

Project Advisory Team (PAT) Meeting #3: Feb 27, 2019

HIGH SCHOOL

MUSTANGS



Welcome & Introductions

Spring Branch ISD

- Scott Muri
- Jennifer Blaine
- Travis Stanford
- Kris Drosche
- Lisa Weir

- Ed.D Superintendent of Schools
- Ed.D Assoc. Superintendent of Talent and Operations
- **Director of Planning & Construction**
- Planning & Construction Project Manager
- Memorial High School Principal

Stantec Architects

- Jennifer Henrikson Principal Architect
- Tracy Eich **Principal - Architect**
- Mark Jackson Senior Project Manager – Architect
- Jon Pippert Senior Project Architect – Architect

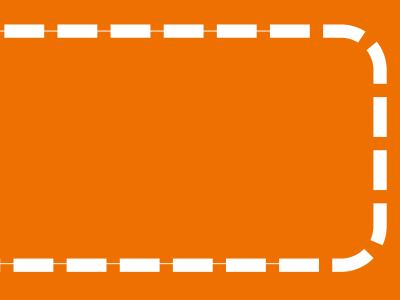
Project Advisory Team (PAT)

MHS Community/Faculty/Student Members (20+ person group)

Agenda: PAT Meeting #3

5 mins:	1. Welcome & Introductions + Overview PAT Charge PAT Process + Objectives/Goals Project Scope Project Schedule
5 mins:	2. PAT Meeting #2: Recap Meeting Highlights and PAT Input Feedback
60 mins:	 3. MHS Schematic Design Updates Site Plan at the New Building Floor Plans with enlargements Renovation of old Cafeteria Historical Perspective of MHS Exterior Vignettes
5 mins:	4. Closing Remarks

Wrap-up / Next Steps



Welcome + Meeting Overview

MHS Project Advisory Team (PAT) - Charge

OVERVIEW

A Project Advisory Team (PAT) will be chartered for the planning of Phase I (Additions and Renovations) for **Memorial High School** under the school's project in the 2017 Bond Program.

CHARGE

Each Project Advisory Team (PAT) member is charged with **providing input into planning and** design development of Phase I (Additions and Renovations) for Memorial High School.

The PAT will meet in a series of meetings from initial planning through design to the start of construction.

The PAT will work collaboratively and cooperatively with the architect and SBISD Project Manager to conceptualize, develop and refine the project's goals and design.

The PAT will reach a proposed recommendation through consensus.

The PAT will **advise on recommendations** regarding the planning and development of the Phase I (Additions and Renovations) for Memorial High School.

PAT Charge



Welcome + Meeting Overview

MHS Project Advisory Team (PAT) - Charge

CHARGE (continued)

These <u>recommendations will be presented</u> by the project's architects:

- 1) to the **Superintendent of Schools**, and based on approval from the Superintendent,
- 2) to the **Board of Trustees** for their approval. All recommendations must be in alignment with the District's Educational Specifications and Design and Construction Standards.

The Board of Trustees may act upon the recommendations developed with PAT input by approving, amending, altering or not approving all or any part of the recommendations.

Areas of focus from which the PAT should refrain include recommendations regarding school programs, policies and procedures, boundaries of district facilities, instructional arrangements and/or educational pedagogy decided upon and/or subject to District, State and Federal laws.

Project Advisory Teams are essential participants in the planning and design process. Team members are asked to agree to participate in various meetings throughout the process.

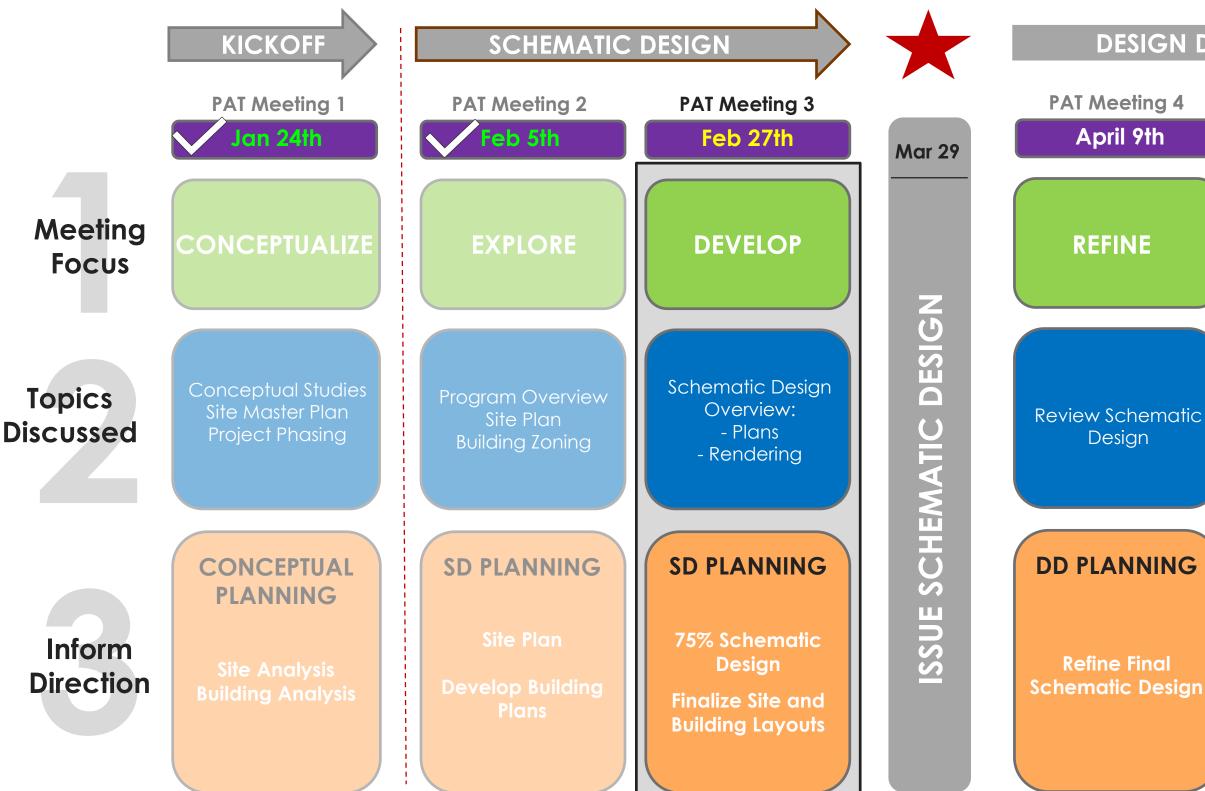
PAT Charge





Meeting Schedule

Memorial HS | PAT Engagement Process



PAT Process + Objectives/Goals



DESIGN DEVELOPMENT

PAT Meeting 5

May 14th



Design Development Overview: - Plans - Rendering

DD PLANNING

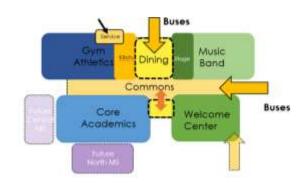
Final Design Discussion

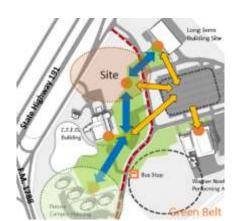


June 28



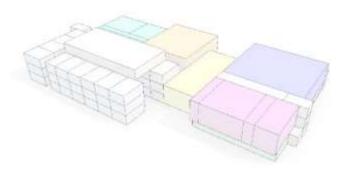






Concept-Ideas Diagrams



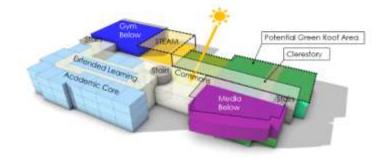


Concept-Floor Plans 3-D Blocking & Stacking

1

DEVELOP





Floor Plans – Furnishings Building Shape & Massing

Revit Plans Architectural Expression







Project Scope

- Additions and Renovations of Memorial High School Ο (Phase I of the Master Plan)
- On Site Construction and Transition Ο
- Estimated 140,000 SF new Multi-Level Building based on Ο **SBISD** High School Educational Specifications
- Demolition of Aqua Wing, White Wing, Green Wing, and Ο Science (Silver, Violet, Magenta) and Engineering Buildings
- Renovations to remaining spaces to include MEP upgrades, Ο security, life safety, and minor cosmetic improvements
- Site work to include: Tennis relocation, additional parking and Ο vehicle stacking, parent drop, bus loop, and one artificial turf field
- Estimated 2 year construction + Summer/Fall 2019 work Ο



Proposed Project Schedule

- Schematic Design Phase January March 2019
 - PAT Meeting #1: January 24, 2019 \checkmark
 - PAT Meeting #2: February 5, 2019
 - PAT Meeting #3: February 27, 2019



Design Development Phase April - June 2019

- PAT Meeting #4: April 9, 2019 0
- PAT Meeting #5: May 14, 2019 0
- **Construction Documents July November 2019**
- **Procurement & Permitting Dec 2019 March 2020**
 - GMP/Construction Contract recommendation to the Board of \bigcirc Trustees: March 2020

Construction Administration April 2020 – June 2022*

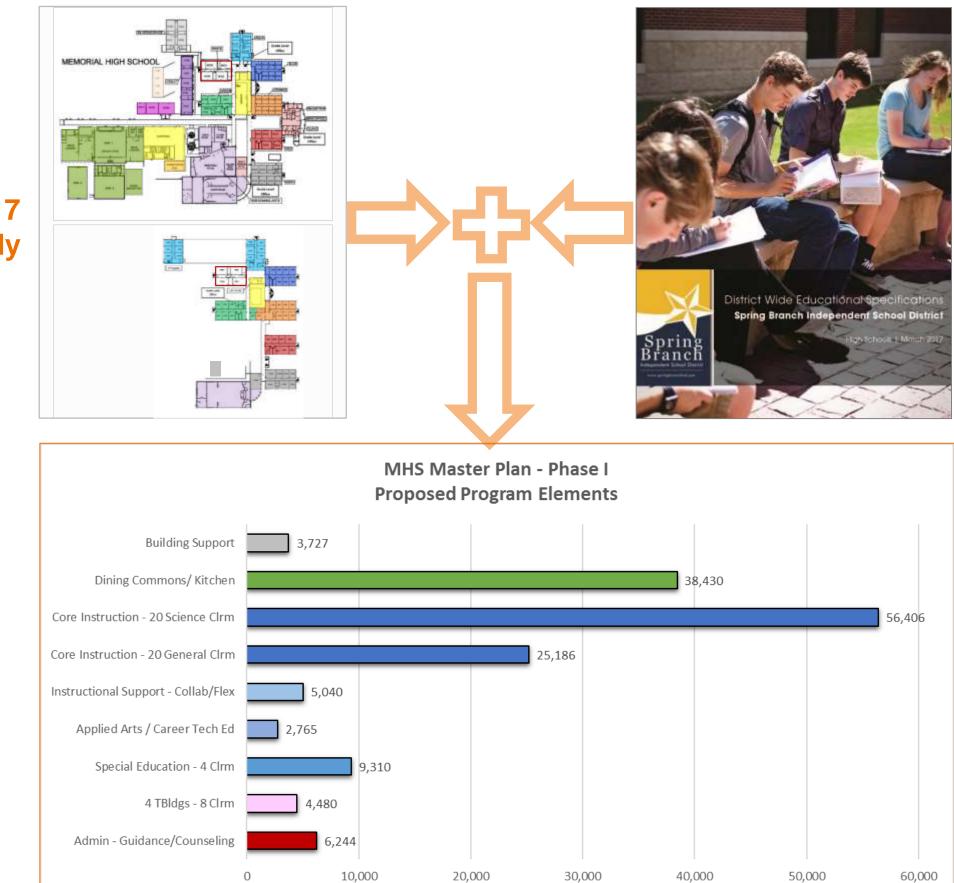
- *Summer/Fall 2019 \bigcirc
- Renovation work Summer #2 2020 (and 2021 if needed) Ο
- Complete New Building; approx. April 2022
- Demolition of Existing Buildings; approx. April June 2022 Ο



Agenda: PAT Meeting #3

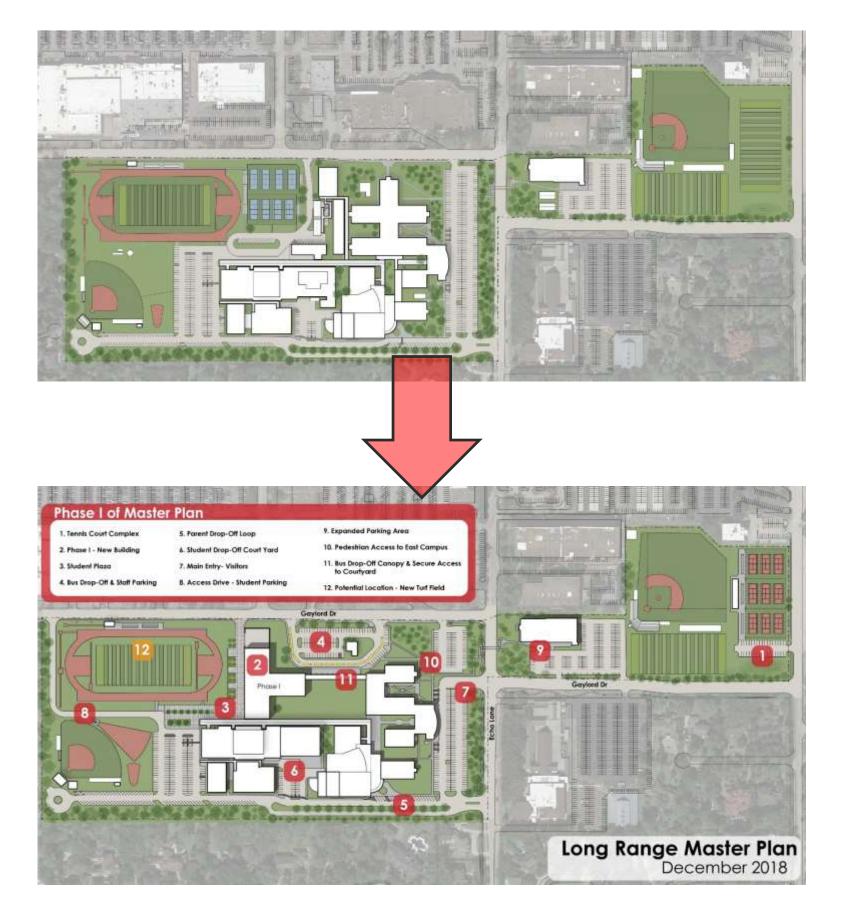
5 mins:	1.	Welcome & Introductions + Overview PAT Charge PAT Process + Objectives/Goals Project Scope Project Schedule
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Wrap-up / Next Steps



SBISD 2017 Capacity Study





1. Tennis

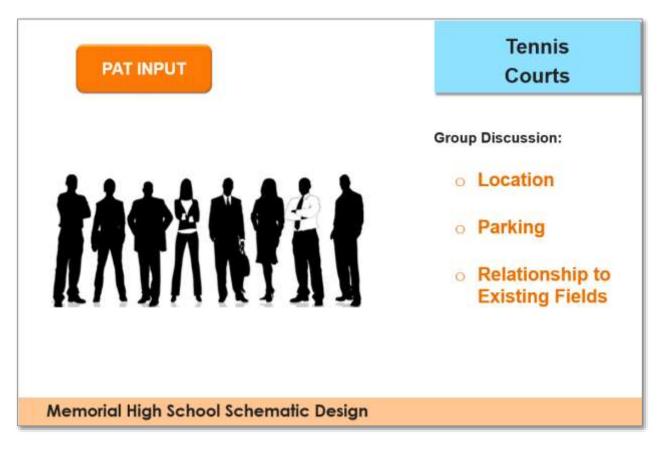
- 2. Floor Plans

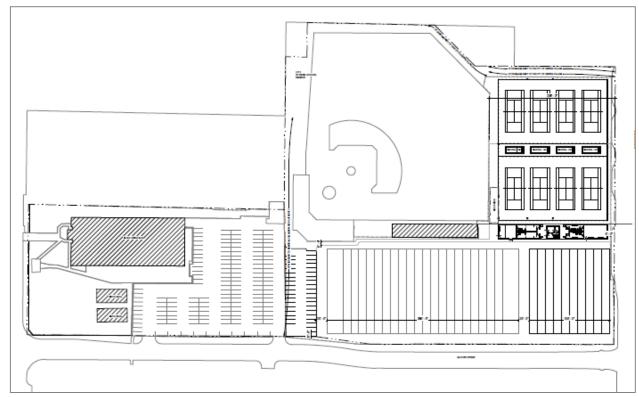
Overall Plan Layouts 3. Teaching and Learning • Variety of Learning Spaces and

Flexibility



• Relocate Tennis + New Support Space





Tennis Courts

POSITIVES

- Good location that frees up space for the new building
- Field House with Tennis
- Moving parking closer to existing lot
- N/S orientation keeps balls off the street •
- Least disruptive to the campus
- Connection to adjacent parking •
- Shaded seating
- Courts will have lights

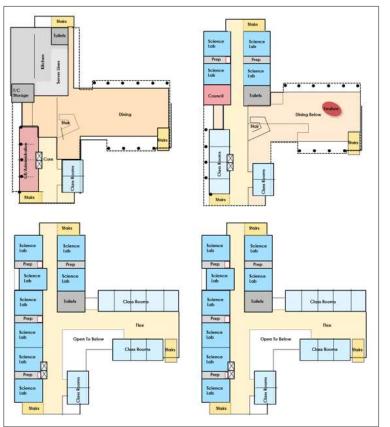
QUESTIONS / CONCERNS

- Spectators on the ends not the sides
- Secure fencing from Piney Point?
- Need public access from Piney Point
- Why public toilets? School functions only.
- Public toilets for all hours?
- No possibility to expand tennis Netting for balls to avoid the BB field

PAT Engagement / Input

PAT GROUP DISCUSSION





PAT Engagement / Input

Floor Plan Review

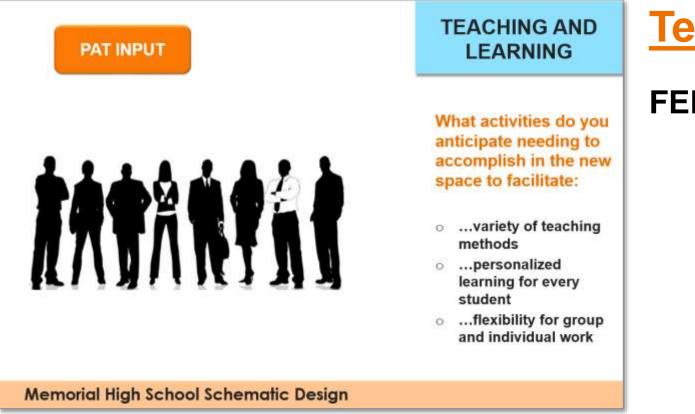
POSITIVES

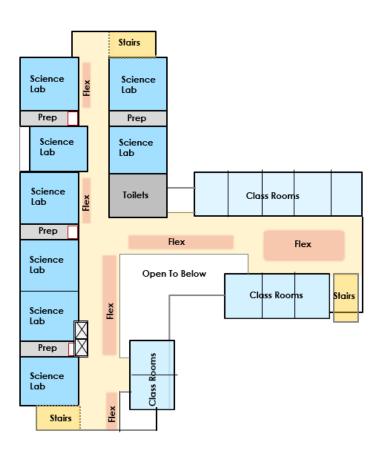
- Good floor plan, well thought out
- Set up dining like a college campus (Food options, Seating variety)
- Subject grouping (Science + M/SS/E)
- Flex spaces, walls, and furniture \bullet
- Outdoor connection from dining ٠
- Build "up" not "out"
- Exterior Light / Open Feel ۲

QUESTIONS / CONCERNS

- Noise from Cafeteria to 2nd floor
- Safety (Glass, Stairs with heavy books)
- Balcony safety & multiple floors
- Time to go up/down the stairs
- Noise from flex spaces (testing) ullet
- Food smells and science lab chemical (separation)
- Flex spaces will never be used?
- Large enough bathrooms for "Mega Lunch"
- **Classroom proportions**
- Make cafeteria lines long enough

PAT GROUP DISCUSSION





Teaching and Learning

FEEDBACK

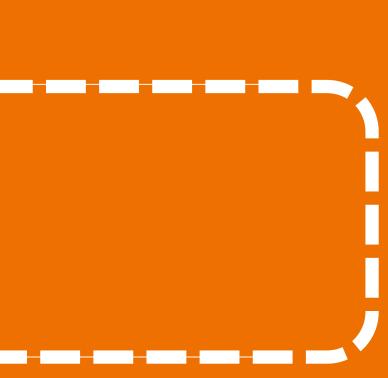
- Flexibility is critical (furniture, wall surfaces)
- Floor-to-ceiling writable surfaces
- No true "front" to a classroom ullet
- Flexible technology (power/data) •
- Comfort: dimming lights, temp controls lacksquare
- Operable walls?
- Paperless
- Extra power for charging devices ۲
- Project to any wall surface
- Large open classrooms for multiple activities
- Will flex areas be used or be disruptive?
- Need adequate teacher storage •
- Small group personal learning lacksquare

PAT Engagement / Input

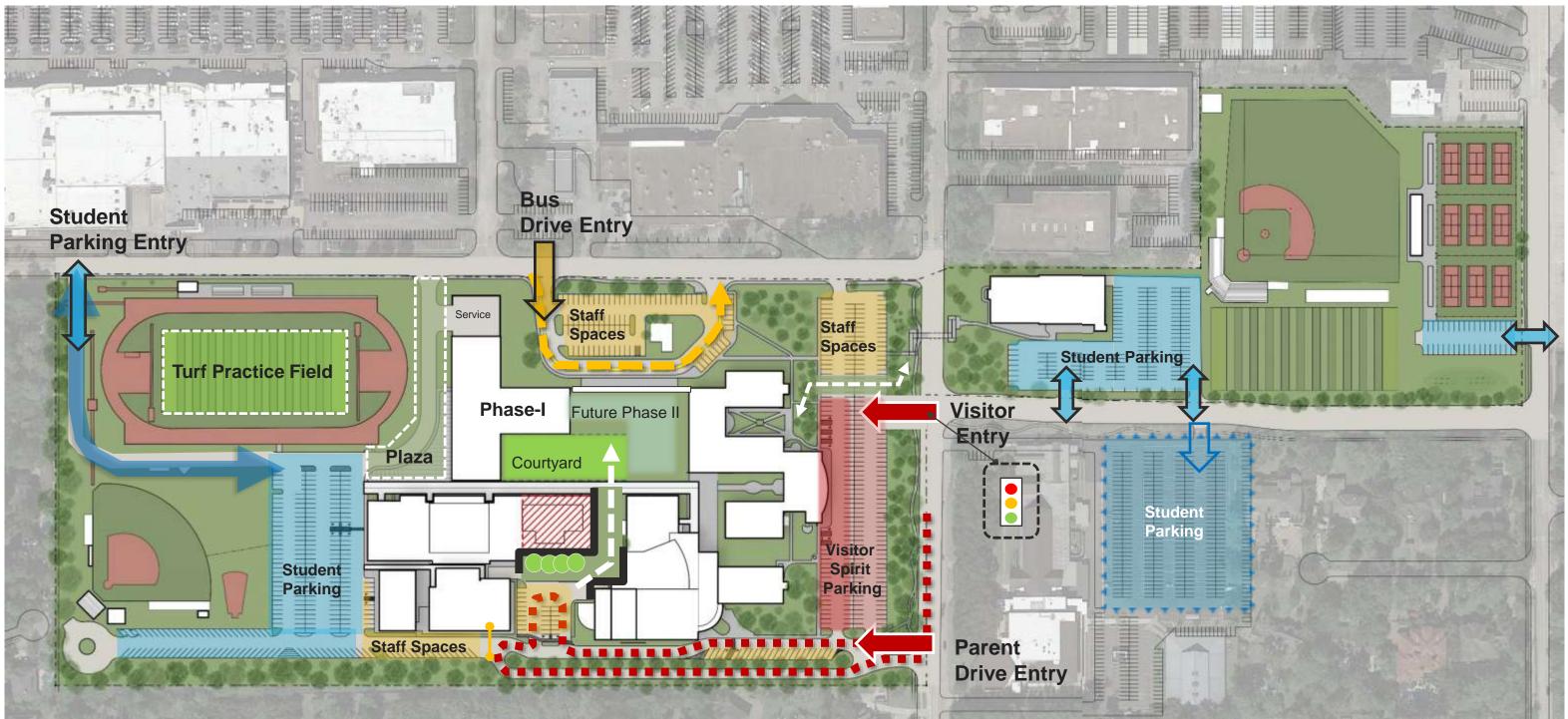
PAT GROUP DISCUSSION

Agenda: PAT Meeting #3

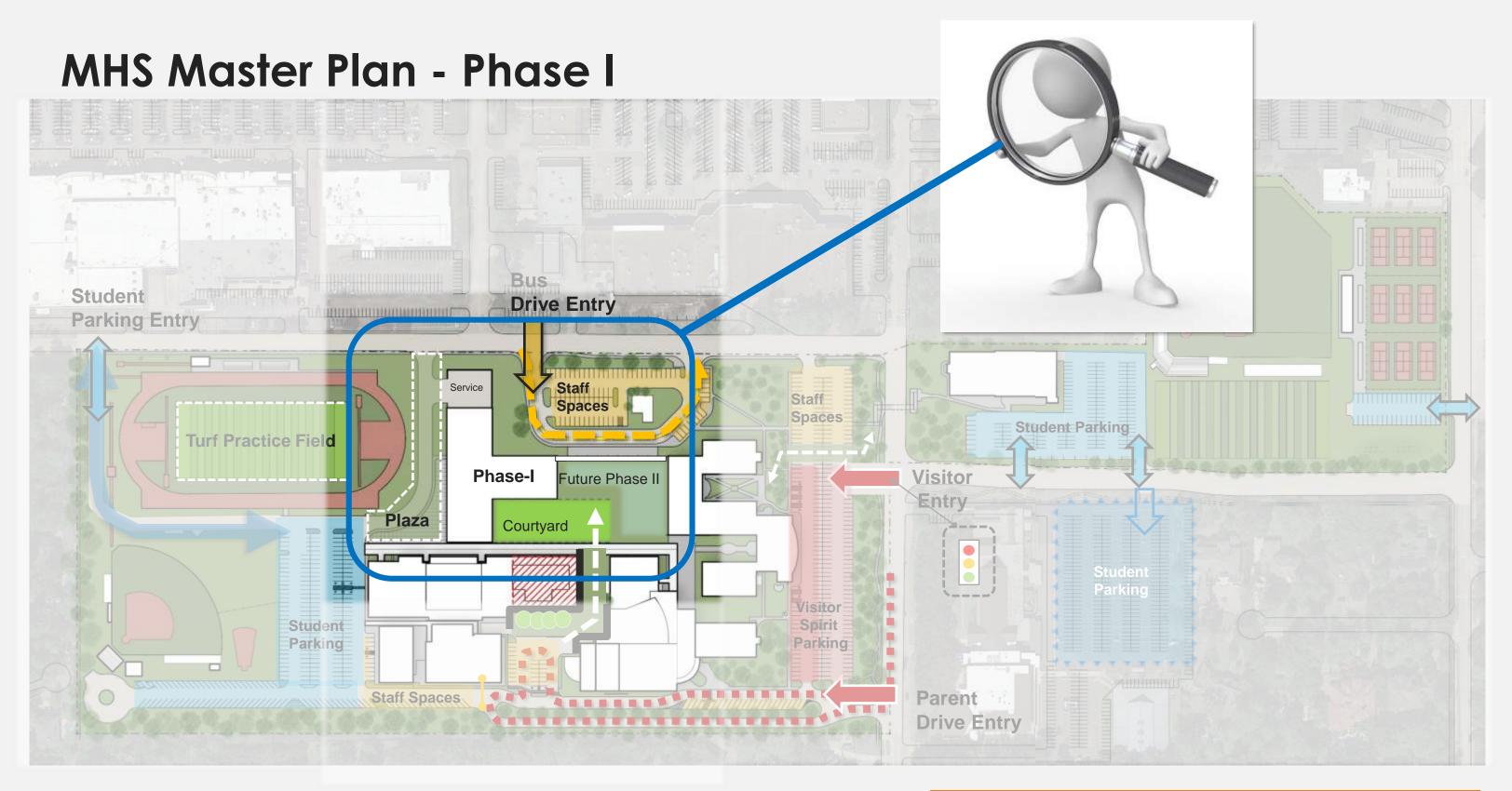
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MHS Master Plan - Phase I

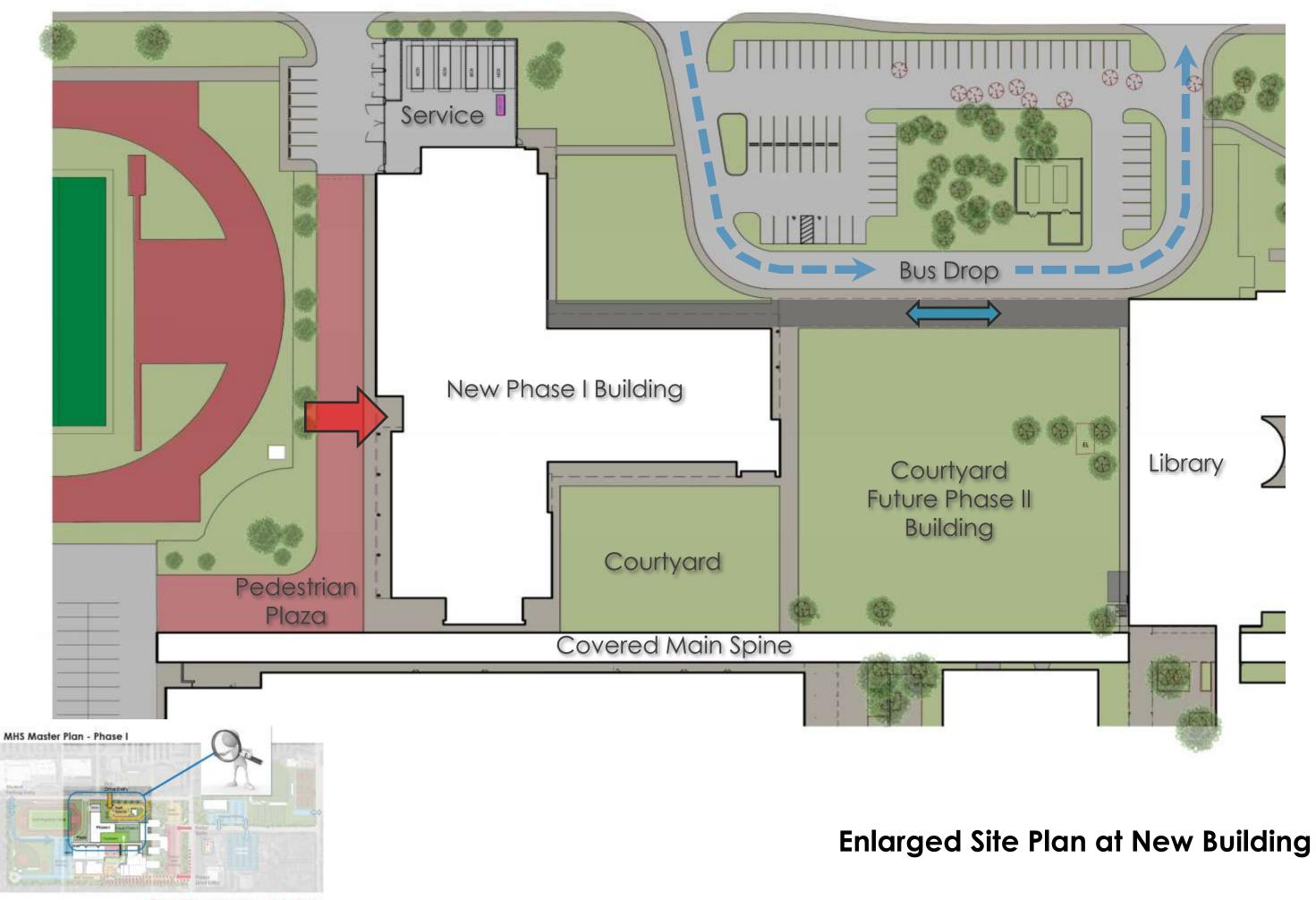


Phase I: Completed Condition / Access Points





Phase I: NEW CONSTRUCTION

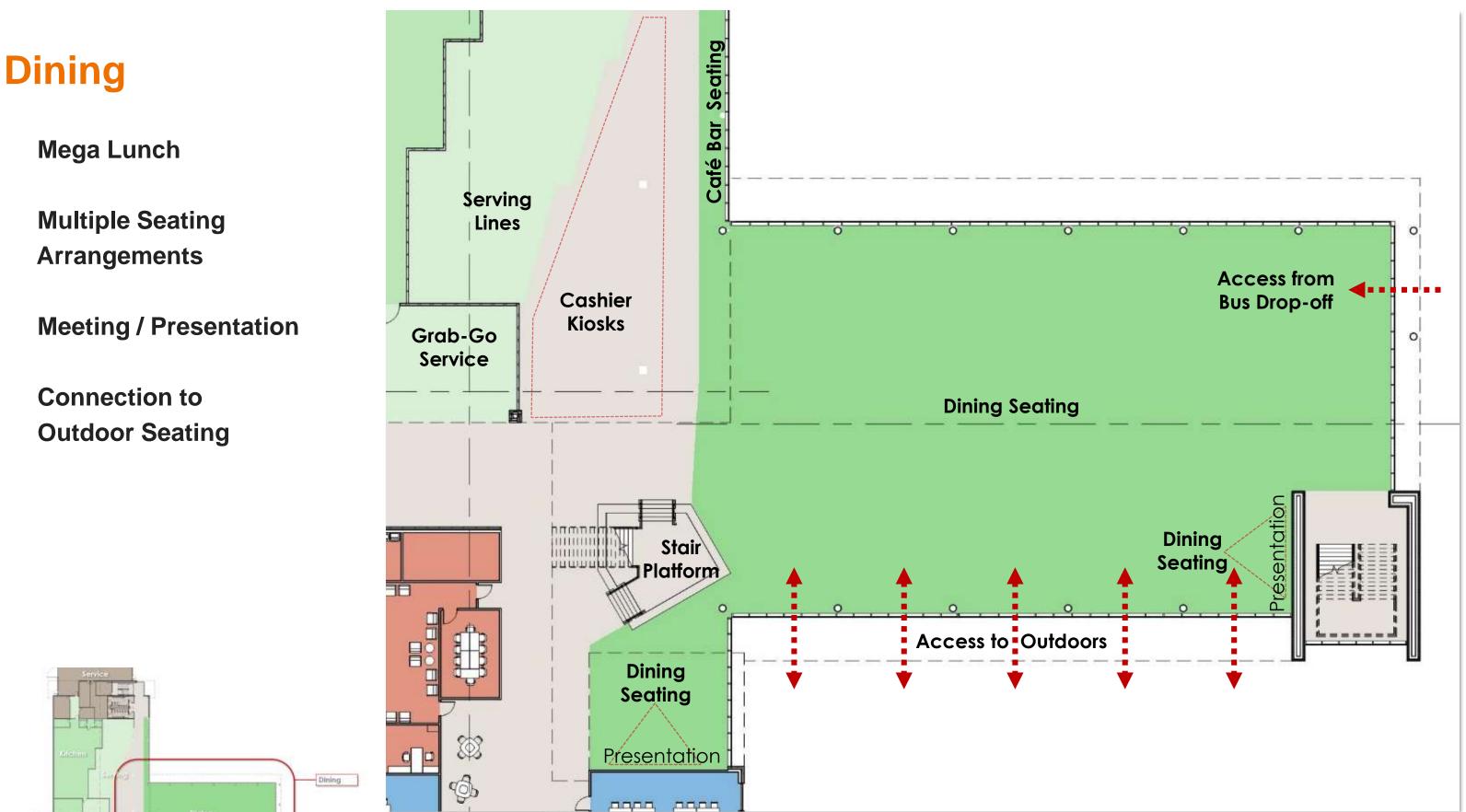


Phase I: Completed Condition / Access Points



Level 1 Floor Plan









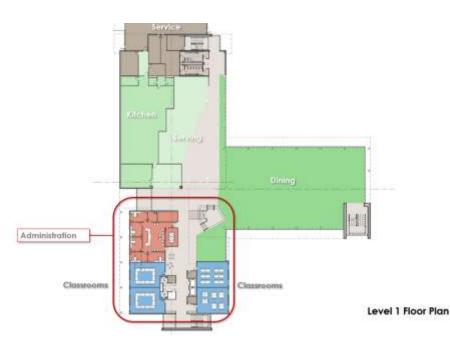
Level 1 Floor Plan

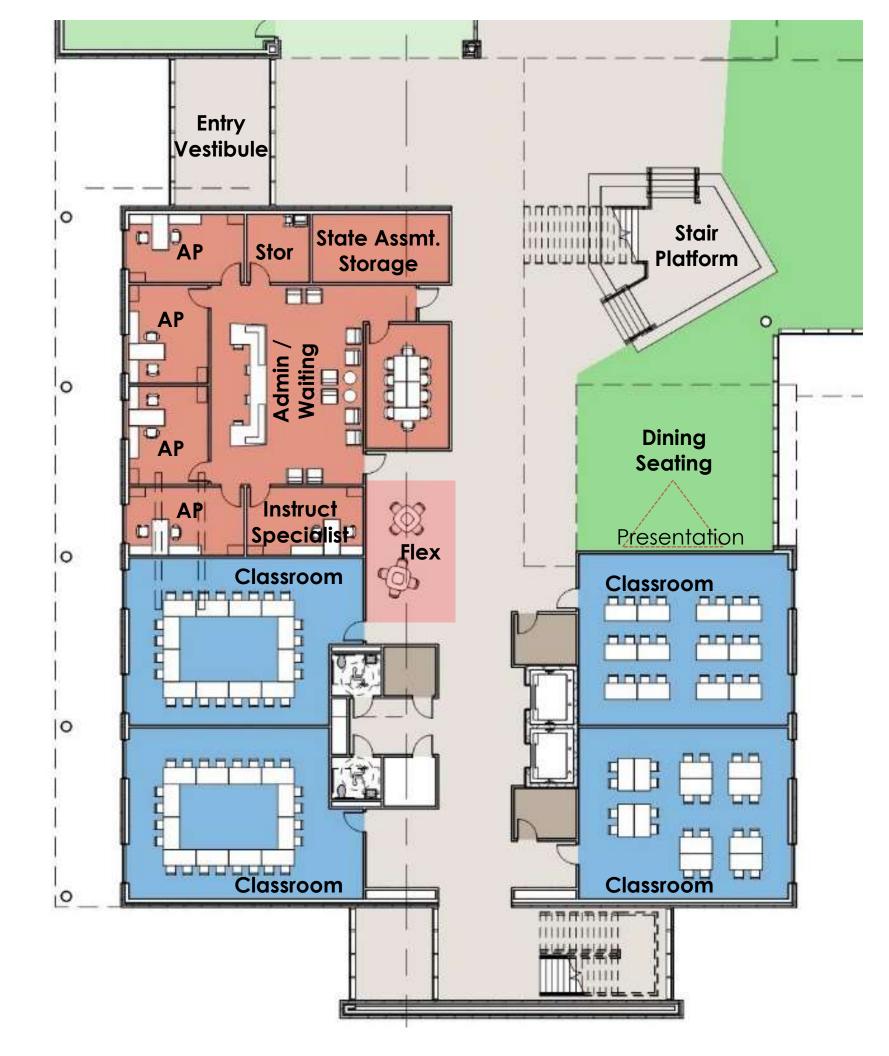
Administration and Learning Spaces

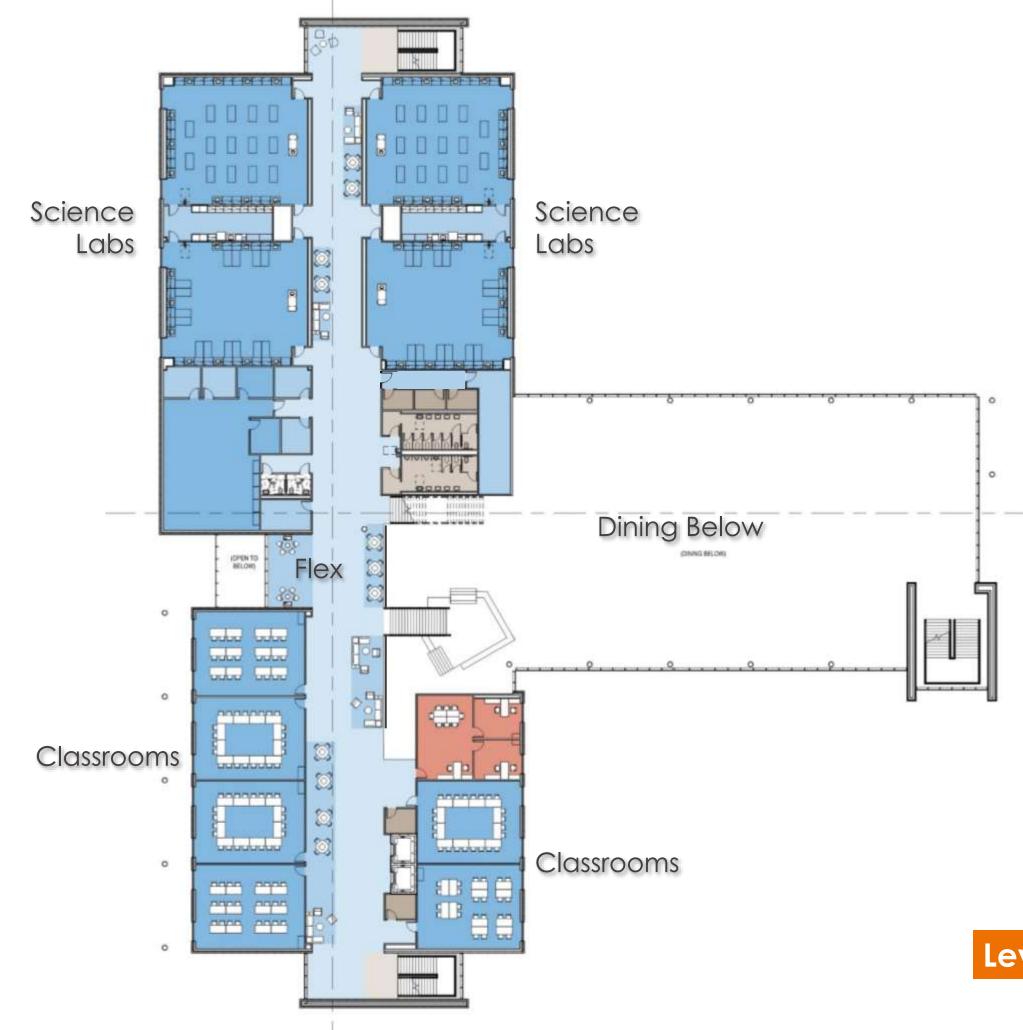
Centrally located at Student Entry

Views to the Student Plaza

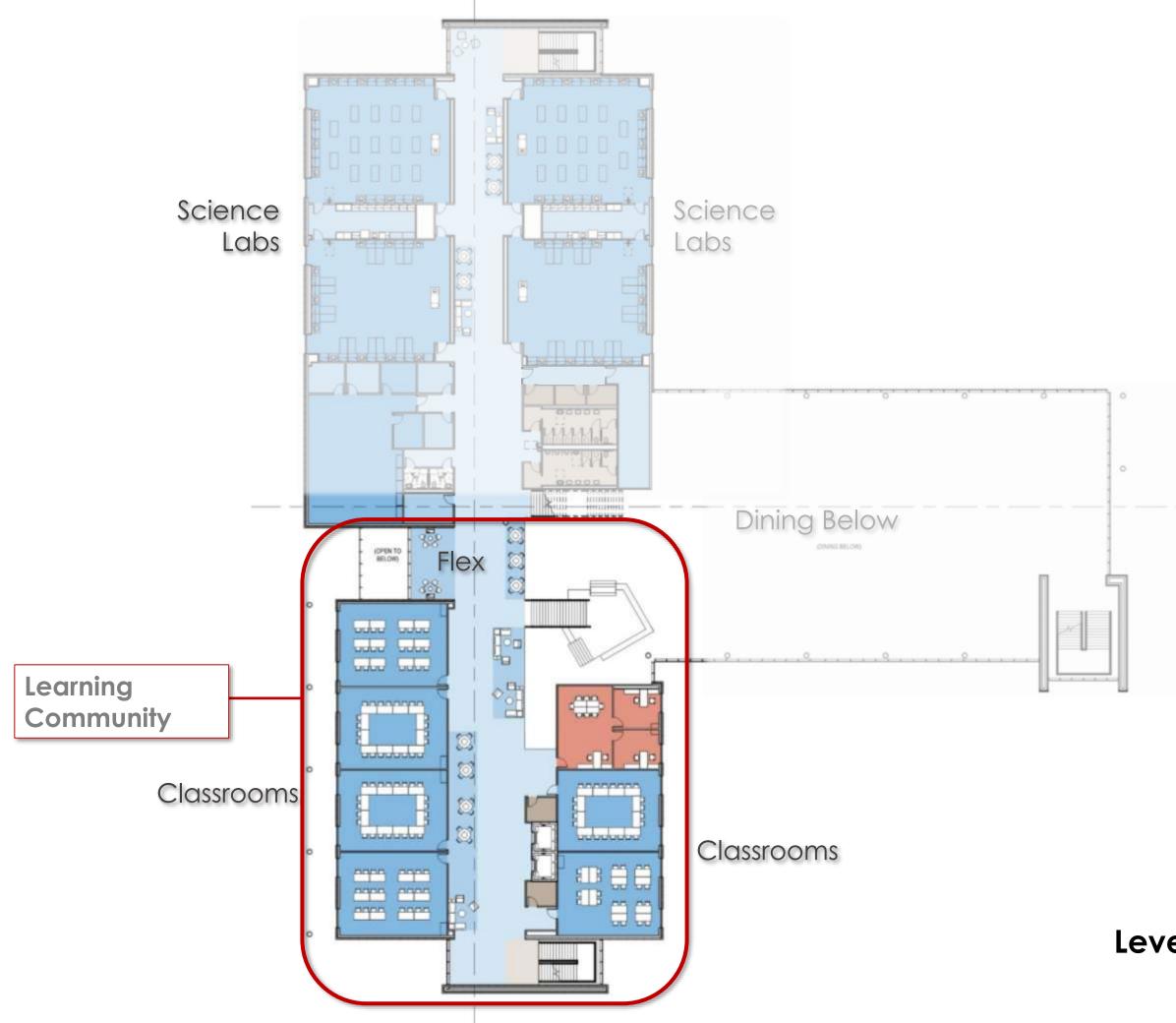
Welcoming Impression







Level 2 Floor Plan



Level 2 Floor Plan

Learning Community and Flex Spaces

Larger Classrooms than existing

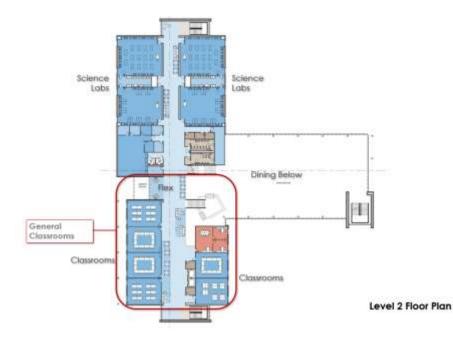
Direct connection/view to Small Flex areas

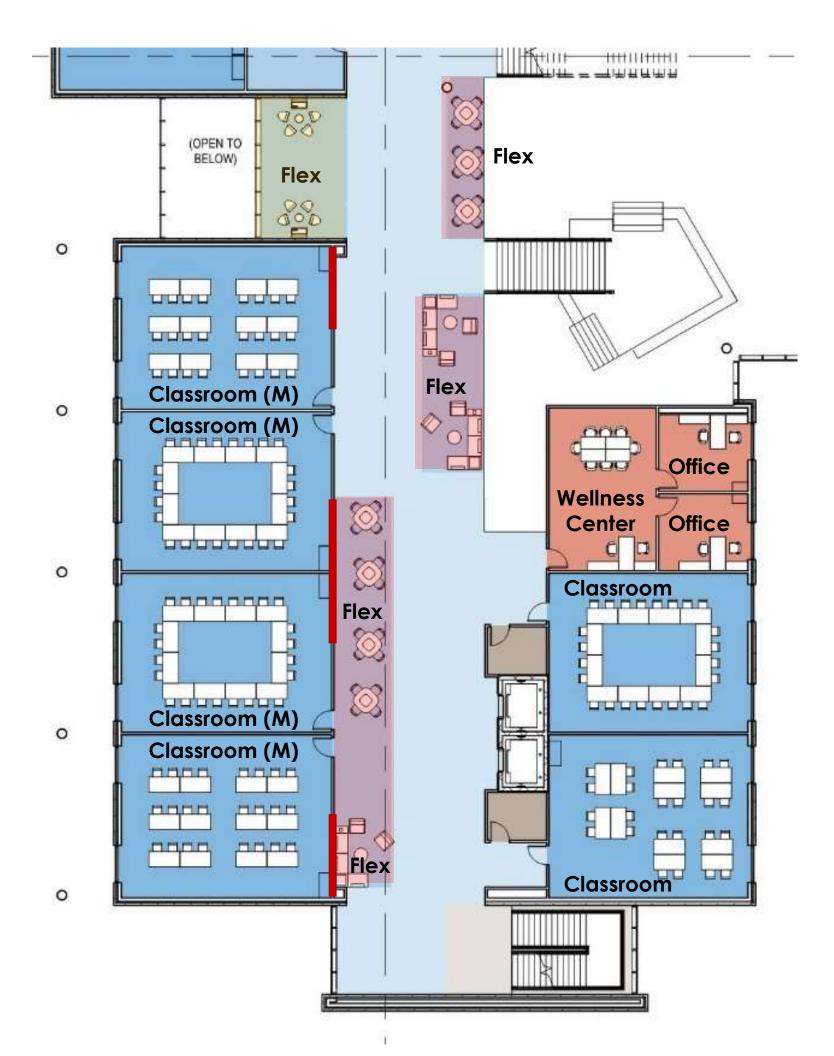
Wide circulation around Flex

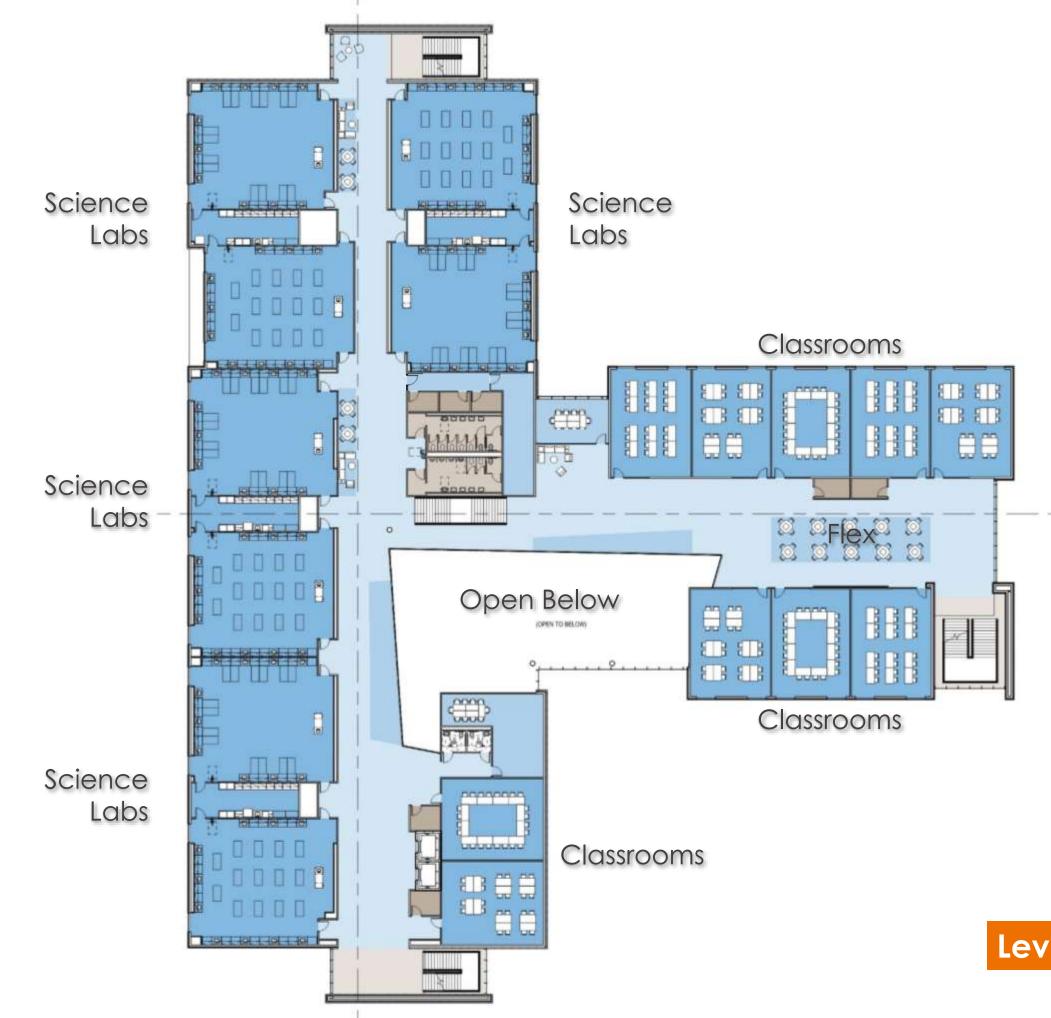
Connection to Dining below

Connection to daylight & views

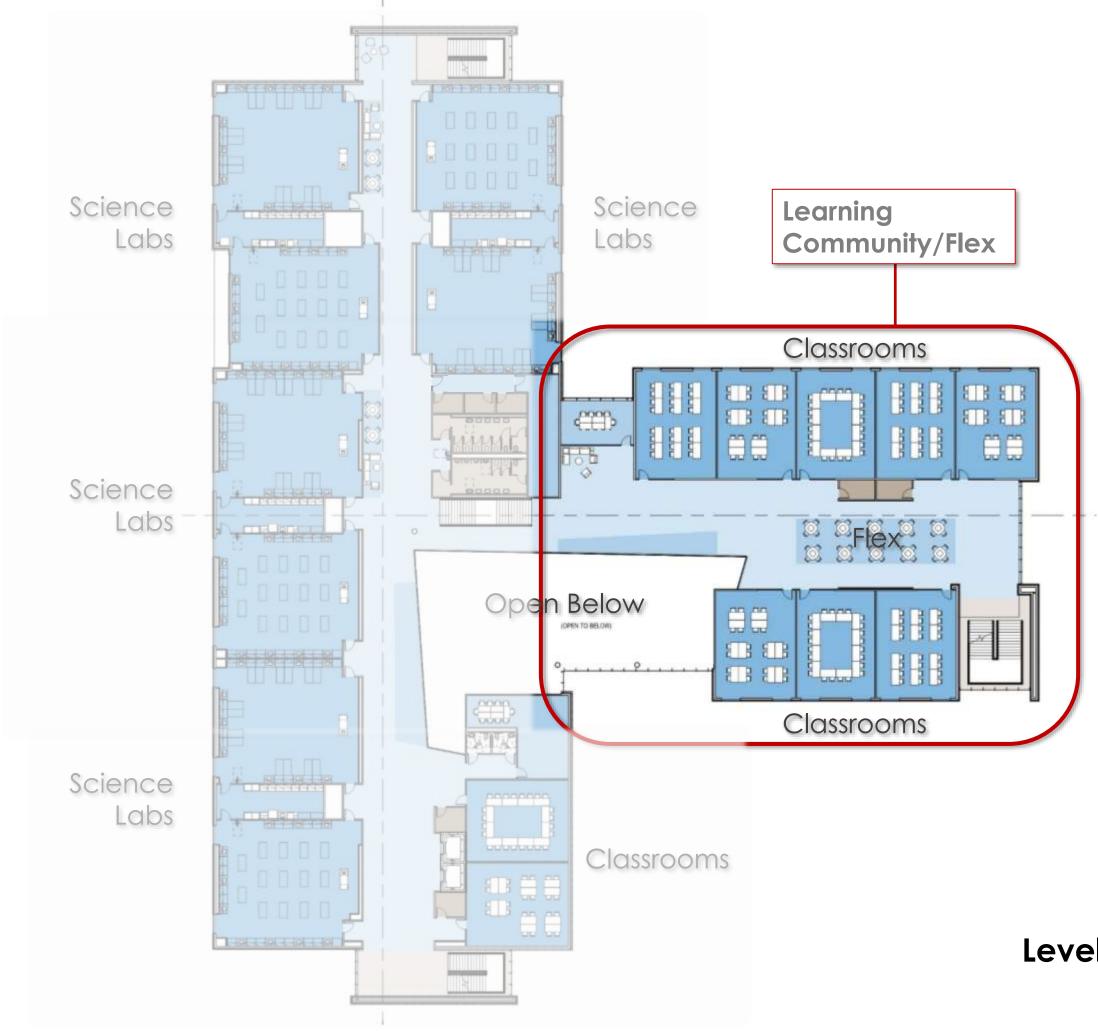
No long narrow corridors







Level 3 Floor Plan



Level 3 Floor Plan

Learning Community and Flex Spaces

Larger Classrooms than existing

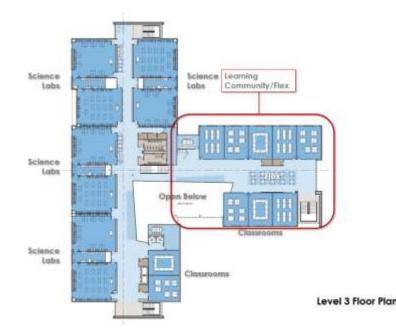
Large Group Flex + Small Flex

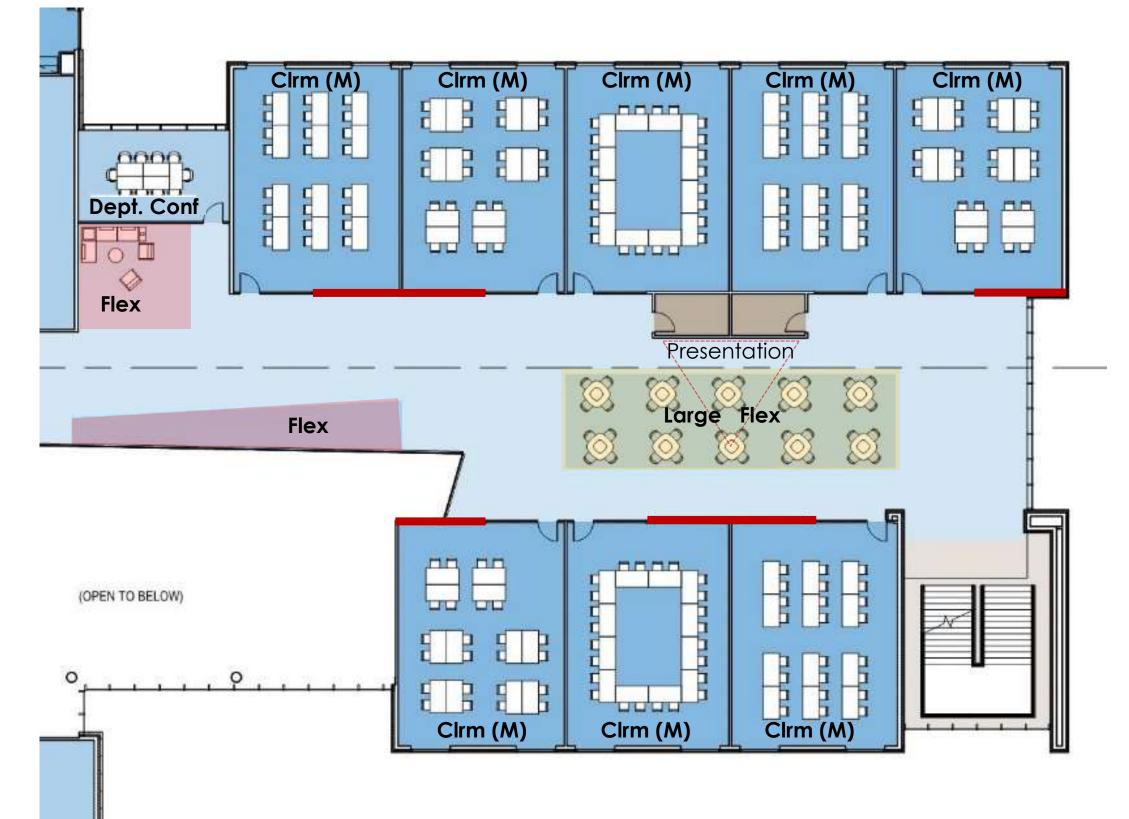
Wide circulation around Flex

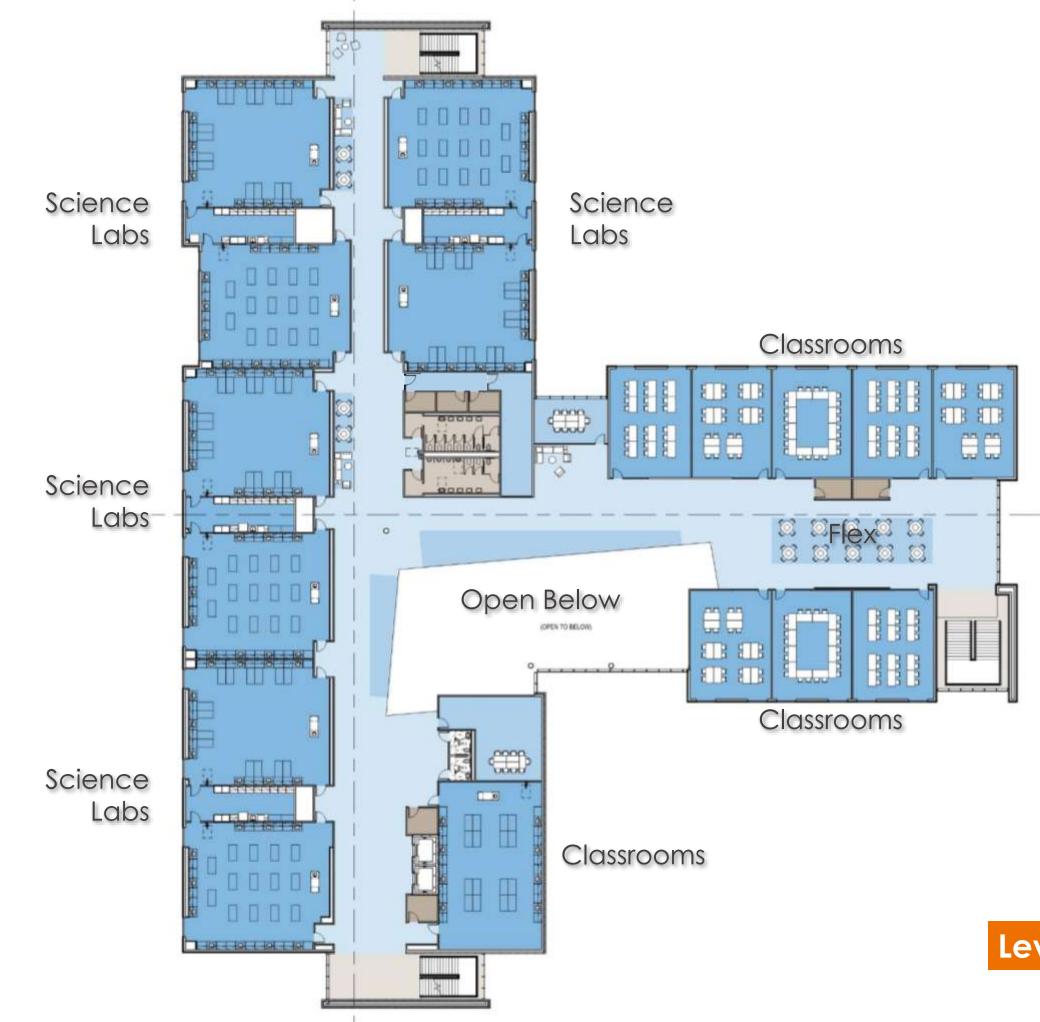
Connection to Dining below

Connection to daylight & views

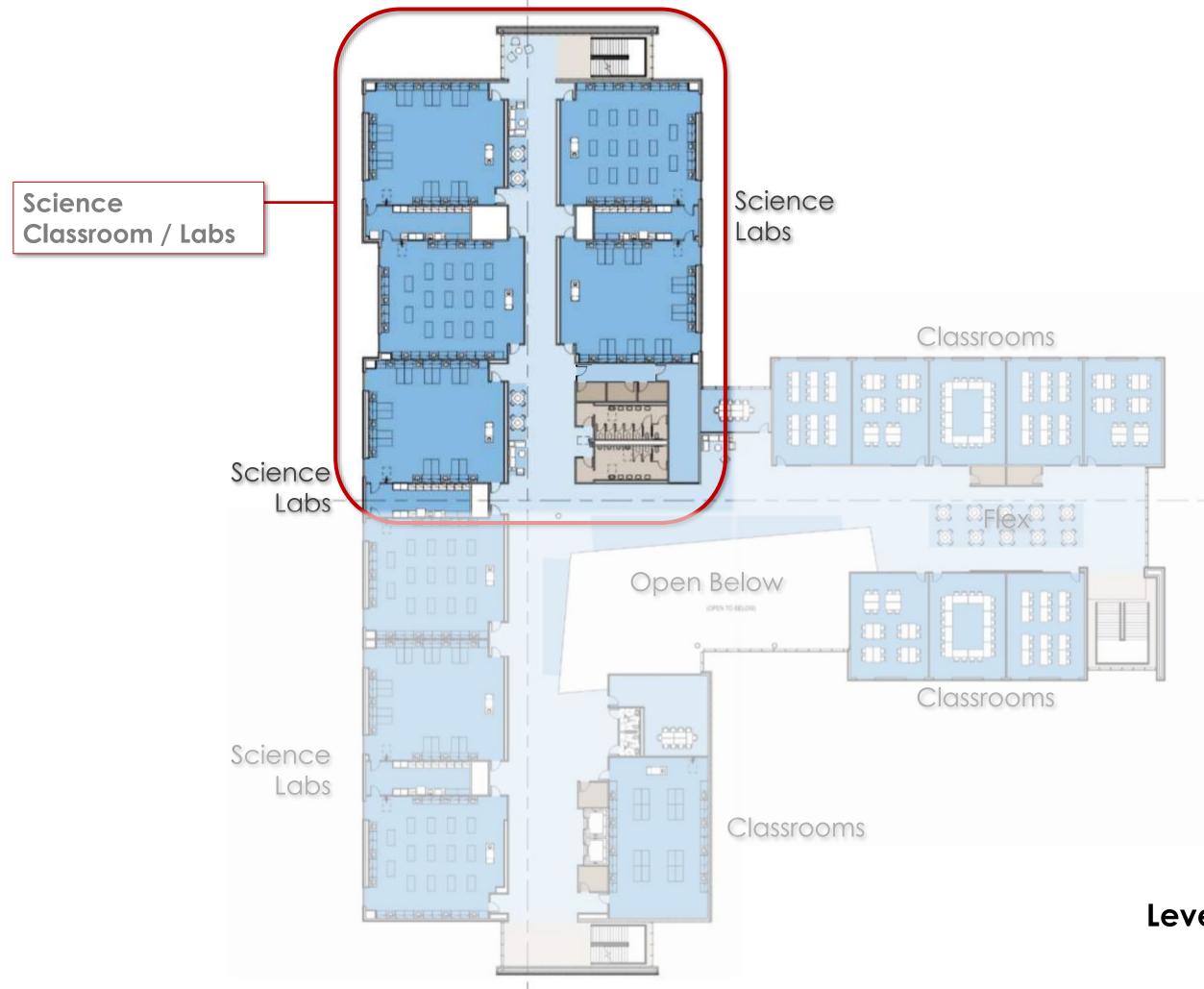
No long narrow corridors







Level 4 Floor Plan



Level 4 Floor Plan

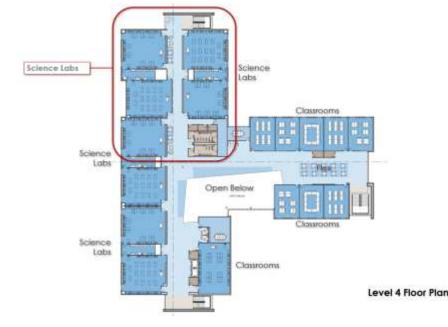
Science Classroom/Labs and Flex Spaces

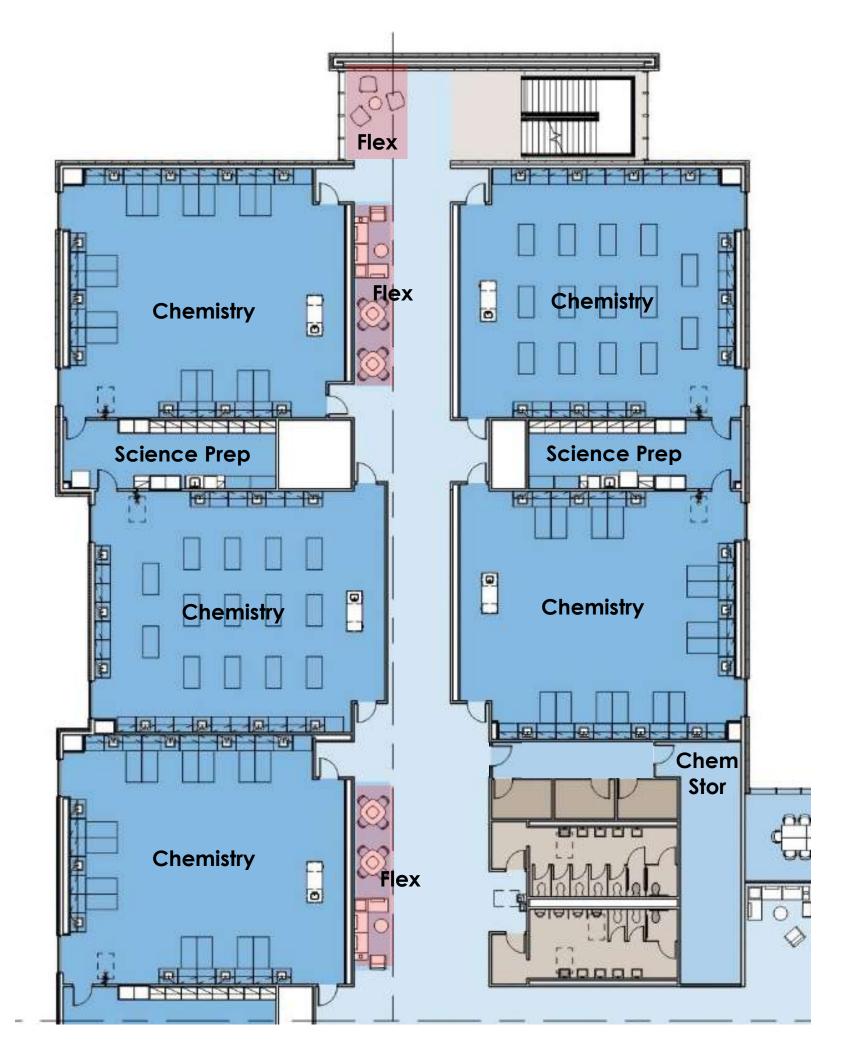
Easy access to Small Group Flex

Protected sunlight exposure from the west

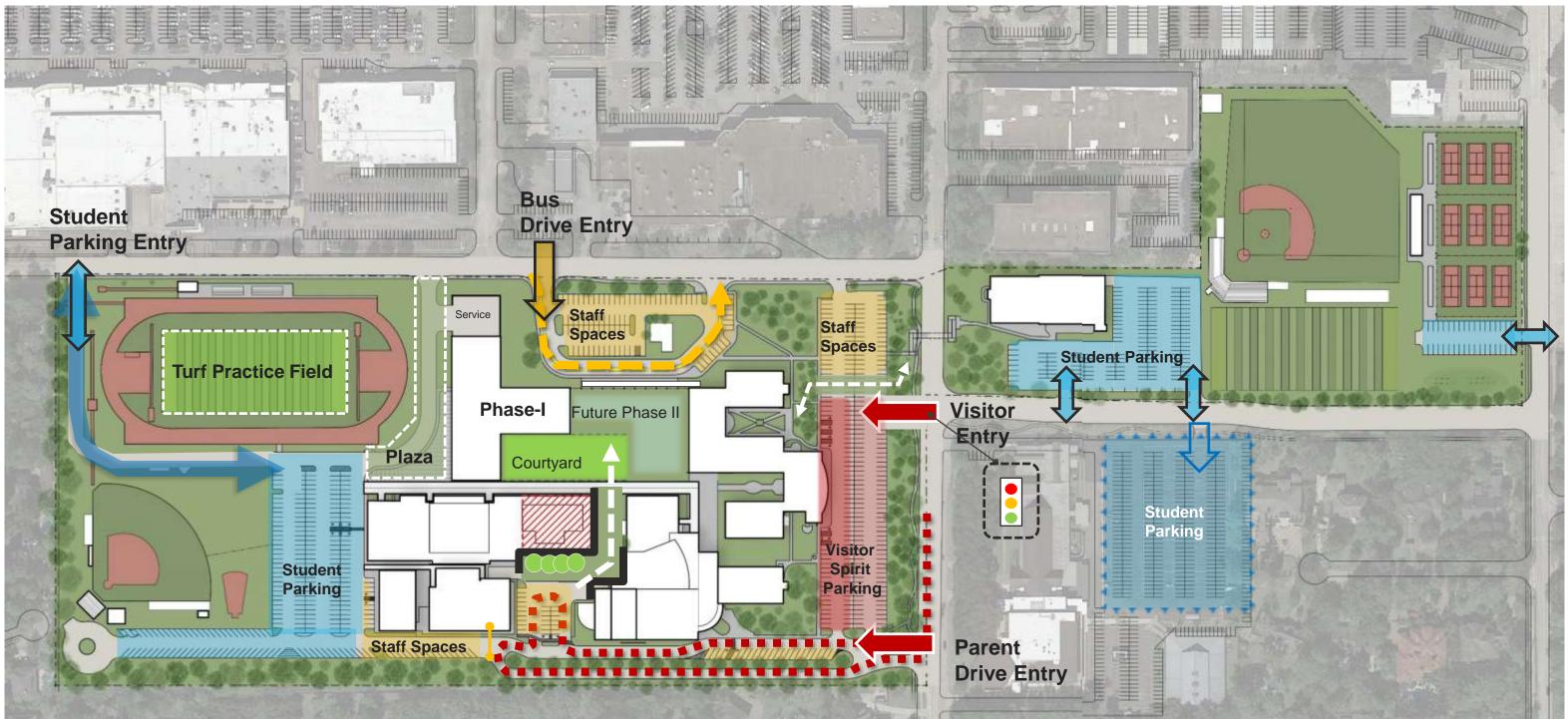
Large Classroom / Lab spaces for different seating arrangement

Shared Prep Rooms (2 Lab: 1 Prep)

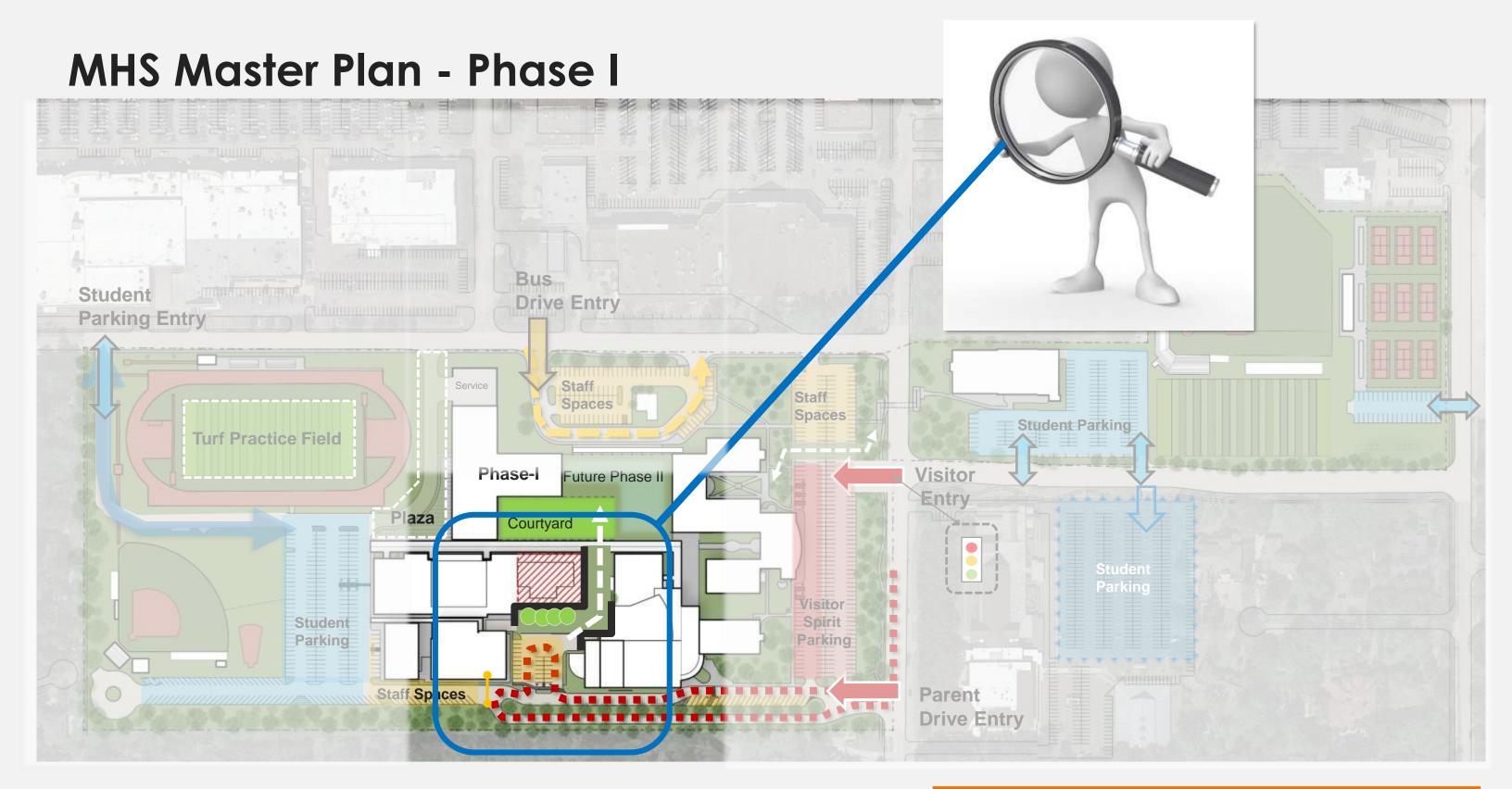




MHS Master Plan - Phase I



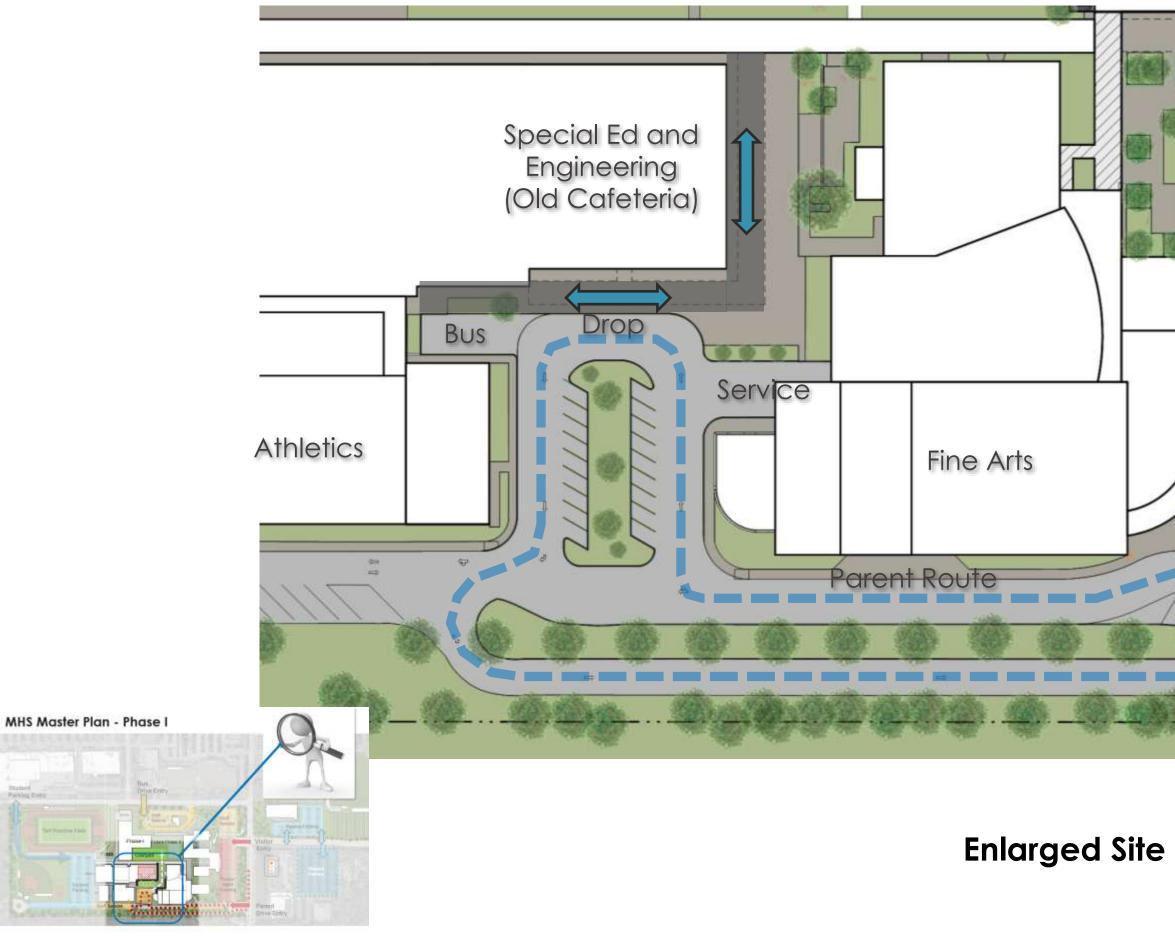
Phase I: Completed Condition / Access Points



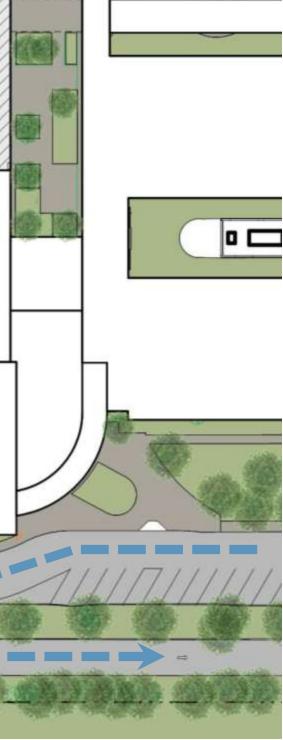


Phase I: RENOVATED SPACE

New Courtyard



Enlarged Site Plan at Parent Drop

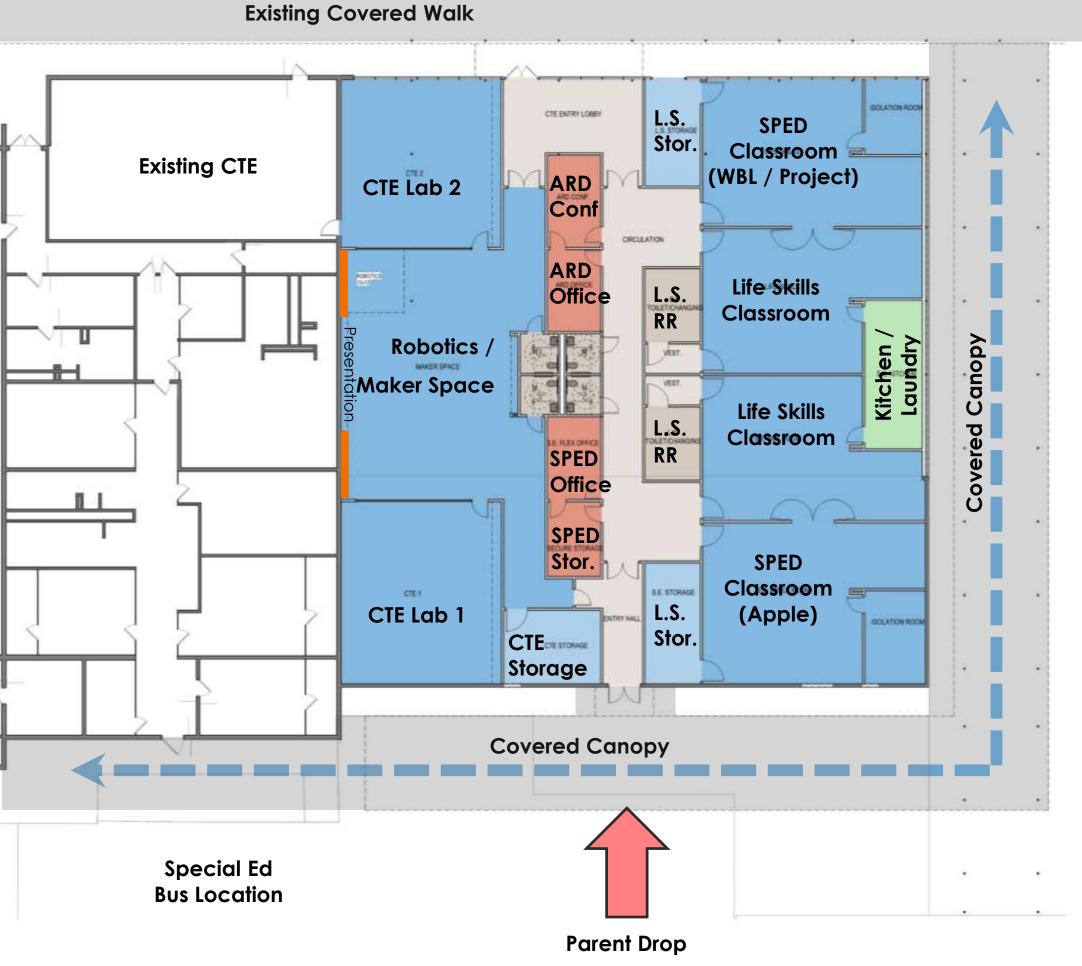


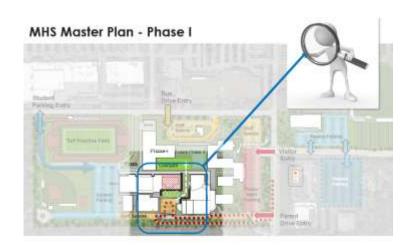
Special Education Engineering Labs

Renovation of Existing Space (Old Cafeteria / Kitchen)

Easy connection to Drop-off (Parent Car + Special Ed. Bus)

Separation between programs (Engineering + Special Education)

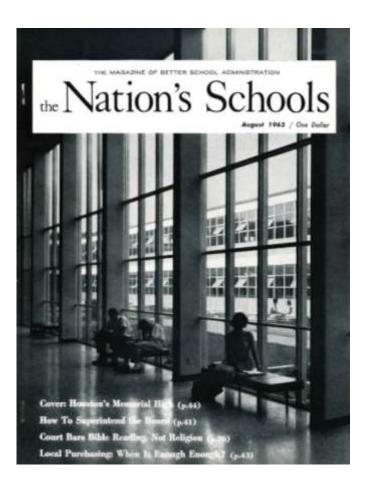




Memorial High School

The Nation's Schools August 1963 Issue

- **Educational Planning Innovation** •
- Meet the needs of the Future
- Small College Feeling •
- Convertability (walls) •
- **Open / Spacious**
- Orientation for Sun angles



Planned for traditional learning patterns Memorial High School in Houston is also ready to house expected educational changes

They Designed the School Traditionally -

The Nation's School of the Month / August 1963

WHEN Spring Branch Inde-pendent School District in n got ready to build its new high school, the community recized that innovations in educaplanning would affect the school's design. The 70,000 populaments in its school system - except on an experimental basis - bot it wanted to anticipate them in its building program.

This objective was met in the design of Memorial Senior High mate 3000. School, the August Nation's School of the Month. Koetter and Tharp, Houston, were architects. After a year's use, Principal Jack Ballard says: "Certainly the school meets the needs of our present traditional curriculum; and it can meet the requirements of any foreseeable educational changes: team teaching, programed learning and other forms of individual study, organization and south and protected from the

schools' basis, and the blocking out of instruction by either method, subject, length of period, or room size or arrangement."

Located on a 32 acre site, Memorial Senior (see cover) was planned "without physical contion community, however, was not straint." Its 10 units create the atquite ready to accept these develop- mosphere of a small college - appropriate for a student body of which 95 per cent aspires to attend college. Opened in September 1962, its enrollment for the 1963 64 school year will approxi-

> Comprehended in the 10 building complex are: six two-story classroom wings; a two-story library; a 1200 seat auditorium (with adjoining band and choral rooms); the shops building, and a multifunction structure embracing the gymnasium (with physical education and team dressing rooms and coaches' offices), and the cafeteria with mack bar.

Classrooms are oriented north on either a departmental or 'small sun by wide roof overhangs. The

separation of the classroom wings allows the prevailing south-cast breeze to penetrate and ventilate the areas during hot weather. Breaking up the student body among six separate buildings also helped "preserve a feeling of according to Spring humanity; Branch Supt. H. M. Landrum.

Supt. Landrum said that planning at Memorial High sought to achieve "convertability," rather than "flexibility." The latter term, he stated, implies the ability to rearrange interior space instantaneously with operable space dividers, which he did not consider necessary at this time. Convertability was achieved by utilizing removable, rather than movable, interior partitions,

Except for the fire-resistant plaster on the columns, the partitions are dry wall construction: four half-inch gypsum boards laminated together to form twoinch panels

The dividers were kept free of utilities, lockers and such to perOpen design of modified campus plan of Memorial Senior High School gives site small-college atmosphere.

Glass-walled feyer (bottom) provides easy access from street to 1200 sent, oir-conditioned auditorius

But Conditionally

mit easy removal or relocation. With the room side face of the gypsum covered with factory-applied vinyl fabric, the panels, according to Supt. Landrum, are attractive and acoustically effective, yet so economical they can be torn out and relocated several

of movable partitions. Architect Gunter W. Koetter reports that the cost of the gyp-num partitions was less than that of a four-inch einder block wall of the same area, and that they keep out unwanted sound as effectively.

Supt. Landrum said both faculty and students are pleased with the architectural design of the building The only criticism, he indicates, is that the design is so open and spacious that complete air conditioning will be more expensive than it would have been for a more compact building; however, the spacious design of this school is the characteristic most frequently commended. (Please Turn to Page 46)



times for less than the initial cost



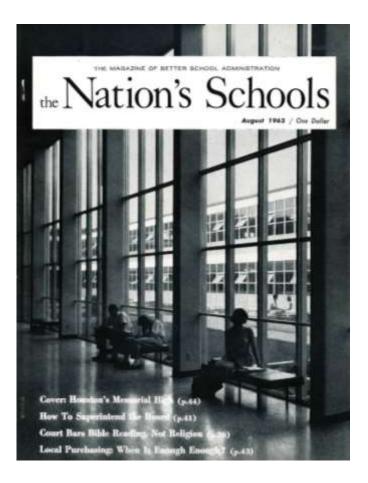
Superintendent: H. M. Landrum

<u>MHS 1963:</u> **Elegant Design Forward Thinking**

Memorial High School

The Nation's Schools August 1963 Issue

- **Outdoor Classrooms**
- Commons / Mall
- Outdoor Seating for dining
- Team Teaching •
- Movable walls for LGI
- Multiple Learning Space Sizes



Locker alcoves keep noise away from classroom areas. Walls of the locker-free corridors are demountable and can be relacated.

Why Memorial High School Is Outstanding

1. Each of the six separate, two-story classroom wings - curcently organized on a departmental (subject) basis - can function as anti-contained "little schools," with as many as 500 students in each, any time the instructional pattern is changed. 2. Major classrooms are group-

ed in a cluster around a centrally located mall and an air-conditioned two-story library. 3. Two "outdoor elassrooms" are provided by the mall and the

nons. The mall serves as a student campus in which exhibits and displays can be arranged. 4. The commons, partly roofed, also provides a sheltered outdoor, all-weather eating area, adjoining the cafetoria; a social gathering space; a study center, and oppormity for outdoor experiments. 5. The 768 sent cafeteria (with snack hur) lends itself to team

teaching, large group instruction, and some laboratory work. 6. To shield students from winter northerlies, the mall is glazed

at the north and south ends. 7. Around the snall, at both have been sized for future levels, walkways connect the conditioning of all classrooms.

acodemic facilities. Perpendicular to the mall is a ground-level walk that links the group activity areas (gymnasium, cafeteria and commons)

8, All corridor walls are demountable partitions that can be relocated (see adjoining story). Corridor space plus adjoining four classrooms can be converted into one large room for 120 students. or two rooms for 60 students, and four teachers.

9. Long corridors have been eliminated; internal cross considors are abort.

10. No student lockers are along the corridor walls. Lockers are grouped in clusters at the end of each wing. 11. Small teacher affices are lo-

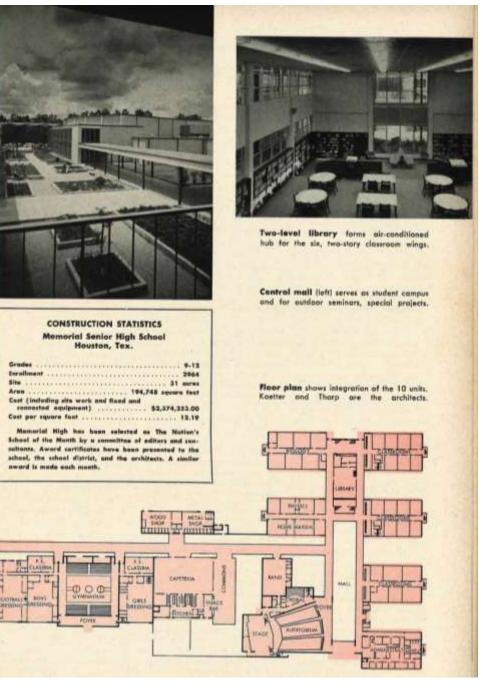
cuted in almost every wing. 12. Forty per cent of the buildiugs is air-conditioned - the library, administration offices, language laboratory, two teacher lounges, the caleteria, and the auditorium with adjoining band

and choral rooms. Convoctor units in each classroom and piping

(Continued From Page 45) One improvement, Supt. Lan-drum added, would be the use of power operated folding partitions in the auditorium; this would permit use of the space for large group instruction. The modified campus plan

emphasized utilization and economy. Incorporated in the general construction cost of \$2,112,152 was \$385,160 of electrical and mechanical work (including air conditioning completed or sized for future installation). Distributed among the 194,748 square feet of building area (figuring covered passageways at 50 per cent), this represents \$10.85 a square foot. After adding \$134,848 for site work, and \$127,253 for fixed and connected equipment, the total was \$2,374,253, or \$12.19 a square foot. The cost per teacher station (86 teachers) was reported

at \$27,608 (see figures, page 47), Spring Branch Independent School District, in which Mennrial Senior High is located, serves a large section of Houston located west of the metropolitan area, as well as parts of six suburban mu-nicipalities. Growth has been so rapid that a seventh classroom wing is under construction at Memorial Senior High School. .



<u>MHS 1963:</u> **Elegant Design Forward Thinking**

Served 2,964 Students

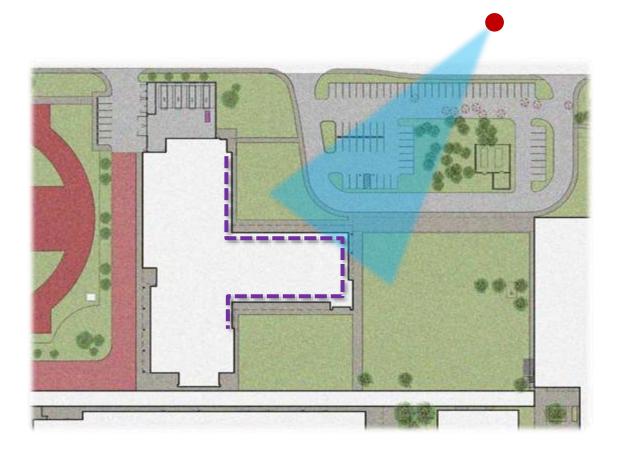
PAT #1 Architectural Expression

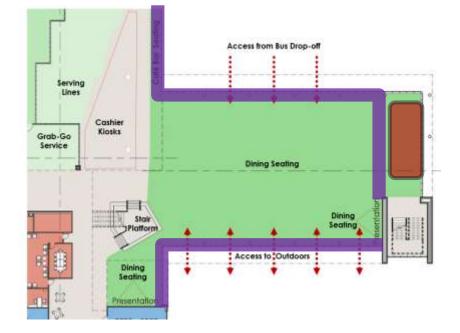
Campus-Community Modern-State of the ART Apple Store Firth Ave. NY Modern Inviting Welcoming High Performance Innovative Inviting Refreshing Beautiful Comfortable Secure College Feel Strong Connection to Out Doors Stands out-WOW Factor

Building Shape, Scale, Form and Massing

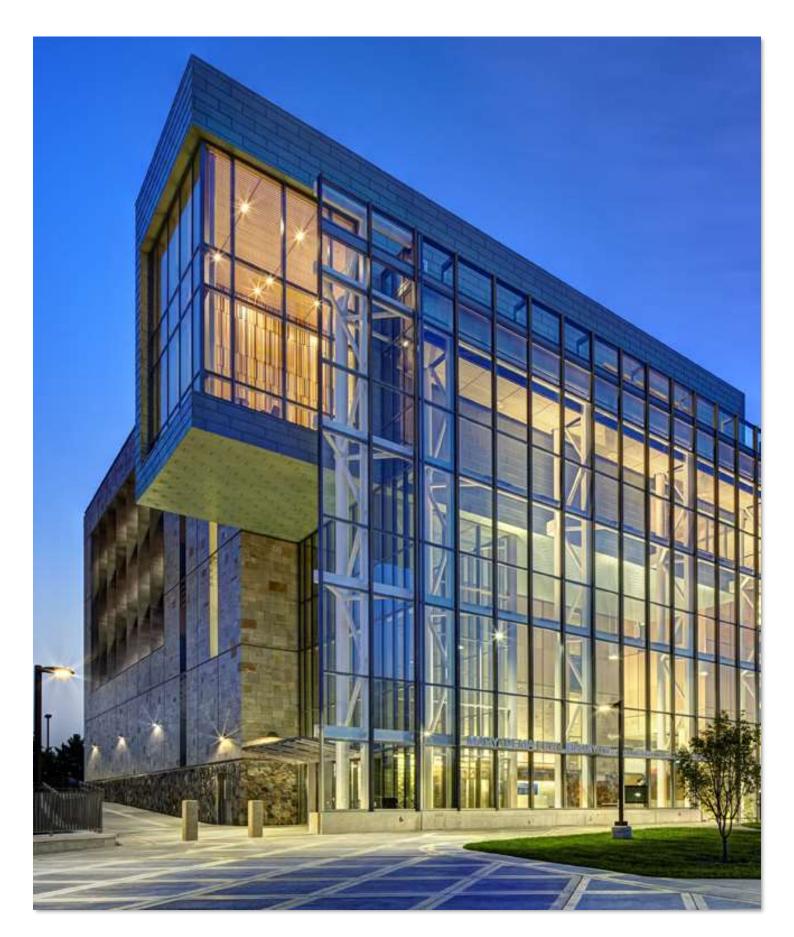
Building Materials and Finishes

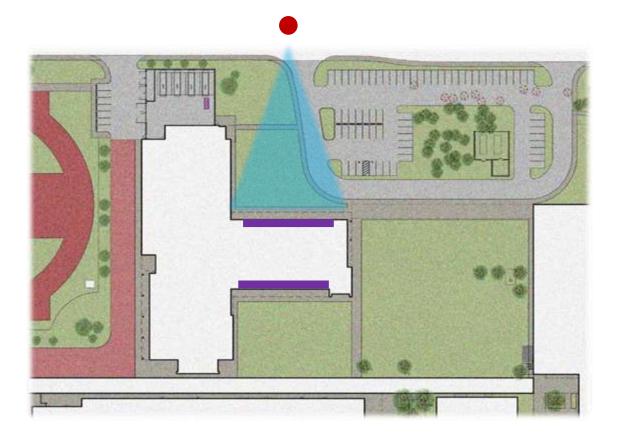
Highlight/Identify & Articulate The Entry and Special Programs Pattern Texture Color Sparkle

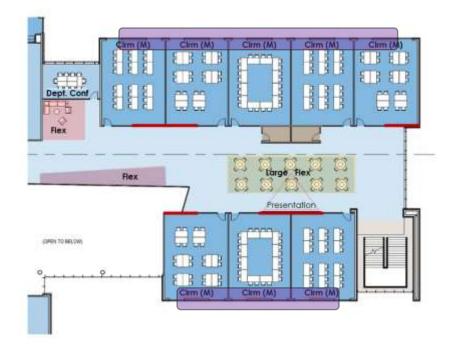




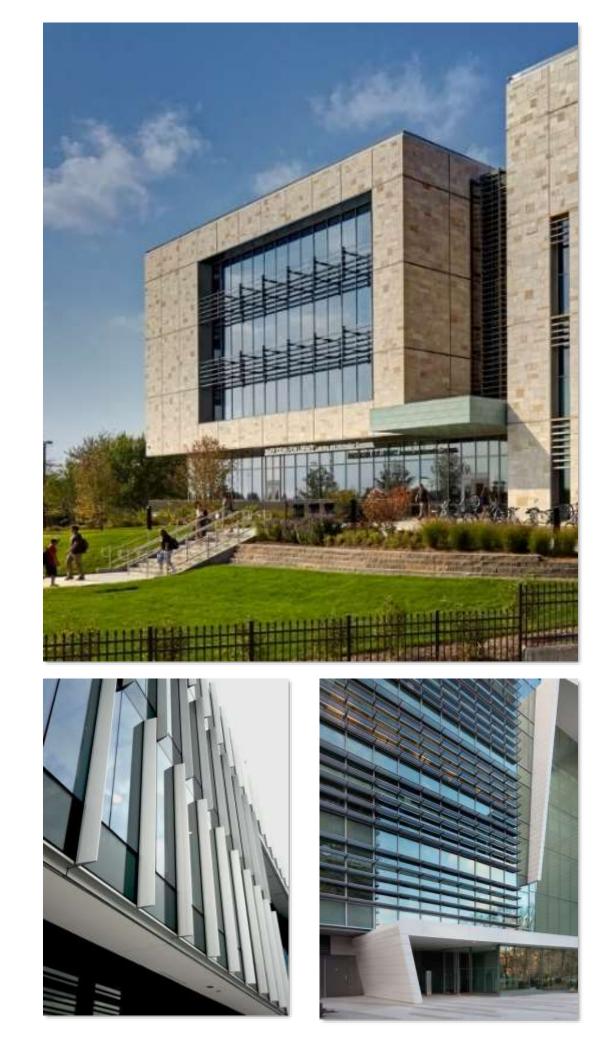
Dining Room - Transparency

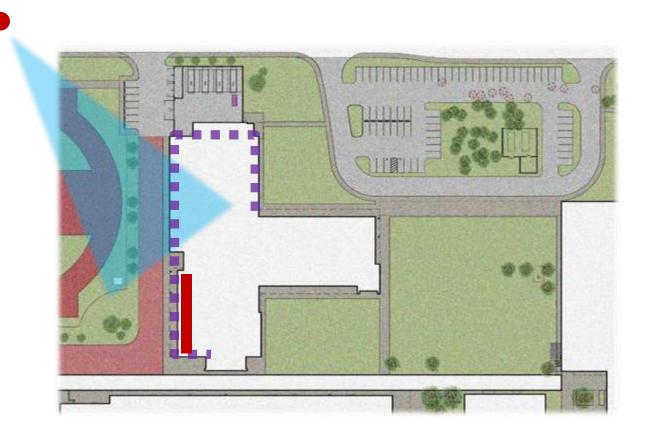






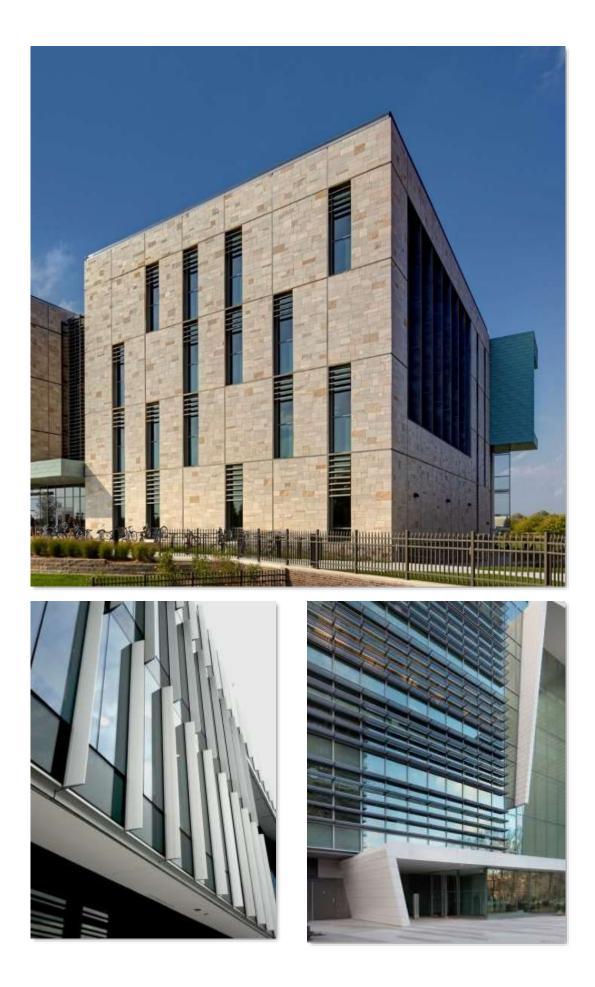
Classrooms- Daylight & View

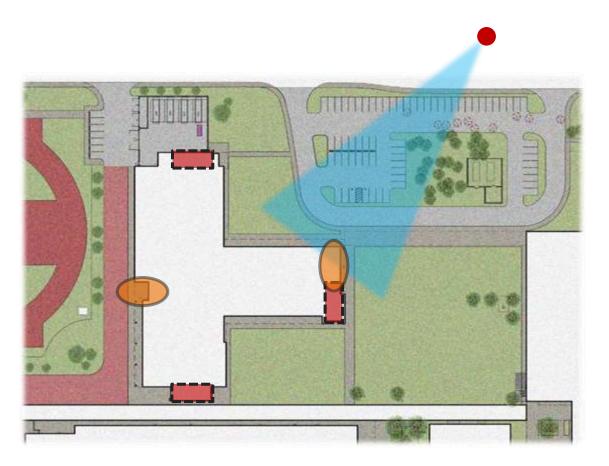


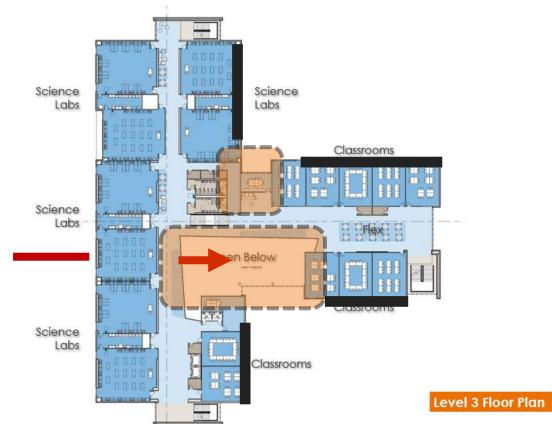




Science Labs- Limited Access







Articulation- Entry, Stairs, Flex Collaboration





Agenda: PAT Meeting #3

5 mins:	1.	Welcome & Introductions + Overview PAT Charge PAT Process + Objectives/Goals Project Scope Project Schedule
5 mins:	2.	PAT Meeting #2: Recap Meeting Highlights and PAT Input Feedback
60 mins:	3.	MHS Schematic Design Updates Site Plan at the New Building Floor Plans with enlargements Renovation of old Cafeteria Historical Perspective of MHS Exterior Vignettes
5 mins:	4.	Closing Remarks Wrap-up / Next Steps

