAR | NING CO | | | | | |
| 3.01 Core Learning & Support | 12,100 | 9,700 | 9,913 | 2.2% | 9 | 9 | 1 |
| 3.02 Science | | 6,100 | 6,872 | 12.7% | 4 | 4 | 2 |
| 3.03 Business & Management | | 5,000 | 4,978 | -0.4% | 4 | 4 | 7 |
| 3.04 Student Commons | | 2,700 | 2,926 | 8.4% | | | 3 |
| 3.05 Staff Support | | 2,240 | 2,600 | 16.1% | | | 3 |
| TOTAL | | 25,740 | 27,289 | 6.0% | 17 | 17 | |
| 4.0 HEALTH & HUMAN SERVICES | _ | | | | | | _ |
| 4.01 Core Learning & Support | 12,100 | 9,700 | 11,817 | 21.8% | 9 | 11 | 1 |
| 4.02 Science | | 6,100 | 6,872 | 12.7% | 4 | 4 | 2 |
| 4.03 Applied Labs & Support | 10,120 | 4,880 | 5,604 | 14.8% | 6 3 | 3 | 8, 9 |
| 4.04 Student Commons | | 2,700 | 2,694 | -0.2% | | | 3 |
| 4.05 Staff Support | | 2,240 | 2,792 | 24.6% | | | 3 |
| TOTAL 5.0 S.T.E.M. LEARNING COMMUN | 70 | 25,620 | 29,779 | 16.2% | 协 | 18 | |
| 5.01 Core Learning & Support | 12,100 | 9,700 | 10.043 | 3.5% | 9 | 10 | 1 |
| 5.02 Science | 10,100 | 6,100 | 6.872 | 12.7% | 4 | 4 | 2 |
| 5.03 Tech Ed | | 5,200 | 4,953 | 4.8% | 2 | 2 | - |
| 5.04 CTC | 15.600 | 15.000 | 16,112 | 7.4% | - 6 | 6 | 10 |
| 5.05 Student Commons & Support | 10(000 | 4,800 | 5.023 | 4.6% | | | 3 |
| 5.06 Staff Support | | 3,520 | 3,447 | -2.1% | | | 3 |
| 5.07 Outdoor Amon | | 3,340 | | 196-1100 | | - : | 3 |
| 5.07 OUESSOF APRIES | | 44.320 | 46,450 | 4.8% | 21 | 72 | 3 |
| 6.0 SPECIALTY PROGRAMS | | 44,300 | 40,400 | 4.079 | 43 | 14 | |
| 6.01 World Languages | | 10,700 | 11,447 | 7.0% | 12 | 12 | |
| 6.02 Special Education | | 5,150 | 5,892 | 14.4% | 4 | 5 | |
| 6.03 ELL Program | | 900 | 856 | 4.9% | 1 | 1 | |
| TOTAL | | 16,750 | 18,195 | 8.6% | 17 | 18 | |



NOTE: EDUCATIONAL SPECIFICATIONS HAVE BEEN INCORPORATED INTO THE BUILDING DESIGN. AS DESIGN TEAM CONTINUES TO MEET WITH ADMINISTRATION, FACULTY AND STAFF THROUGH 60% PROCESS OVER NEXT 3-4 MONTHS, FINAL PROGRAM AND DESIGN WILL BE COMPLETED.











ADMIN & STUDENT SERVICES CIRCULATION DELTA PROGRAM PHYS ED, HEALTH & ATHLETICS STUDENT COMMONS/ DINING

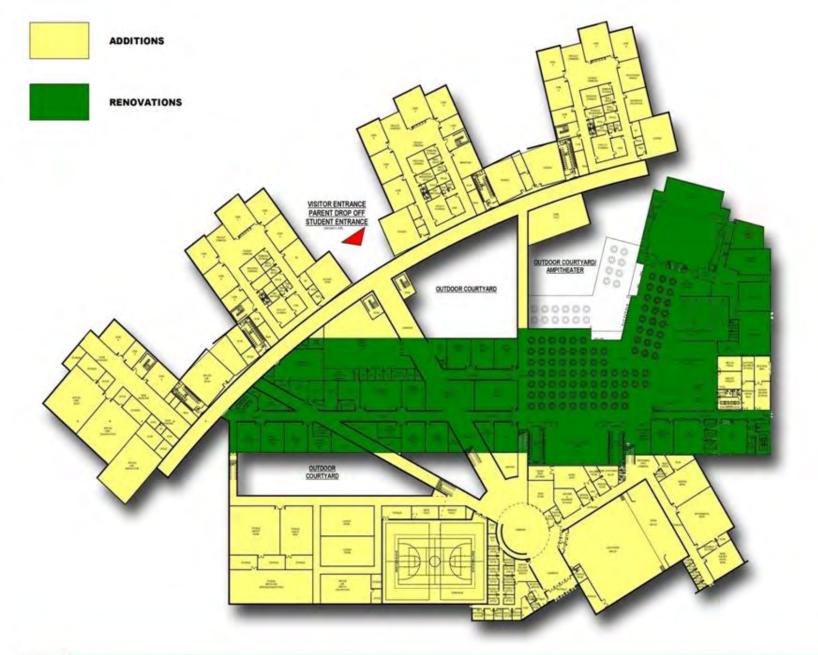
SUPPORT TOILETS







- 01 SITE
- PROGRAM
- 03 BUILDING DESIGN
- Engineering
- 05 SCHEDULE
- PHASING
- COST
- LEED























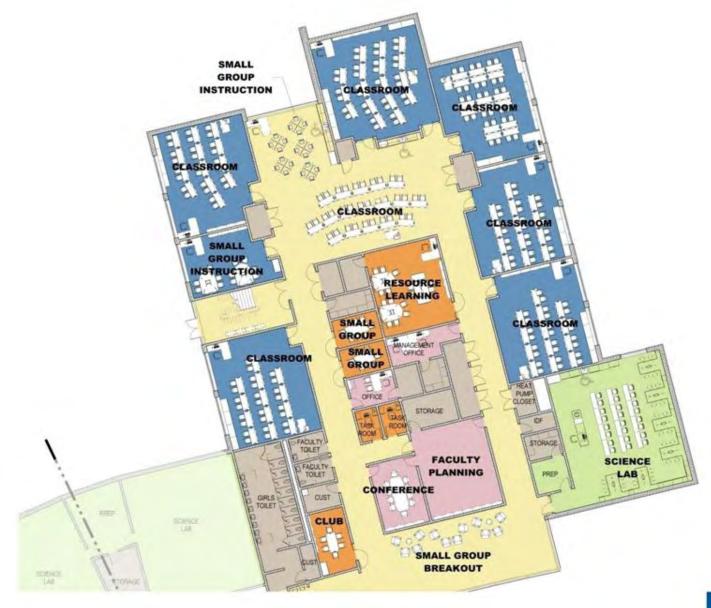
Legend Admin Art Classroom Corridor Gym ROOF Science ROOF SGI Stairs Storage Toilet Utility CLASSROOM CLASSROOM CLASSROOM SCIENCE CLASSROOM ROOF CLASSROOM CLASSROOM CLASSROOM OPEN CLASSROOM SMALL GROUP INSTRUCTION 3.07





Admin Classroom Corridor Science SGI

Utility









VIEW FROM MAIN VEHICULAR ENTRANCE





OVERALL AERIAL VIEW





OVERALL AERIAL VIEW



- SITE
- PROGRAM
- BUILDING DESIGN
- 04 ENGINEERING
- 05 SCHEDULE
- PHASING
- COST
- 08 LEED

SYSTEM RECOMMENDED

01 4 – PIPE ROOF-MOUNTED AHU

WITH ENERGY RECOVERY & HYDRONIC REHEAT IN VAV BOXES CHILLER WATER COOLING

02 WATER SOURCE HEAT PUMPS

WITH CLOSED CIRCUIT & GAS-FIRED BOILER DEDICATED OUTDOOR AIR SYSTEM (DOAS) WITH ENERGY RECOVERY

03 4 – PIPE CHILLED BEAMS

DOAS WITH ENERGY RECOVERY

04 4-PIPE SYSTEM WITH ROOF
MOUNTED AIR HANDLING UNITS

WITH DISPLACEMENT VENTILATION THERMAL "ICE" STORAGE TO REDUCE SIZE OF CHILLER EQUIPMENT



SYSTEM RECOMMENDED



01 4 – PIPE ROOF-MOUNTED AHU

WITH ENERGY RECOVERY & HYDRONIC REHEAT IN VAV BOXES
CHILLER WATER COOLING

02 WATER SOURCE HEAT PUMPS

WITH CLOSED CIRCUIT & GAS-FIRED BOILER DEDICATED OUTDOOR AIR SYSTEM (DOAS) WITH ENERGY RECOVERY

03 4 – PIPE CHILLED BEAMS

DOAS WITH ENERGY RECOVERY

04 4-PIPE SYSTEM WITH ROOF
MOUNTED AIR HANDLING UNITS

WITH DISPLACEMENT VENTILATION
THERMAL "ICE" STORAGE TO REDUCE
SIZE OF CHILLER EQUIPMENT



WHY WATER SOURCE HEAT PUMPS



01 LOWEST FIRST COST

OF ALL OPTIONS

02 "EASY" ACCESS

TO MAINTAIN EQUIPMENT

03 ONE UNIT PER THERMAL ZONE

ONE UNIT PER CLASSROOM

WILL GROUP SIMILAR

OCCUPANCIES TOGETHER

LARGER ROOF-MOUNTED UNITS FOR LARGE OCCUPANCY AREAS

04 DOAS W/ ENERGY RECOVERY

WHEELS

CO₂ CONTROL

05 BASE-MOUNTED PUMPS

FOR WATER CIRCULATION



SYSTEMS SORTED BY CONSTRUCTION COST

(LOWEST TO HIGHEST)

1

| System type | Construction cost | Utility cost (Year 1) | Maintenance cost (Year 1) | Life cycle cost (20 Year) |
|--------------------------------------|-------------------|-----------------------|---------------------------|---------------------------|
| Water source heat pump system | \$13,860,000 | \$381,846 | \$247,500 | \$34,077,157 |
| 4-Pipe Rooftop VAV System | \$14,850,000 | \$395,195 | \$247,500 | \$35,578,863 |
| 4-Pipe Rooftop VAV System with DV | \$14,850,000 | \$328,929 | \$257,499 | \$33,658,423 |
| Four-pipe chilled beam system | \$17,325,000 | \$292,785 | \$217,800 | \$35,696,123 |

SYSTEMS SORTED BY LIFE CYCLE

(LOWEST TO HIGHEST)

2

| System type | Construction cost | Utility cost (Year 1) | Maintenance cost (Year 1) | Life cycle cost (20 Year) |
|--------------------------------------|-------------------|-----------------------|---------------------------|---------------------------|
| 4-Pipe Rooftop VAV System with DV | \$14,850,000 | \$425,504 | \$333,102 | \$33,658,423 |
| Water source heat pump system | \$13,860,000 | \$381,846 | \$247,500 | \$34,077,157 |
| 4-Pipe Rooftop VAV System | \$14,850,000 | \$395,195 | \$247,500 | \$35,578,863 |
| Four-pipe chilled beam system | \$17,325,000 | \$292,785 | \$217,800 | \$35,696,123 |

- 1. The utility costs are calculated using eQuest.
- 2. Utility cost based on 12 month average from existing high school buildings.
- 3. Assumptions: 3% interest rate, 2% escalation on utility costs.
- 4. Does not include associated general construction costs (ie heat pump closets)
- 5. Final building footprint will affect costs.
- 6. Conductivity testing data may make geothermal heat pumps a viable option.
- 7. \$\$ listed is not meant to be a specific dollar amount, but meant to establish a range and ranking of systems. These numbers will change as design progresses.



DESIGN INTENT

01 ALL NEW PLUMBING FIXTURES

VITREOUS CHINA FIXTURES IN BATHROOMS
S/S SINKS IN VARIOUS AREAS
MANUAL FLUSH VALVES ON WATER CLOSETS
URINALS (LOW FLOW VS WATERLESS)
BATTERY OPERATED SENSOR FAUCETS
SOLIDS INTERCEPTORS IN ART SINKS
BI-LEVEL WATER COOLERS

02 ALL NEW PIPING

DOMESTIC, WASTE, VENT, GAS, ETC.

03 GAS-FIRED HOT WATER GENERATOR

HIGH EFFICIENCY STORAGE TYPE DISTRIBUTE 140°F WATER MIXED DOWN AT POINT OF USE

04 FULLY SPRINKLERED BUILDING

STANDPIPE SYSTEM IN 2 PODS FIRE PUMP REQUIRED



DESIGN INTENT

05 ACID NEUTRALIZATION SYSTEM

OUTDOOR CONCRETE VAULT TYPE

06 LIMITED RAINWATER HARVESTING SYSTEM

10,000 GALLON STORAGE TANK

GREY-WATER USE FOR PLUMBING FIXTURES OR HVAC

MAKEUP WATER

SKID-MOUNTED PROCESSING EQUIPMENT



DESIGN INTENT

| 01 | NEW ELECTRICAL SERVICES |
|----|------------------------------------|
| 02 | NEW POWER DISTRIBUTION |
| 03 | LED LIGHTING INTERIOR |
| 04 | DIGITAL LIGHTING MANAGEMENT SYSTEM |
| 05 | EMERGENCY GENERATOR SETS |
| 06 | DATA CENTER RELOCATION |
| 07 | TYPICAL CLASSROOM SYSTEMS LAYOUT |
| 08 | BUILDING SYSTEMS |
| 09 | FIRE ALARM SYSTEM |
| 10 | SECURITY & ACCESS CONTROL SYSTEMS |





NEW ELECTRICAL SERVICES



NORTH BUILDING

EXISTING SERVICE TO REMAIN UNLESS OPTION 2 IS SELECTED NEW 480/277V, 3-PHASE, 4-WIRE SERVICE

SOUTH BUILDING

TWO (2) 480/277V, 3-PHASE, 4-WIRE SERVICE

NEW POWER DISTRIBUTION SERVICES



ELECTRICAL SWITCHBOARD

FOR EACH UTILITY SERVICE FEEDING THE BUILDING

NEW PANELBOARDS

FED FROM NEAREST SWITCHBOARD AND THROUGHOUT BUILDING

POWER WIRING & DISCONNECTING

PROVIDED FOR HVAC, PLUMBING, & OWNER FURNISHED EQUIPMENT





LED LIGHTING INTERIOR

LIGHTING TO BE LED

EXCEPTION SPECIALTY FIXTURES

2 x 2 RECESSED FIXTURES 02

> FOR CLASSROOMS WITH AVERAGE 35 – 50 FOOTCANDLES OF ILLUMINATION

2 x 4 RECESSED FIXTURES 03

> FOR CORRIDORS WITH AVERAGE 10 – 20 FOOTCANDLES OF ILLUMINATION

HIGH BAY STYLE LED FIXTURES

FOR GYMNASIUM WITH AVERAGE 75 – 100 FOOTCANDLES OF ILLUMINATION

DECORATIVE FIXTURES 05

> MAY BE SELECTED FOR SPACES LIKE MAIN ENTRY, LIBRARY AND CAFETERIA.

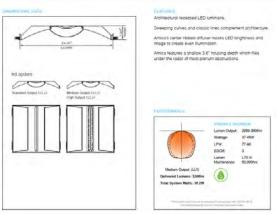
ILLUMINATING ENGINEERING 06

SOCIETY (IES)

RECOMMENDATIONS SHALL BE MET FOR LIGHTING LEVELS

4.09







TYP. CLASSROOM FIXTURES



04

DIGITAL LIGHTING MANAGEMENT SYSTEM

| 01 | FOUR-BUTTON LOW VOLTAGE WALL STATION |
|----|---|
| | FOR LIGHTING CONTROLS INCLUDING: ALL 'ON', ALL 'OFF', |
| | A/V MODE, PLUG LOAD CONTROL |

02 VACANCY SENSORS

TO PROVIDE AUTOMATIC 'SHUT-OFF' LIGHTING SHALL BE MANUAL 'ON', AUTO 'OFF'

03 PHOTOSENSOR IN SELECT ROOMS

FOR DAYLIGHT HARVESTING

04 INTEGRATED CONTROL SETBACK OF HVAC

IN EACH SPACE WHEN ROOM IS UNOCCUPIED

05 INTEGRATED PLUG LOAD REDUCTION

DESIGNED TO SHUT OFF POWER TO SPECIFIC RECEPTACLES IN CLASSROOMS AND OFFICES WHEN SPACE IS UNOCCUPIED.



BUILDING SYSTEMS

VOICE OVER INTERNET PROTOCOL (VOIP)

A NEW VOIP SYSTEM WILL BE PROVIDED BASED UPON THE SCHOOL DISTRICT'S CURRENT DISTRICT WIDE SYSTEM.

THE PHONE SYSTEM SHALL BE INTEGRATED WITH THE INTERCOM SYSTEM ALLOWING FOR INTERCOM ACCESS VIA ANY PROGRAMMED WALL OR DESK STATION.

INTERCOM SYSTEM

SHALL BE DESIGNED WITH THE ABILITY TO MAKE PROGRAM CHANGES VIA A NETWORK WEB PORTAL.

ALL OCCUPIED SPACES SHALL HAVE AN INTERCOM SPEAKER.

REMOTE SOUND SYSTEM

SHALL BE PROVIDED FOR GYMNASIUM, AUDITORIUM AND CAFETERIA.

CLOCK AND PROGRAM SYSTEM

SHALL BE WIRELESS CORRECTED ANALOG CLOCKS WITH HARDWIRED POWER.

DATA SYSTEM

COMPUTER DATA CABLING SHALL BE CATEGORY 6 RATED.
THE ENTIRE BUILDING SHALL BE PROVIDED WITH WIRELESS ACCESS POINT CONNECTIONS USING CATEGORY 6 CABLING.





FIRE ALARM SYSTEM

THE FIRE ALARM SYSTEM WILL BE A DIGITAL ADDRESSABLE SYSTEM.

VISUAL/AUDIBLE AND VISUAL NOTIFICATION DEVICES SHALL BE PROVIDED AS REQUIRED BY CODE.

SMOKE DETECTION SHALL BE PROVIDED AT ALL FIRE ALARM PANELS, STORAGE ROOMS, FIRE DOORS, DOOR OPENS, ELEVATORS, ETC., AS REQUIRED BY CODE.

CARBON MONOXIDE DETECTORS SHALL BE PROVIDED AT ALL ROOMS WITH A NATURAL GAS CONNECTION.

SECURITY + ACCESS CONTROL SYSTEMS

ACCESS CONTROL SYSTEM WILL BE BASED UPON THE DISTRICT WIDE SYSTEM.

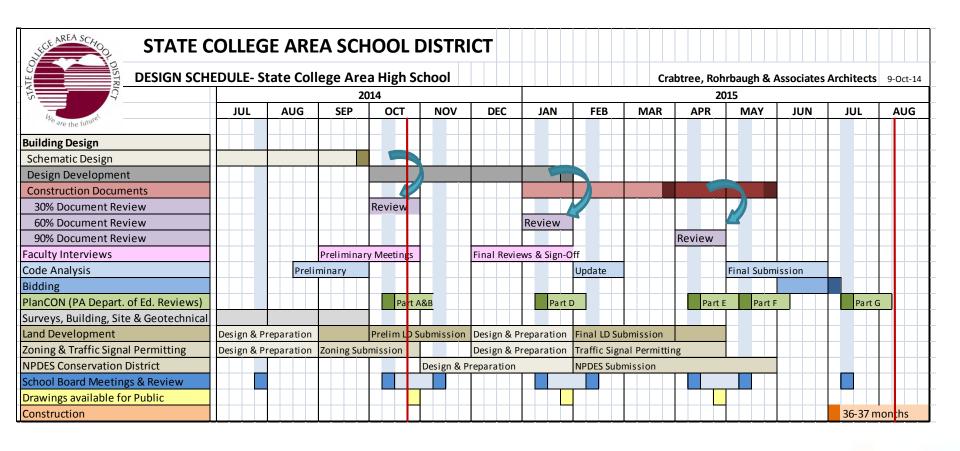
ACCESS CONTROL CARD READERS WILL BE LOCATED AT AREAS AS DIRECTED BY THE SCHOOL DISTRICT.

SECURITY SYSTEM SHALL HAVE PANIC BUTTONS LOCATED IN THE MAIN OFFICE FOR EMERGENCY SITUATIONS.

INTERNET PROTOCOL CLOSED CIRCUIT TELEVISION (IP CCTV) COVER SHALL BE THROUGHOUT ALL GENERAL AREAS OF THE BUILDING.



- 01 SITE
- 02 PROGRAM
- **03** BUILDING DESIGN
- **04** ENGINEERING
- 05 SCHEDULE
- **06** PHASING
- **07** COST
- 08 LEED





- 01 SITE
- **02** PROGRAM
- 03 BUILDING DESIGN
- **04** Engineering
- 05 SCHEDULE
- 06 PHASING
- **07** COST
- 08 LEED

CONSIDERATIONS

| 01 | STUDENT PEDESTRIAN SAFETY |
|----|---|
| 02 | CONTROLLED WORK AREA SAFETY ZONES FOR NORTH SITE & SOUTH SITE |
| 03 | TEMPORARY ON-SITE PARKING STUDENTS, STAFF, & DROP-OFFS |
| 04 | SCHOOL CALENDAR MAXIMUM SUMMER UTILIZATION |
| 05 | TEMPORARY BAND PRACTICE AREAS |
| 06 | TEMPORARY POOL PARKING |
| 07 | BUS ACCESS + QUEUING & STUDENT ENTRY POINTS |





CONSIDERATIONS

| 07 | OFF-SITE PARKING ANALYSIS NOT RECOMMENDED |
|----|--|
| 08 | LOSS/ REPLACEMENT OF PROGRAMMING WITH DEMO & NEW CONSTRUCTION |
| 09 | FOOD SERVICE AREAS INCLUDING EATERY, KITCHEN REPLACEMENT & RELOCATION OF DISTRICT-WIDE KITCHEN |
| 10 | CONTRACTOR'S AREAS FIELD OFFICE & STAGING AREAS |
| 11 | COMPLETION OF SOUTH BUILDING WHILE NORTH IS BEING COMPLETED |





JUNE 2015 – AUGUST 2015



Key Changes

 South Building Parking Lots Prepped for Construction Parking Spaces Lost 35 Spaces

Temporary Parking Lots Constructed

Parking Spaces Provided 75 Spaces

Permanent Parking Lot Constructed

Parking Spaces Added

· Partial Demolition of South Building

Program Space Lost XX Classrooms

· Partial Renovation of Cafeteria Seating Area

0 (Completed prior to **Program Space Lost**

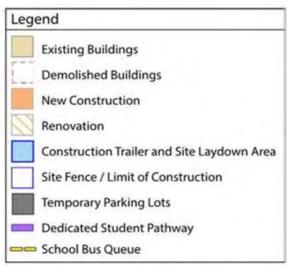
school year)

197 Spaces

Bus Loop Established



SEPTEMBER 2015 – JANUARY 2017



Key Changes

South Building Parking Lot Demolished

Parking Spaces Lost

290 Spaces

Temporary Parking Lots Constructed

Parking Spaces Provided - 50 Spaces

Permanent Parking Lost Constructed

Spaces Added (Ph 1.1)

197 Spaces

Spaces Added (Ph 1.2)

29 Spaces

52 Spaces Add'l for Pool

· Partial Demo / Reno of South Building

Program Space Lost

XX Classrooms

- Relocation of Band Practice Area
- Renovation of Kitchen (Jan 2016 Aug 2016)





Key Changes

Temporary Parking Lots

Spaces Added (Ph 1) - 50 Spaces Spaces Removed (Ph 2) - 50 Spaces

Permanent Parking Lots Constructed

Spaces Added (Ph 1) - 226 Spaces

52 Spaces Add'l for Pool

· Remaining Demo / Reno of South Building

Program Space Lost (Ph 1) - XX Classrooms Program Space Lost (Ph 2) - XX Classrooms

- Construction Started on Remaining South Bldg
- Renovation of Existing South Building
- West Wings Occupied by Students (Jan 2017)

Program Space Added - XX Classrooms

• East Wings Occupied by Students (Sept 2017)

Program Space Added - XX Classrooms



Legend

Existing Buildings

Demolition

New Construction

Renovation

Construction Trailer and Site Laydown Area

Site Fence / Limit of Construction

Temporary Parking Lots

Key Changes

Pool Parking

South Building Parking Lot Demolished

Spaces Lost (Ph 1)

290 Spaces

Permanent Parking Lots Constructed

Spaces Added (Ph 1) -

52 Spaces Add'l for Pool

226 Spaces

Spaces Added (Ph 2.2) - 88 Spaces

20 Spaces for Bus Queue

Remaining Renovation of South Building

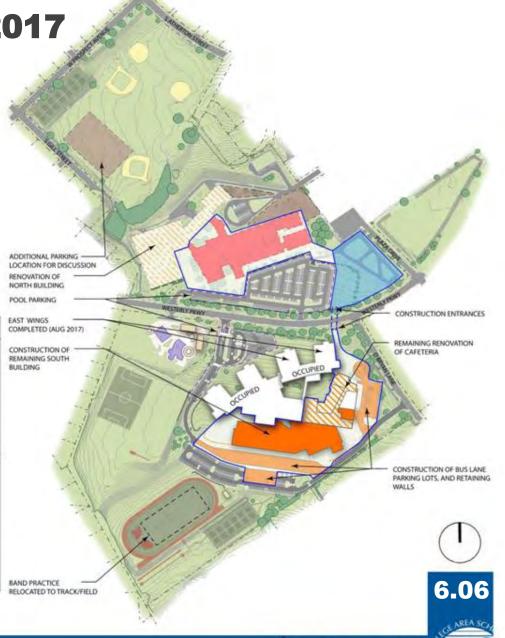
Program Space Lost (Ph 1) - XX Classrooms Program Space Lost (Ph 2) - XX Classrooms

South Bldg Wings Completed & Occupiable by Students

Program Space Added - XX Classrooms

Continued Construction of South Building

Busway Constructed



SEPTEMBER 2017 – MAY 2018

Legend
Existing Buildings
Demolished Buildings
New Construction
Renovation

Key Changes

Permanent Parking Lots Constructed

Construction Trailer and Site Laydown Area

Site Fence / Limit of Construction

Dedicated Student Pathway

Spaces Added (Ph 1) - 226 Spaces

52 Spaces Add'l for Pool

Spaces Added (Ph 2) - 88 Spaces

20 Spaces for Bus Queue

Demolition of North Building

Program Space Lost (Ph 3) - XX Classrooms

Renovation of North Building

Program Space Lost (Ph 3) - XX Classrooms

South Building Completed

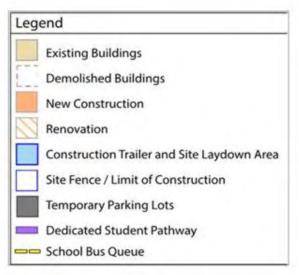
Program Space Total -

XX Classrooms

· Construction of Delta Program



JUNE 2018 - JULY 2018



Key Changes

- North and South Buildings Complete
- Sitework and North Parking Lot Constructed
- · Construction Trailers Demobilized
- All Construction Completed



- 01 SITE
- **02** PROGRAM
- **03** BUILDING DESIGN
- **04** ENGINEERING
- 05 SCHEDULE
- **06** PHASING
- 07 COST
- 08 LEED





SEPTEMBER 26, 2014 30% DRAWINGS TO MASSARO

SEPTEMBER 30, 2014 CRA/SCASD/MCMS MET TO DISCUSS 30%

OCTOBER, 2014 CRA + MCMS INDEPENDENT COST

ESTIMATES

LATE OCTOBER, 2014 ANALYSIS OF COST ESTIMATES "BELT & SUSPENDERS" APPROACH

LATE OCTOBER, 2014 COST ESTIMATE REVIEWED BY SCASD

NOVEMBER 3, 2014 COST ESTIMATE PRESENTED TO BOARD

NOVEMBER 10, 2014 COST ESTIMATE TENTATIVELY APPROVED



PRELIMINARY ALTERNATES

LIST WILL EVOLVE AS WE PROCEED TO 60% & 90% SUBMISSIONS

- 01 VEGETATED ROOF AT SOUTH BUILDING
- 02 SOLAR ARRAY AT SOUTH BUILDING
- 03 TERRAZZO IN CORRIDORS
- 04 UNCLASSIFIED SOILS
- 05 ROOFING



| Rein | nbursement Estimate | | | | |
|------|---|-------------|-------------|-----------------|-----------------------------|
| | | | | | |
| 1 | Project Type | | | Secondary | |
| 2 | Current Enrollment | | | 2,387 | PDE 2011-2012 report |
| 3 | Current Enrollment + 10% | | | 2,626 | |
| 4 | PDE Highest Projected Enrollme | nt (PDE 7/ | 2011) | 2,413 | PDE 7/2011 report |
| | | | | | |
| 5 | Highest Projected Enrollment for | Calculation | n | 2,626 | Current Enrollment + 10% |
| 6 | Planned Special Education Roon | ns | | 5 | Amy Yurko Program 1/31/2013 |
| 7 | Planned Special Education Capa | city | | 125 | |
| 8 | Reimbursement Capacity Basis | | | 2751 | |
| J | Reimbursement Capacity Basis | | | 2131 | |
| 8 | Rated Pupil Capacity | Capacity | RPC factor | | |
| 9 | | 2751 | 1.11 | 3053 | RPC |
| | Legislated Per Pupil Reimbursen | nent Allowa | ance | \$6,200 | |
| | | | | | |
| | CTC FTE | | | 462 | |
| 10 | Legislated Per Pupil Reimbursement Allowa | | ance | \$7,600 | |
| 11 | Maximum Eligible Reimbursemer | nt Rasis | High School | \$18,930,317 | Gross |
| | Maximum Eligible Reimbursemer | | CTC | \$3,511,200 | Gross |
| | Waximam Englishe Neimbardemen | | oss Total | | Gross |
| 12 | District MVAR or CARF | | | 0.2891 | New CARF, PDE Part D |
| | | | | | attachment C, April 8, 2013 |
| 13 | Existing Building Renovation- 109 | % Increase | | \$648,784 | |
| 14 | Sustainable Design (LEED)- 10% | 6 Increase | | \$648,784 | |
| | | _ | . | | |
| 15 | Estimated <u>NET</u> Reimburse | ement * | \$5,500, | 000-\$6,500,000 | NET |
| | * | | | | |

^{*} This approximate estimate will change depending on final project scope and costs, validated by 60% Submission.





- 01 SITE
- PROGRAM
- BUILDING DESIGN
- Engineering
- 05 SCHEDULE
- PHASING
- COST
- 08 LEED

| Prereq 1 Construction Activity Pollution Prevention Prereq 2 Environmental Site Assessment Credit 1 Site Selection Prereq 2 Environmental Site Assessment Credit 3 Site Selection Prereq 3 Environmental Site Assessment Credit 4.1 Alternative Transportation—Bicycle Storage and Changing Rooms Credit 4.1 Alternative Transportation—Bicycle Storage and Changing Rooms Credit 4.3 Alternative Transportation—Dew-Emitting and Fuel-Efficient Vehicles 2 Credit 4.3 Alternative Transportation—Parking Capacity Credit 5.1 Site Development—Maximize Open Space Credit 5.2 Site Development—Maximize Open Space Credit 5.2 Stormwater Design—Quality Control Credit 6.1 Stormwater Design—Quality Control Credit 7.1 Heat Island Effect—Non-roof Credit 7.1 Heat Island Effect—Roof Credit 7.1 Heat Island Effect—Roof Credit 8.1 Light Pollution Reduction Credit 9 Site Mater Island Credit 9 Site Mater Island Credit 10 Joint Use of Facilities Water Efficiency Possible Points: 11 Credit 1 Water Efficient Landscaping Credit 1 Water Efficient Landscaping Credit 2 Credit 2 Innovative Wastewater Technologies Credit 3 Water Use Reduction Credit 3 Water Use Reduction Credit 3 Process Water Use Reduction Credit 3 Water Use Reduction Credit 3 Water Use Reduction Credit 3 Water Use Reduction Credit 4 National Prevention Credit 5 Credit 5 Construction Credit 6 Credit 6 Controllability of Systems—Lighting Credit 6 Credit 7 Daylight and Views—Daylight Credit 7 Daylight and Views—Daylight Credit 1 Credit 2 Daylight and Views—Daylight Credit 1 Credit 3 Mater Use Reduction Credit 9 Forcest Water Use Reduction Credit 1 Water Efficient Landscaping Credit 1 Credit 3 Credit 1 Credit 1 Credit 1 Credit 1 Credit 1 Credit 2 Construction LAQ Management Plan—Before Occupancy Credit 6 Credit 6 Controllability of Systems—Lighting Credit 6 Credit 6 Controllability of Systems—Lighting Credit 7 Credit 7 Credit 7 Credit 6 Controllability of Systems—Lighting Credit 6 Credit 7 Credit 7 Credit 7 Credit 6 Controllability of Systems—Lighting Credit 6 Credit 7 Credit 7 Credit 7 Credit | stainable Si | ites Possi | ible Points: 24 | | Materi | als and Resources, Continued | |
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| Cedit 2 Development Density and Community Connectivity 4 Cedit 3 Cedit 4. Alternative Transportation—Public Transportation—Bicycle Storage and Changing Rooms 1 Cedit 4. Alternative Transportation—Public Transportation—Bicycle Storage and Changing Rooms 1 Cedit 5. Cedit 4. Alternative Transportation—Public Transportation—Publ | eq 2 Environr | nental Site Assessment | | 2 | Credit 4 | Recycled Content | 1 to |
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| | en 1 Storage | and Collection of Recyclables | | | credit 1.4 | negional Priority. 33co.2 Storinwater Design- Quality Control | 1 |
| Possible Poli | | | Roof 1 to 2 | 73 18 1 | Total | Possible Point | c· 11 |
| 1 Credit 1.2 Building Reuse—Maintain 50% of Interior Non-Structural Elements 1 | | | | 73 10 10 | Total | Possible Politi |). II |

NOTE: LEED CERTIFICATION MAY BE AFFECTED BY PEDA & DCED GRANTS WHICH WILL BE AWARDED IN THE NEXT MONTH. DESIGN TEAM HAS FULLY INTEGRATED LEED CERTIFICATION PROCESS INTO DESIGN AT THIS TIME INCLUDING INITIAL SPECIFICATIONS COMPLETED FOR THE 30% CERTIFICATION.







INTRODUCTION OF BREAK-OUT SESSION LEADERS



NEXT UPDATES
60% SUBMISSION FEBRUARY 2015
90% SUBMISSION SPRING 2015



MORE INFORMATION AT:

http://www.scasd.org/Page/20967