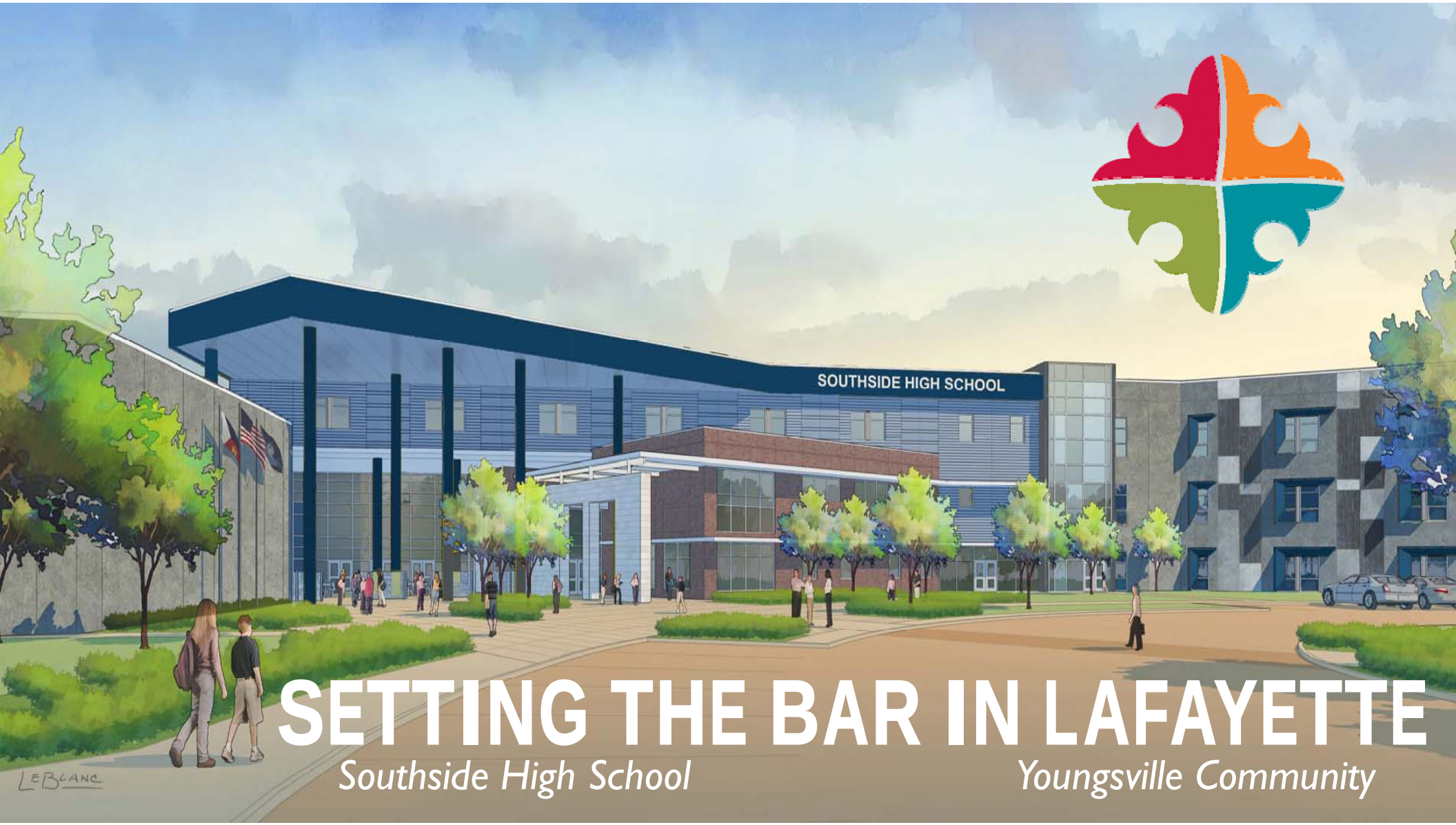


SETTING THE BAR IN LAFAYETTE

Southside High School *Youngsville Community*

PROJECT

LEED & CAREER PATHWAYS

COLLABORATION & ENGAGEMENT

CMR & FAST TRACK

MAKERSPACE

68 MILLION DOLLARS

256,000 SQUARE FEET

PHASE I - 1,400 STUDENTS

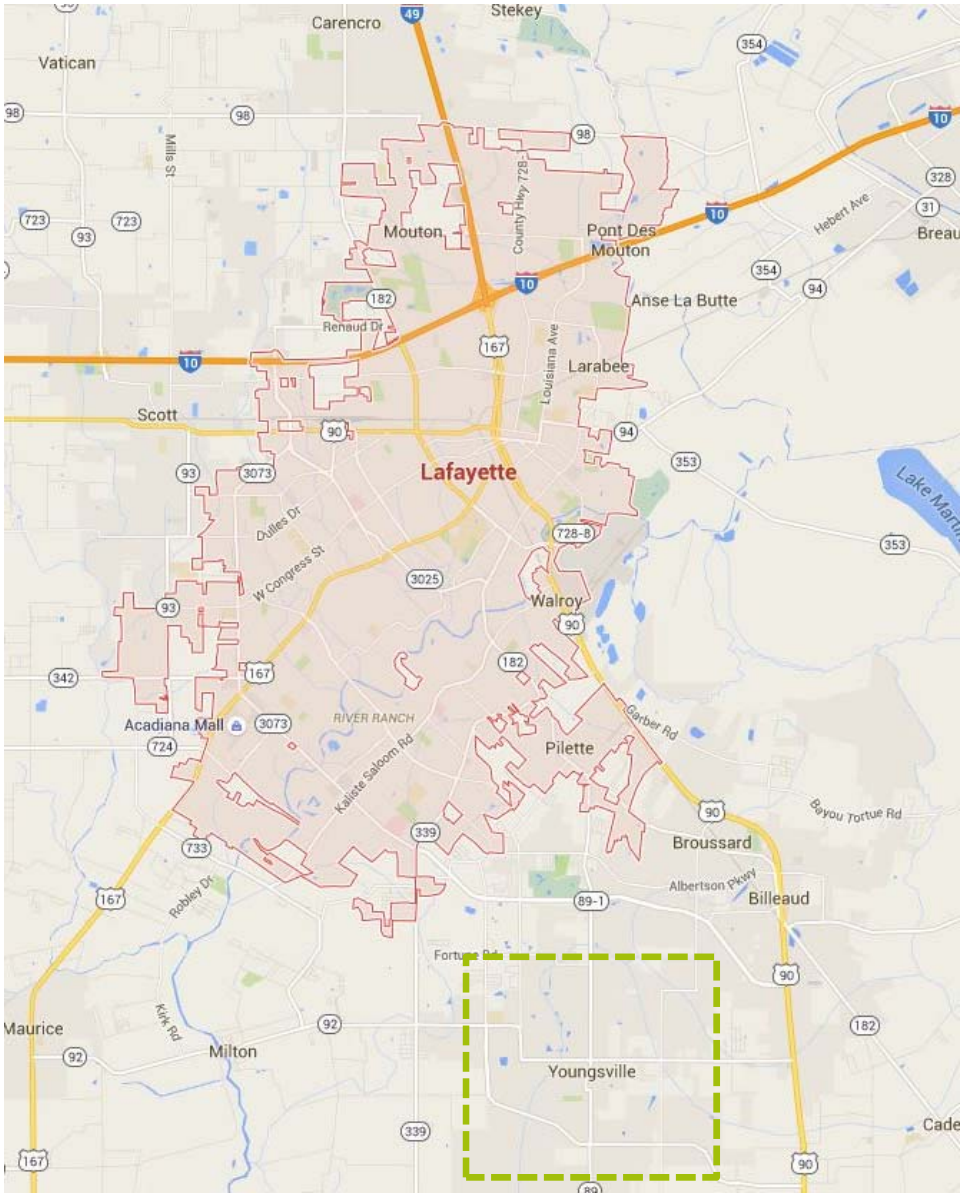
PHASE II - BUILDOUT FOR 2,000 STUDENTS

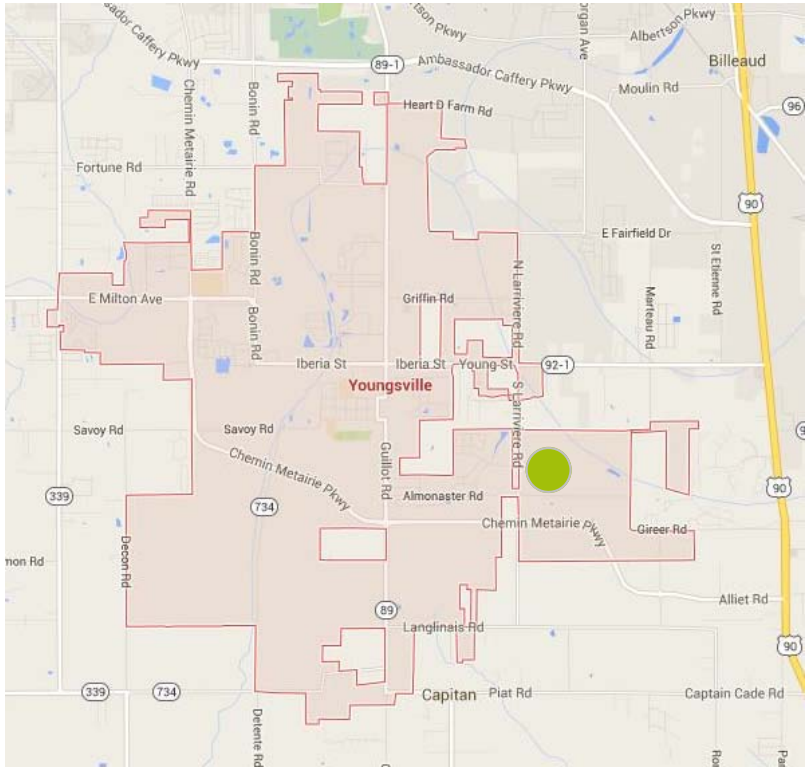
68 ACRES

LEED CERTIFIED

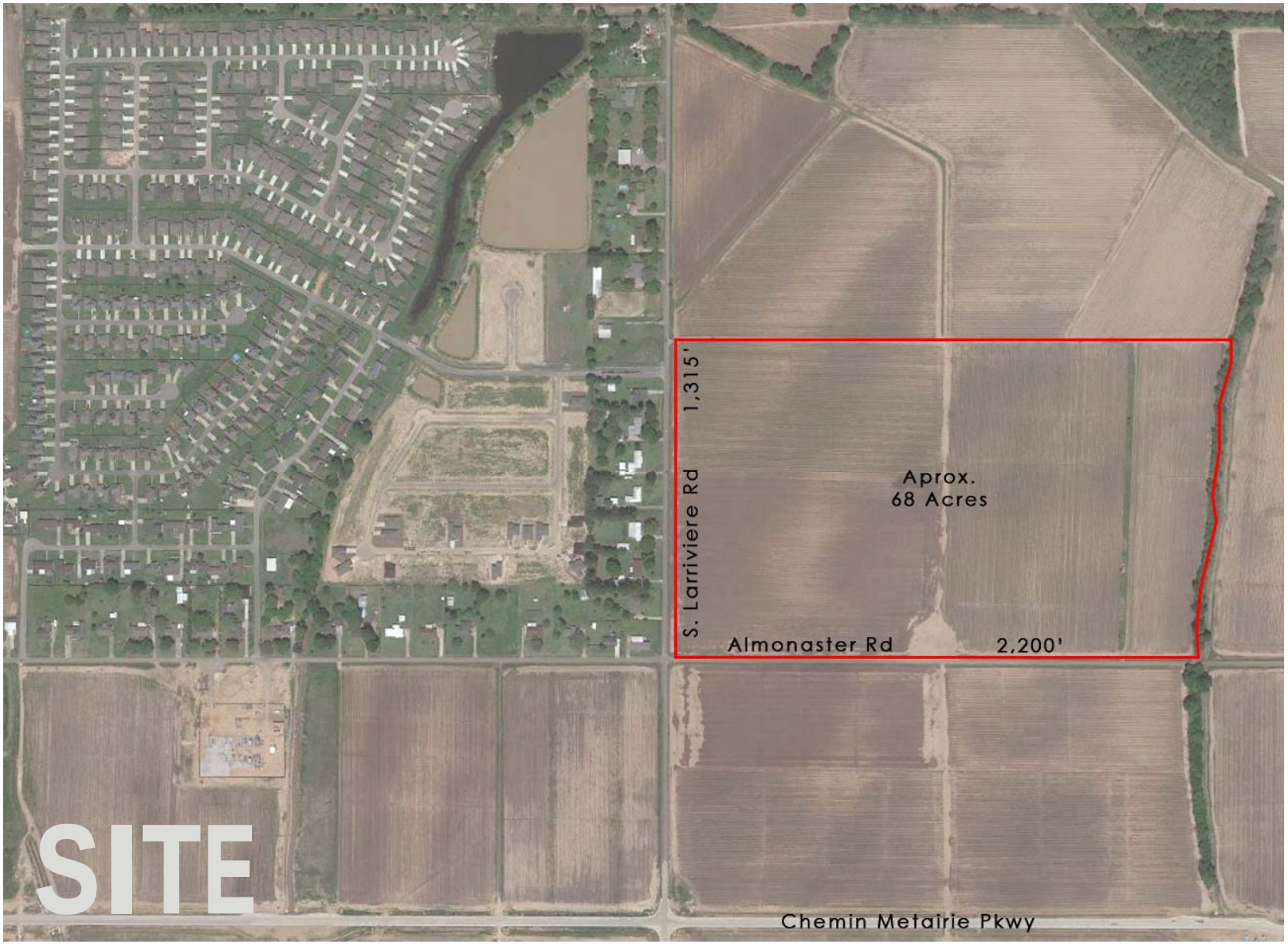
JOINT-VENTURE/FAST TRACK/CMR

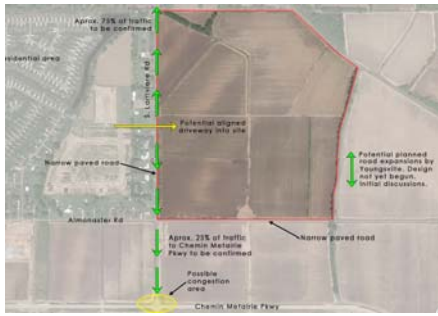
THE FACTS

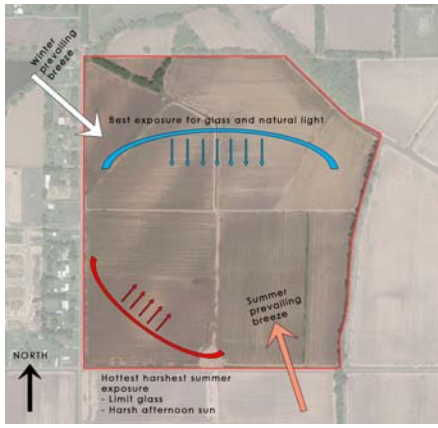

Carencro
Stekey
Vatican
Mouton
Pont Des Mouton
Anse La Butte
Larabee
Scott
Lafayette
Walroy
Pilette
Broussard
Billeaud
Acadiana Mall
RIVER RANCH
Maurice
Milton
Youngsville
Lake Martin
Mills St
County Hwy 728
Hebert Ave
Renaud Dr
Louisiana Ave
Dulles Dr
W Congress St
Kaliste Saloom Rd
Garber Rd
Bayou Tortue Rd
Albertson Pkwy
Robley Dr
Kirk Rd

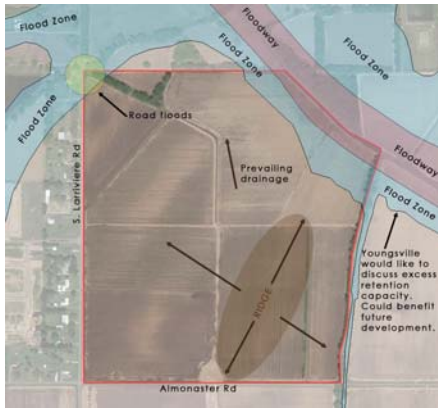

Ambassador Caffery Pkwy
Albertson Pkwy
Billeaud
Moulin Rd
Heart D Farm Rd
Fortune Rd
Chemin Metairie Rd
Bonin Rd
E Fairfield Dr
E Milton Ave
Griffin Rd
N Larriviere Rd
St Etienne Rd
Marteau Rd
Iberia St
Young St
Youngsville
S Larriviere Rd
Savoy Rd
Guillot Rd
Almonaster Rd
Chemin Metairie Pkwy
Girer Rd
Decon Rd
Alliet Rd
Langlinais Rd
Capitan
Piat Rd
Captain Cade Rd
Detente Rd

SITE


SITE
S. Larriviere Rd
1,315'
Aprox.
68 Acres
Almonaster Rd
2,200'
Chemin Metairie Pkwy


Aprox. 75% of traffic to be confirmed
Potential aligned driveway into site
Narrow paved road
Potential planned road expansions by Youngsville. Design not yet begun. Initial discussions.
Almonaster Rd
Aprox. 25% of traffic to Chemin Metairie Pkwy to be confirmed
Narrow paved road
Possible congestion area
Chemin Metairie Pkwy


Winter prevailing breeze
Best exposure for glass and natural light
Summer prevailing breeze
NORTH
Hottest harshest summer exposure
- Limit glass
- Harsh afternoon sun


Flood Zone
Floodway
Flood Zone
Flood Zone
Flood Zone
Road floods
Floodway
S. Larriviere Rd
Prevailing drainage
Flood Zone
Youngsville would like to discuss excess retention capacity. Could benefit future development.
Almonaster Rd

Lafayette High School

Carencro High School

Acadiana High School

Comeaux High School

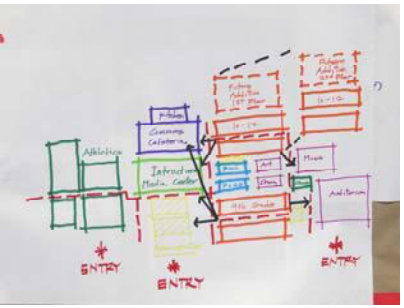
EXISTING SCHOOLS

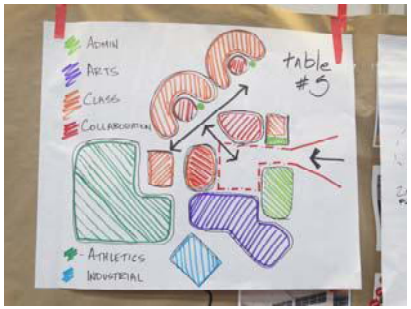
VISION

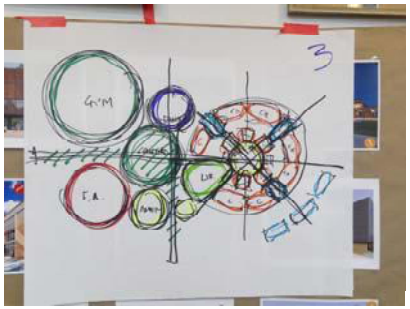
CHARRETTE DAY 1

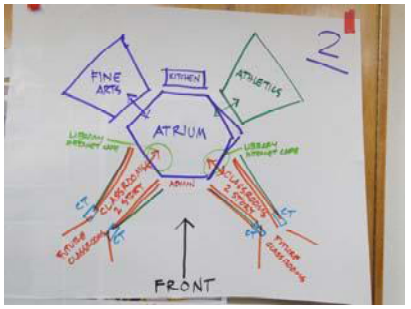
DESIGN IDEAS

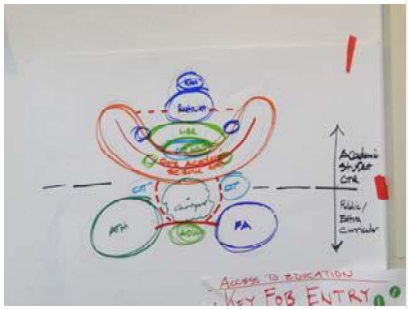
CHARRETTE DAY 2

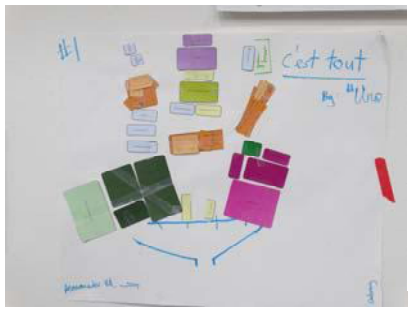


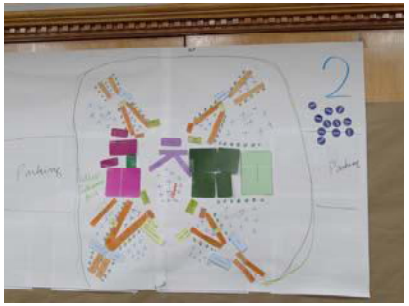


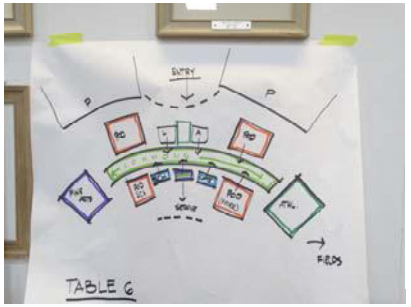


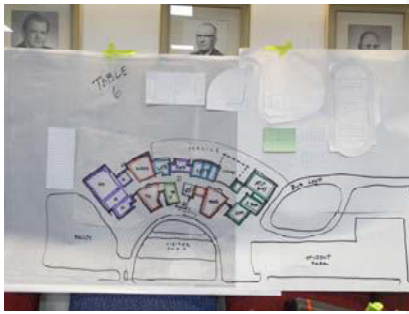








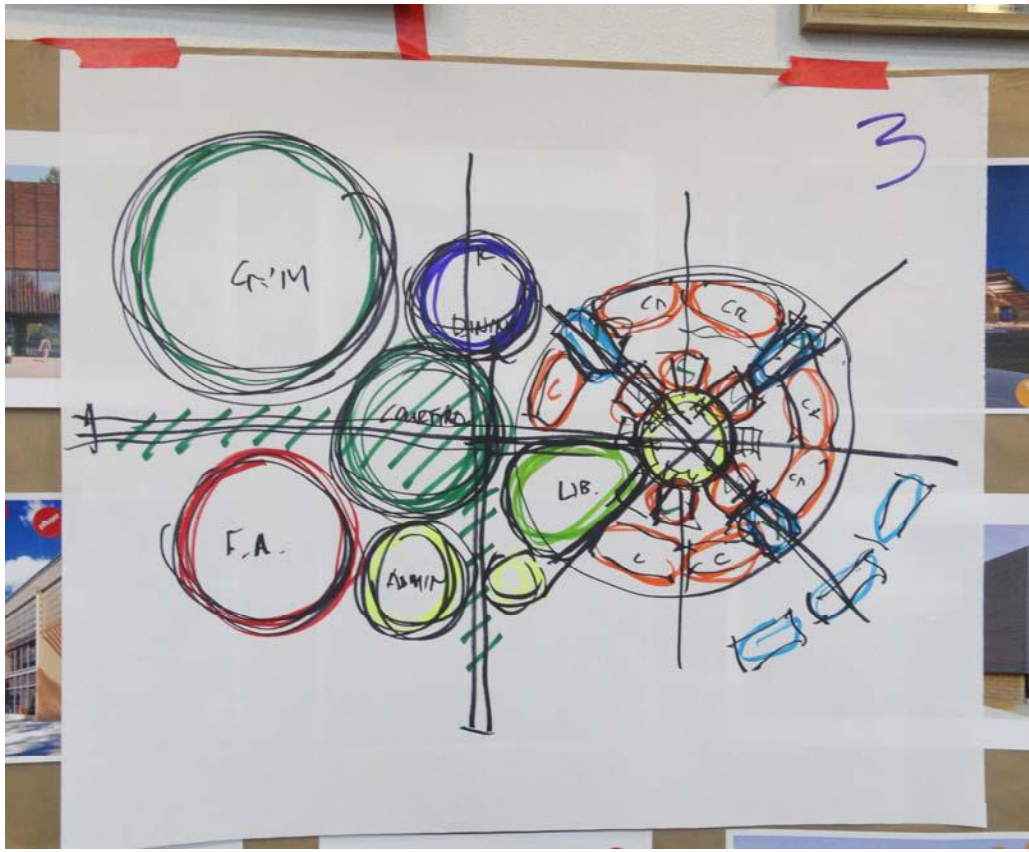




CONCEPTS

CHARRETTE DAY 3

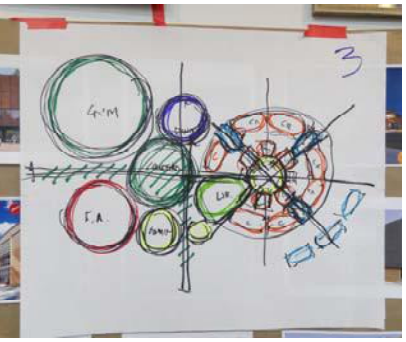
MAIN STREET



COMPACT PLAN

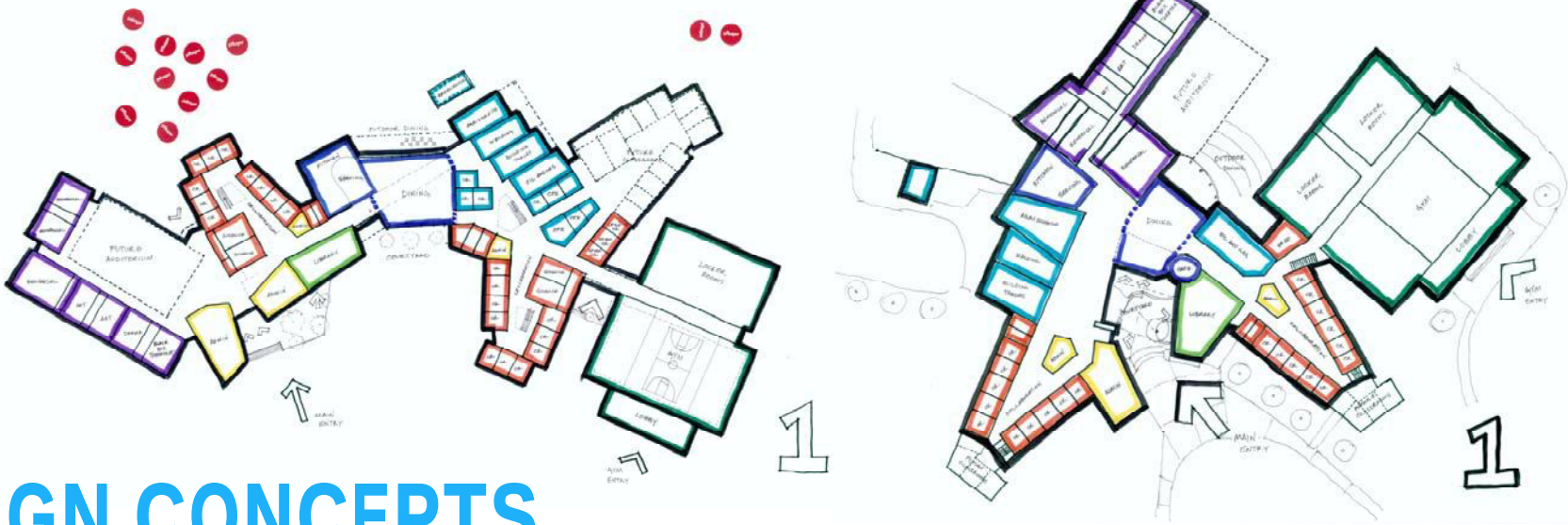
PRESENTATION DAY

CHARRETTE DAY 4

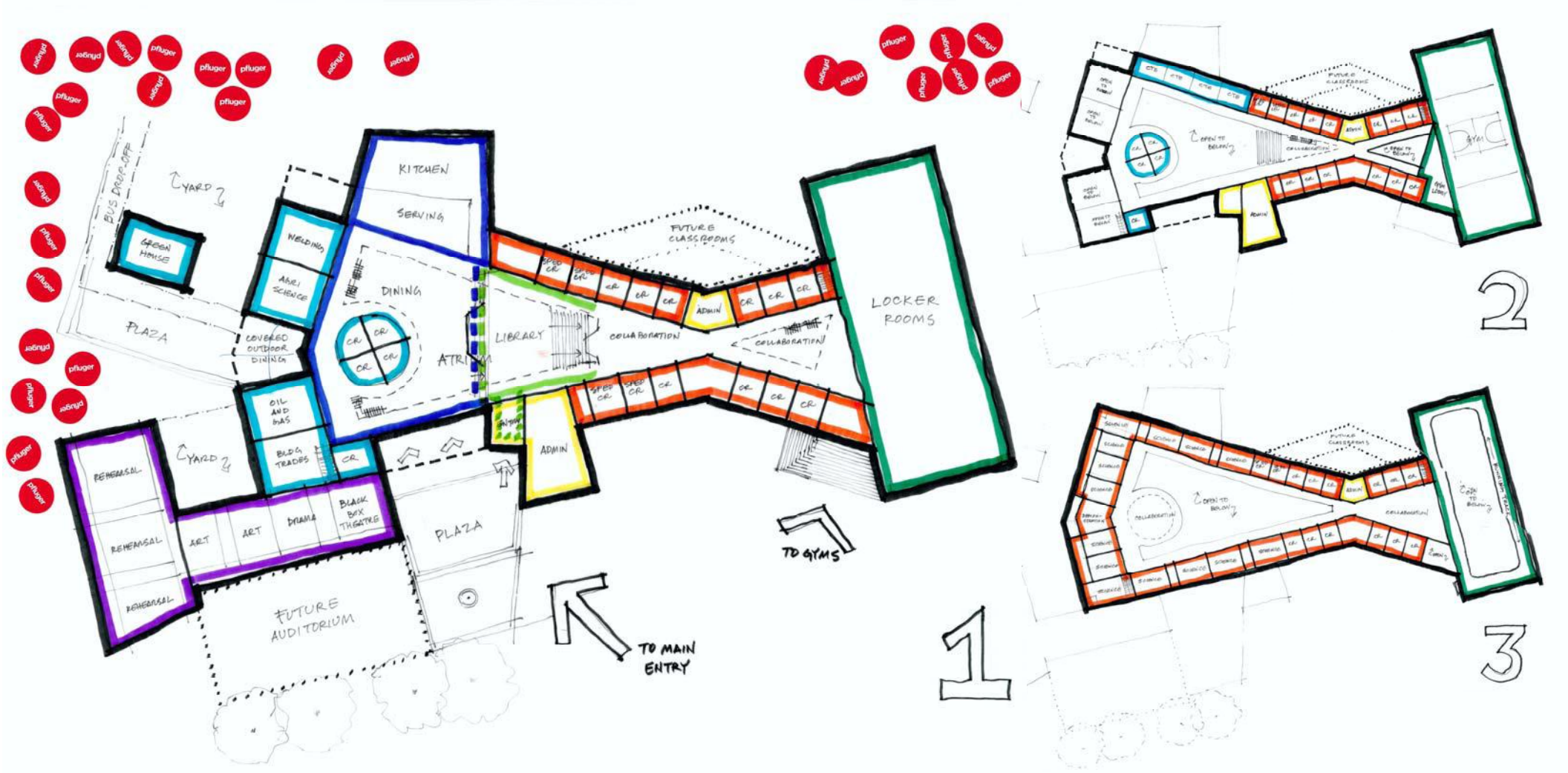


COMPACT PLAN

MAIN STREET



FINAL DESIGN CONCEPTS



FINAL CONCEPT SKETCH

REVIT MODEL – FIRST FLOOR PLAN

DISCUSSION OF A LEED SCHOOL DESIGNED TO ENCOURAGE STUDENT PARTICIPATION IN CAREER PATHWAYS.

- Why Energy, Agriculture and Natural Resources; community influence
- How career pathways were integrated into the school
- Challenges associated with LEED
- CTE front and center for exposure to students
- Fast-track created challenges for LEED
- CMR approach and philosophy regarding LEED; points compromised
- Statewide challenges associated with recycling
- Integrated arts and CTE for collaboration on projects
- Us and them analogy regarding CTE; visibility into workshops

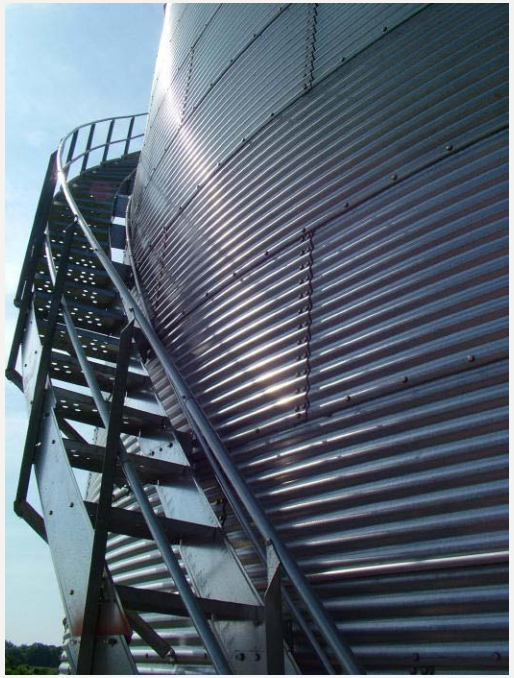
Career Pathways

Career & Technology Education

- Community influence on CTE programs
- Career pathway integration
- CTE forefront for exposure to students
- Collaboration through CTE and Arts integration
- Visual connection to CTE workshops

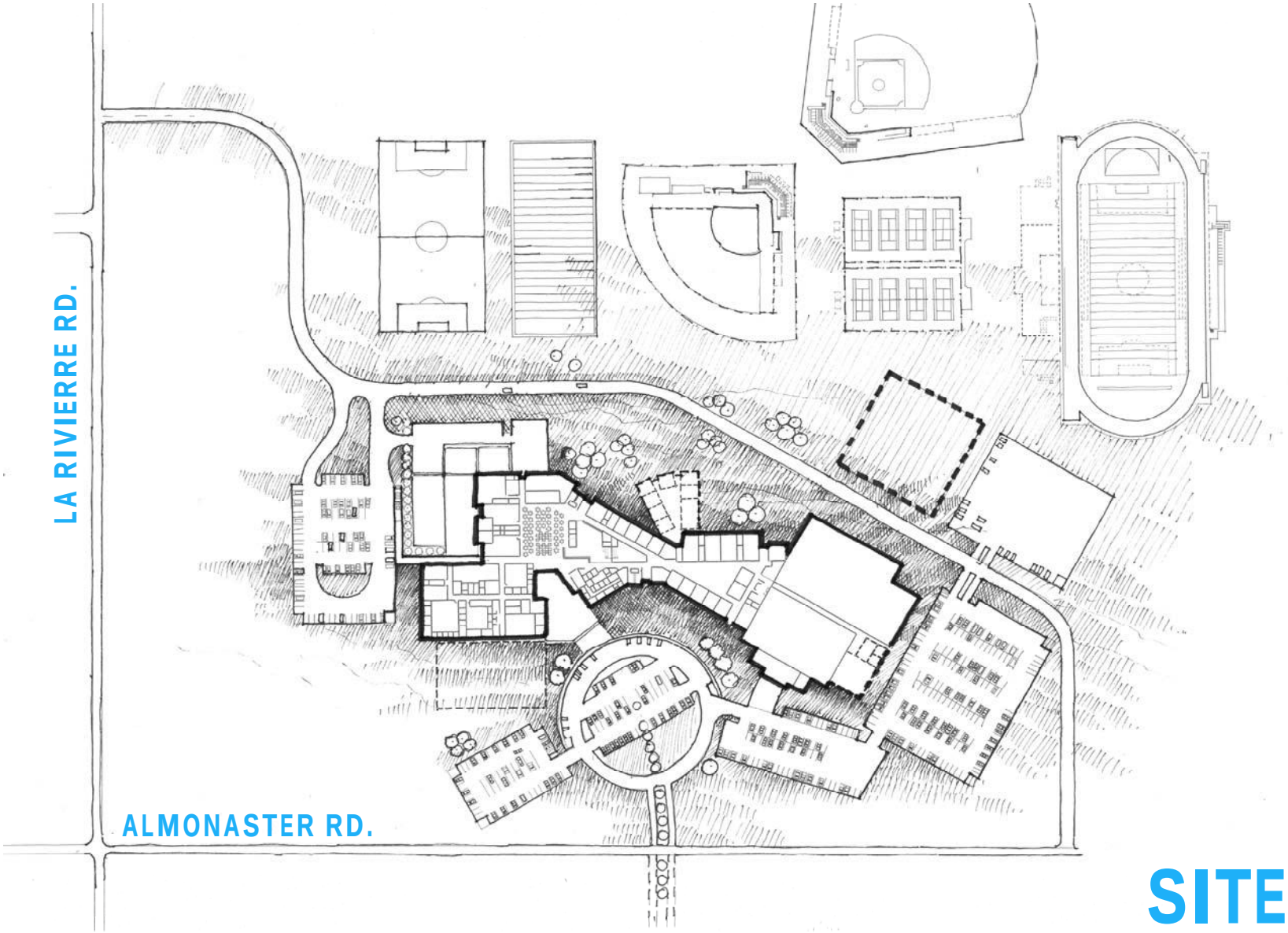
LEED Goals

- Challenges associated with LEED
- Local trade familiarity with process
- Regional limitation with construction waste recycling
- LEED related to Fast Track project delivery
- Introduce LEED integration early in bidding process to ensure compliance with requirements and cost



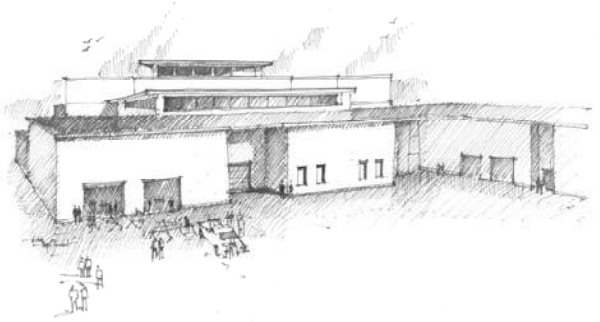
EXTERIOR CONCEPT IMAGES

EXTERIOR CONCEPT IMAGES

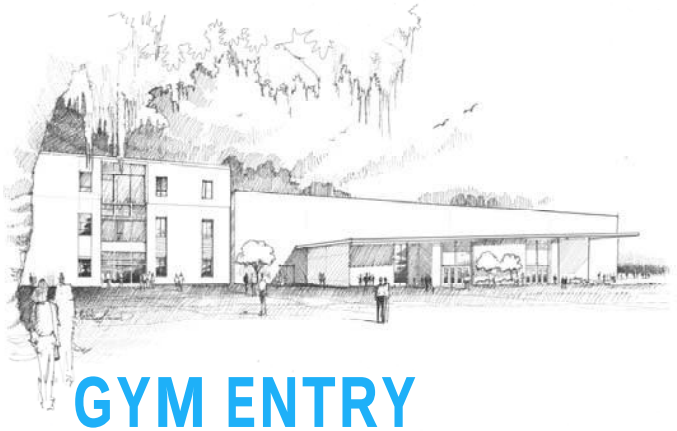


SITE PLAN

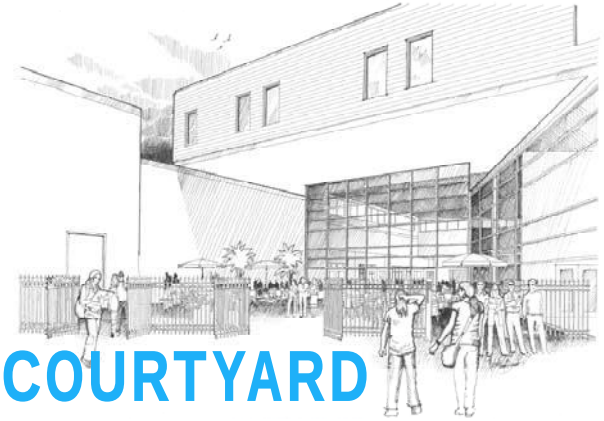
FRONT ENTRY



CATE SHOPS



GYM ENTRY



COURTYARD

TEACHER RESOURCE CENTER

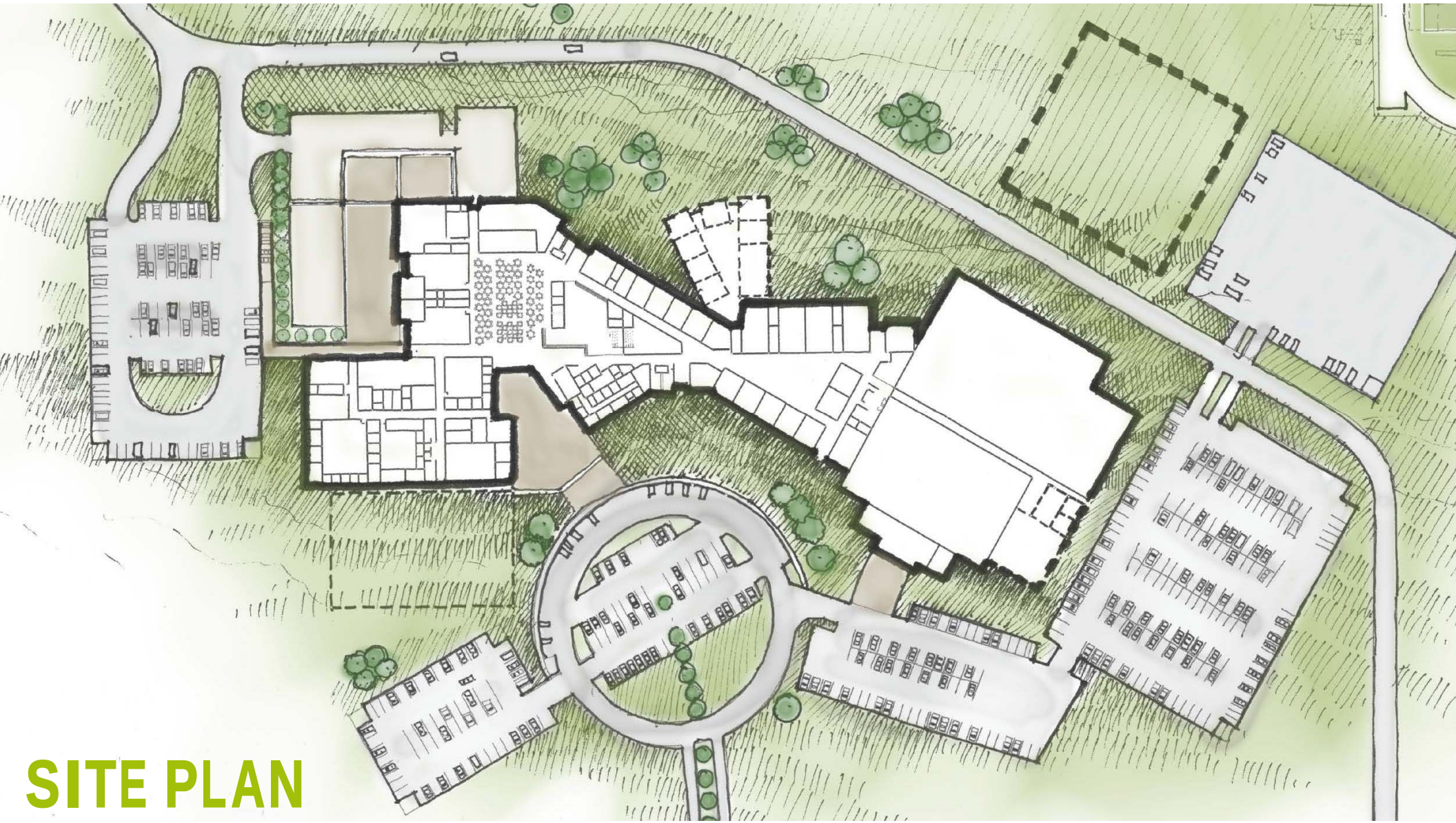
MAKERSPACE

COLLABORATION

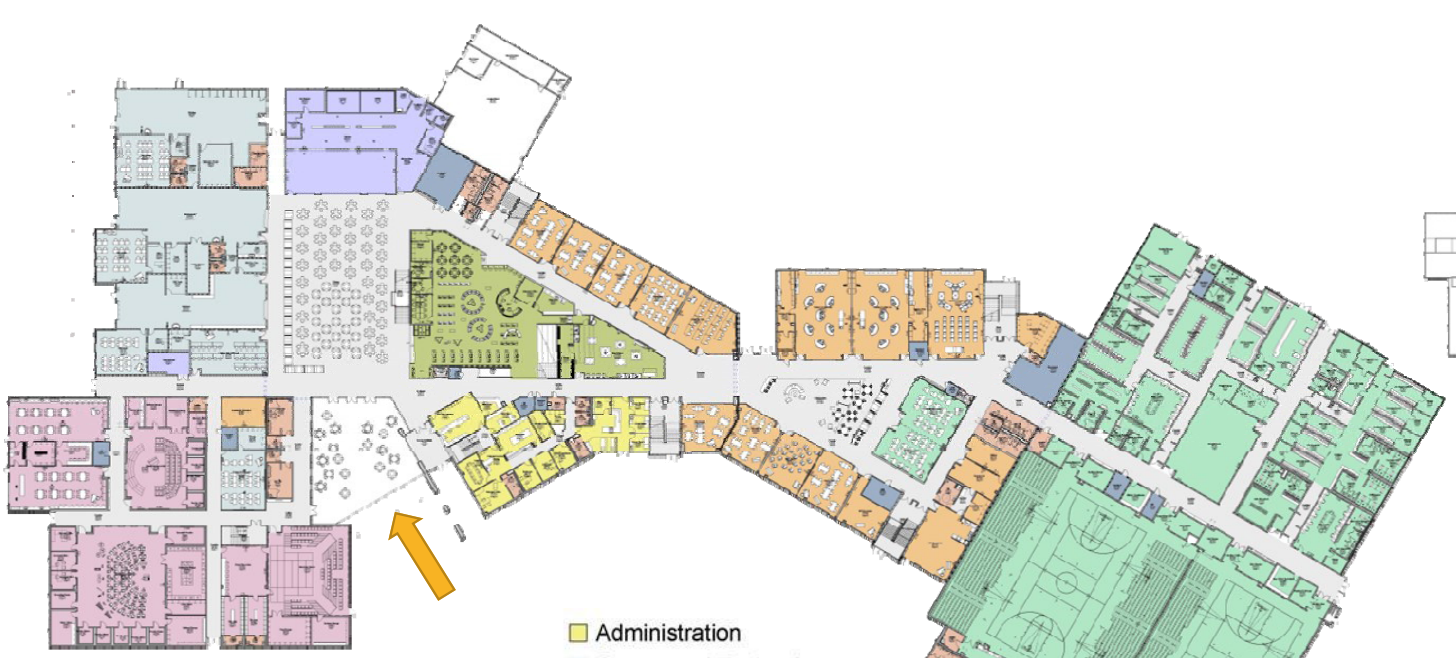
CAFE

DISCUSS THE ORGANIZATION OF A CAMPUS TO PROMOTE COLLABORATION AND ENGAGEMENT.

- Provide opportunities for interaction of students (and staff)
- FF&E selection; built for collaboration and mobility
- Opportunities for spontaneous learning, incidental and independent study, brainstorming
- Appeal to the students in classrooms; students are facilitators
- Transparency (safety, improves behavior of students and staff)
- Mobile environment, 1:1 devices both students and staff
- Create an advisory board with community involvement; collaboration that extends beyond the school and goes into the community; Town Hall meetings, etc.



SITE PLAN



LEVEL 1

LEVEL 2

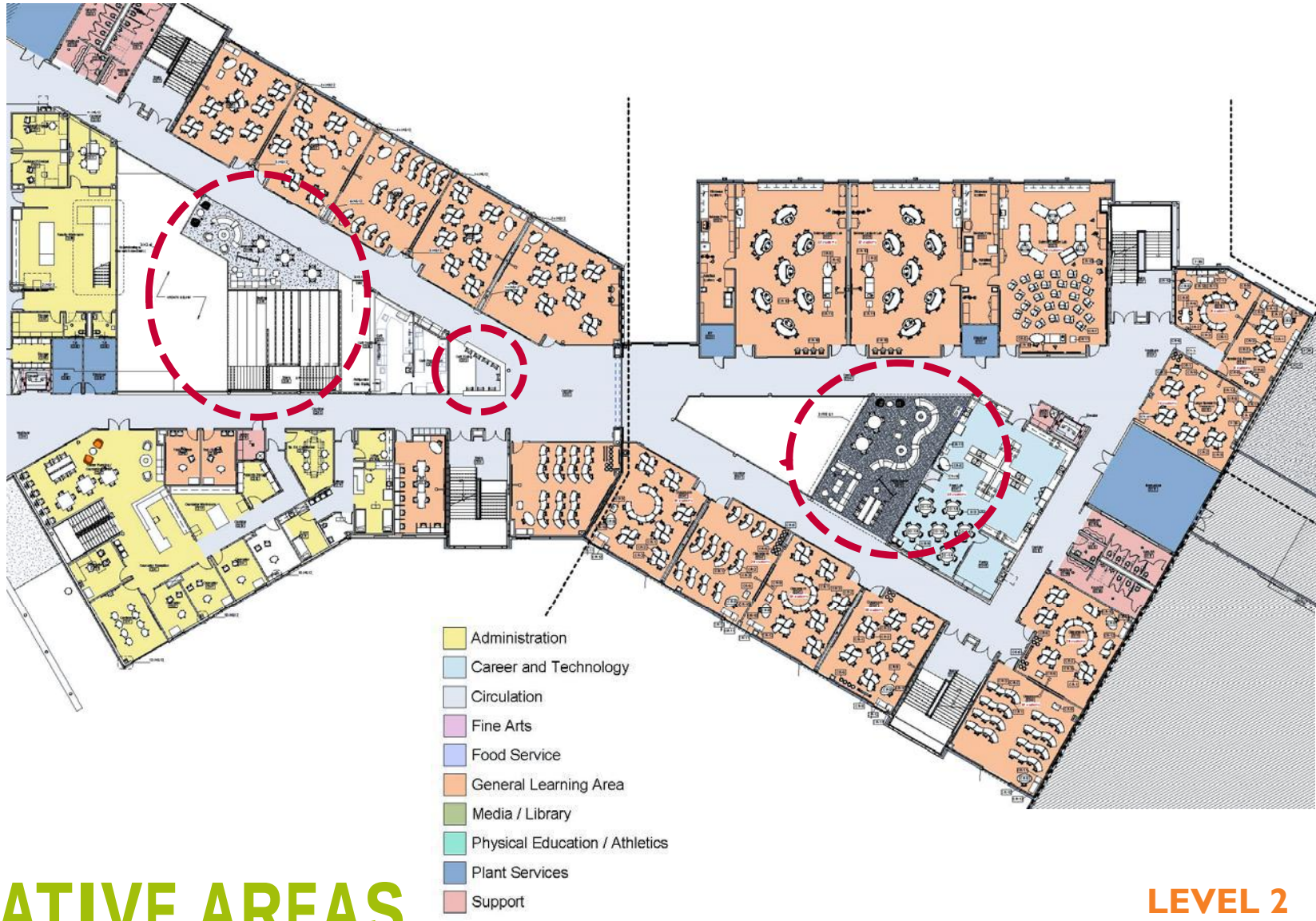
LEVEL 3

- Administration
- Career and Technology
- Circulation
- Fine Arts
- Food Service
- General Learning Area
- Media / Library
- Physical Education / Athletics
- Plant Services
- Support

FLOOR PLANS

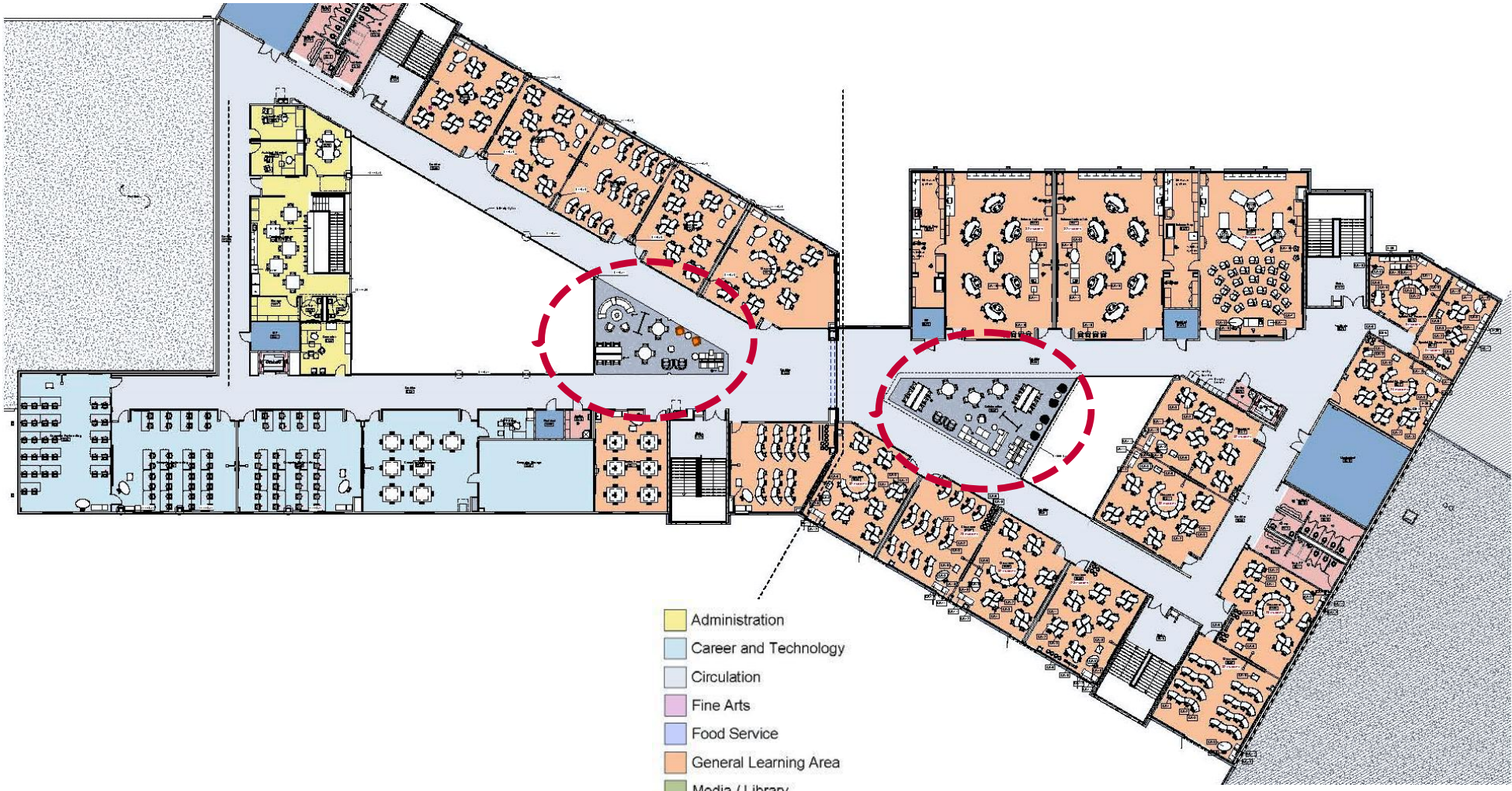
COLLABORATIVE AREAS

LEVEL I



COLLABORATIVE AREAS

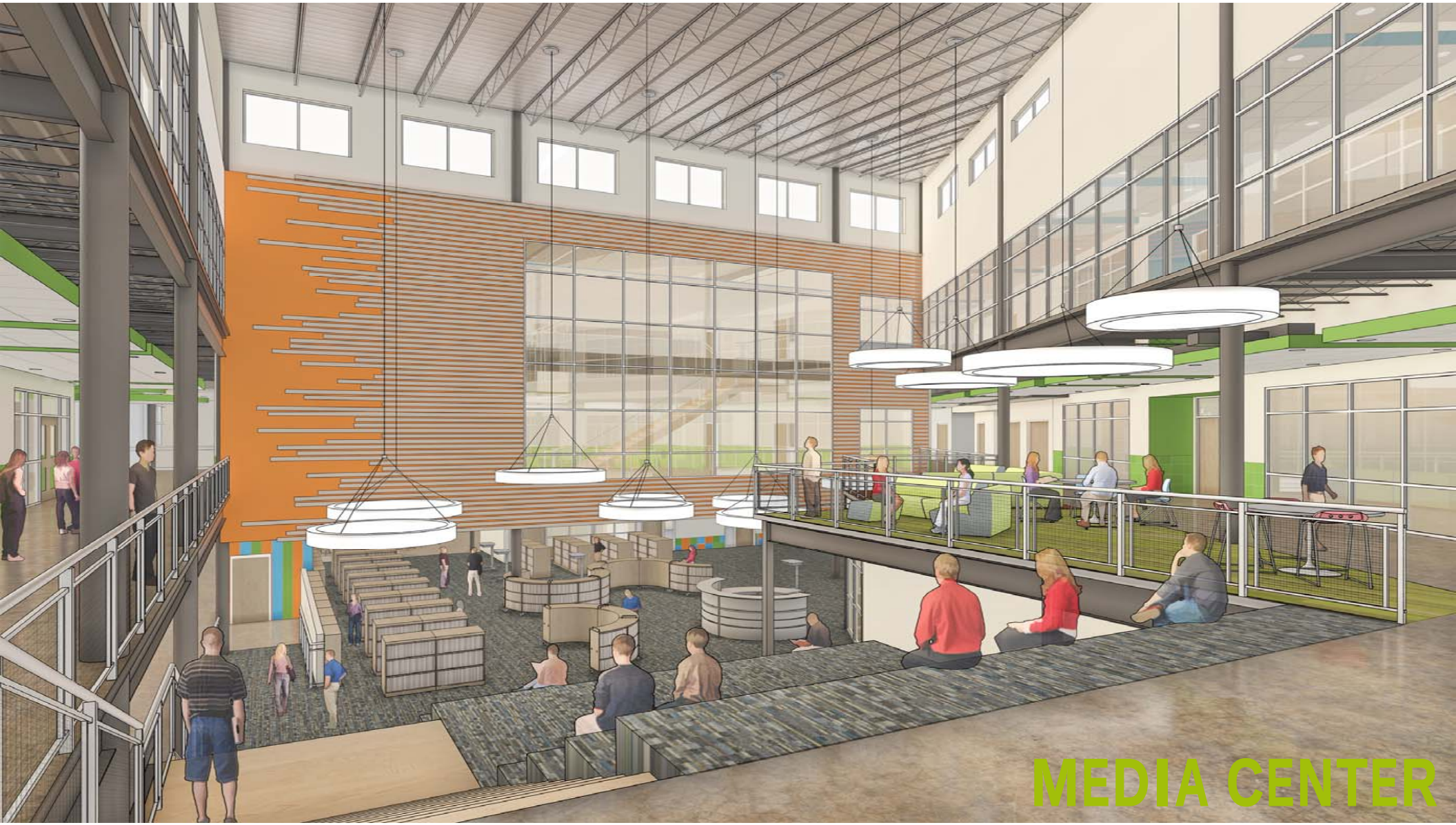
LEVEL 2



COLLABORATIVE AREAS

LEVEL 3


COLLABORATION


MEDIA CENTER

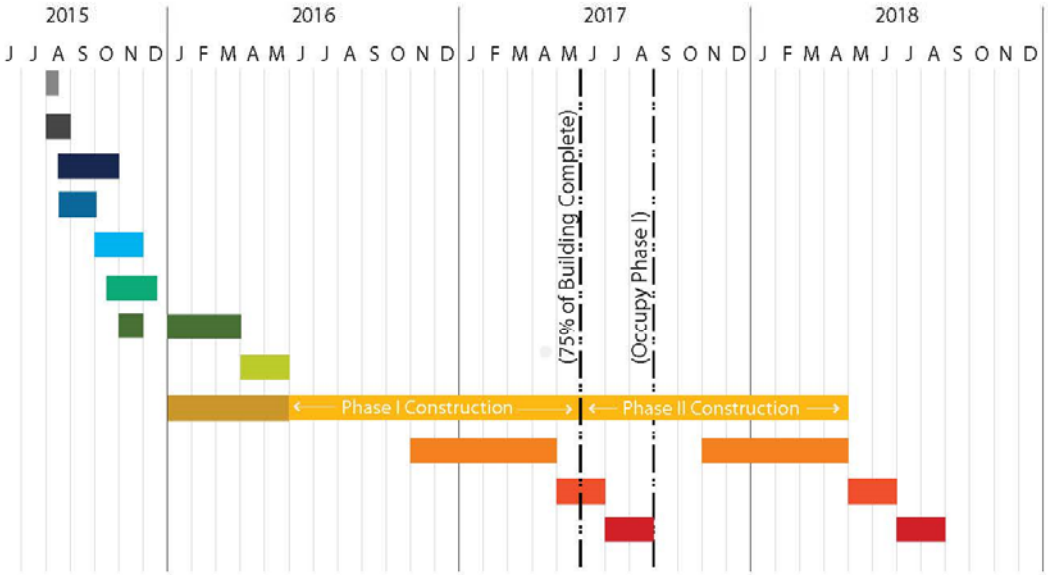
DEMONSTRATE HOW A CMR DELIVERY METHOD CAN BE SUCCESSFULLY UTILIZED TO FAST-TRACK CONSTRUCTION.

- Provide schedule of packages released; juxtapose original vs now
- Design and construction overlap – discuss challenges
- Discuss history of CMR with public projects in LA (no precedent); why best for LPSS
- Initial thoughts still under construction; how it has evolved
- Fast-track issues; schedule affected everyone; decision making
- LPSS time and leadership commitments; good team with Lemoine
- Everyone engaged from 30% DD; SD would have been better
- Premium more for fast-track than for CMR; quality of final project
- What would you do differently? Started sooner?
- Green light on project from LPSS, how many months it took
- Any advice? Put the FF&E in CMR? USDA funding factor requires open competition; openly bid technology package

CM-AT-RISK & FAST TRACK

- 3 year project timeline compressed into 22 months
- First Design Workshops held August 2015
- CM-at-Risk engaged November 2016 (began releasing pricing packages)
- GMP issued March 2016
- Site work & deep foundation early release packages issued March 2016
- Construction began (site work) May 2016
- Permit set issued June 2016
- CD's completed August 2016 (including all early release packages)

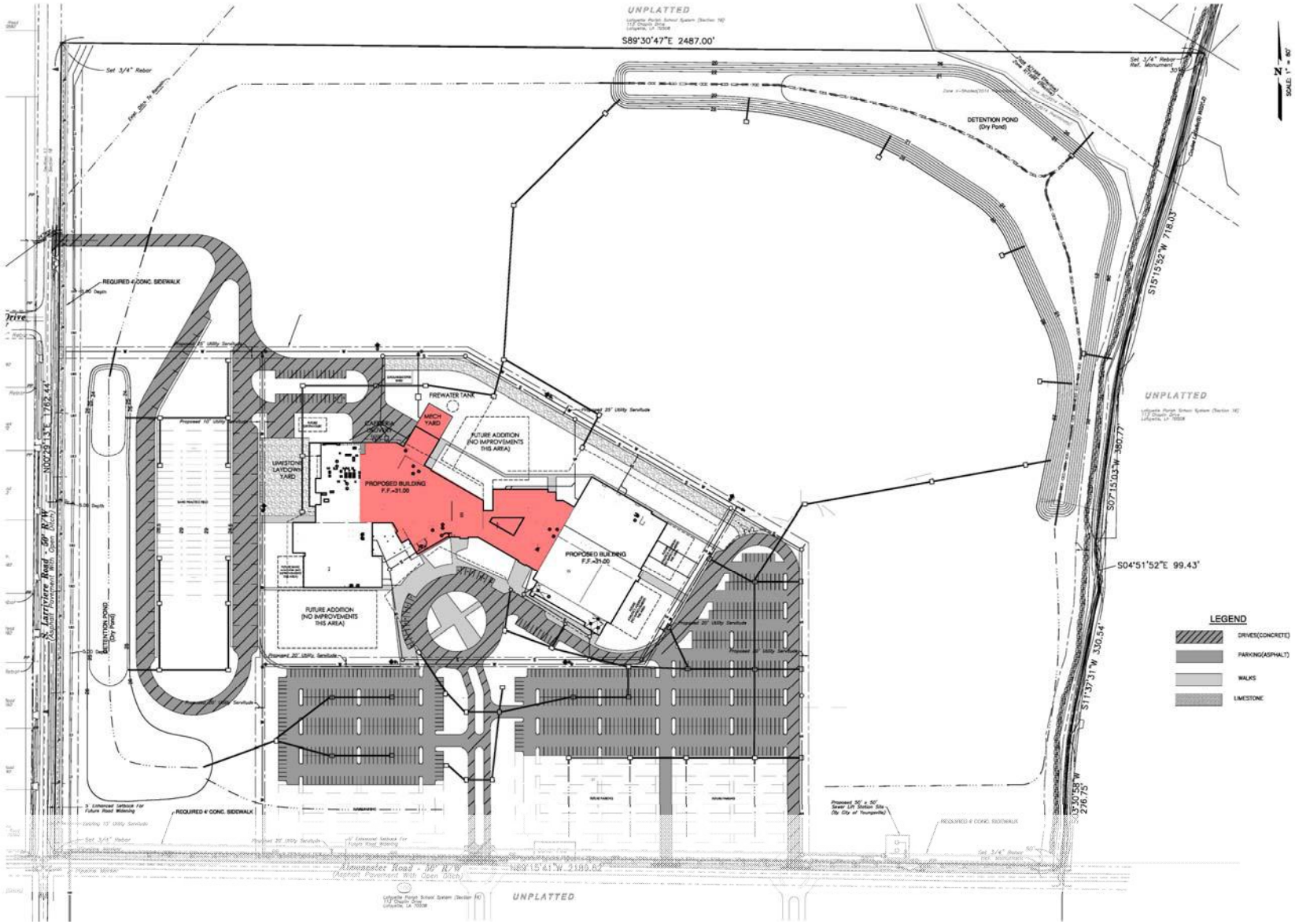
Proposed Schedule For Youngsville Area New High School (Construction Manager-at-Risk Procurement Method)



- CMAR – Design input in design for phasing
- Organize Program and Design Charrettes to jump start process
- Early release of site, infrastructure, building pad and possibly structure
- Phase development to accommodate 9th and 10th grade by Fall '17

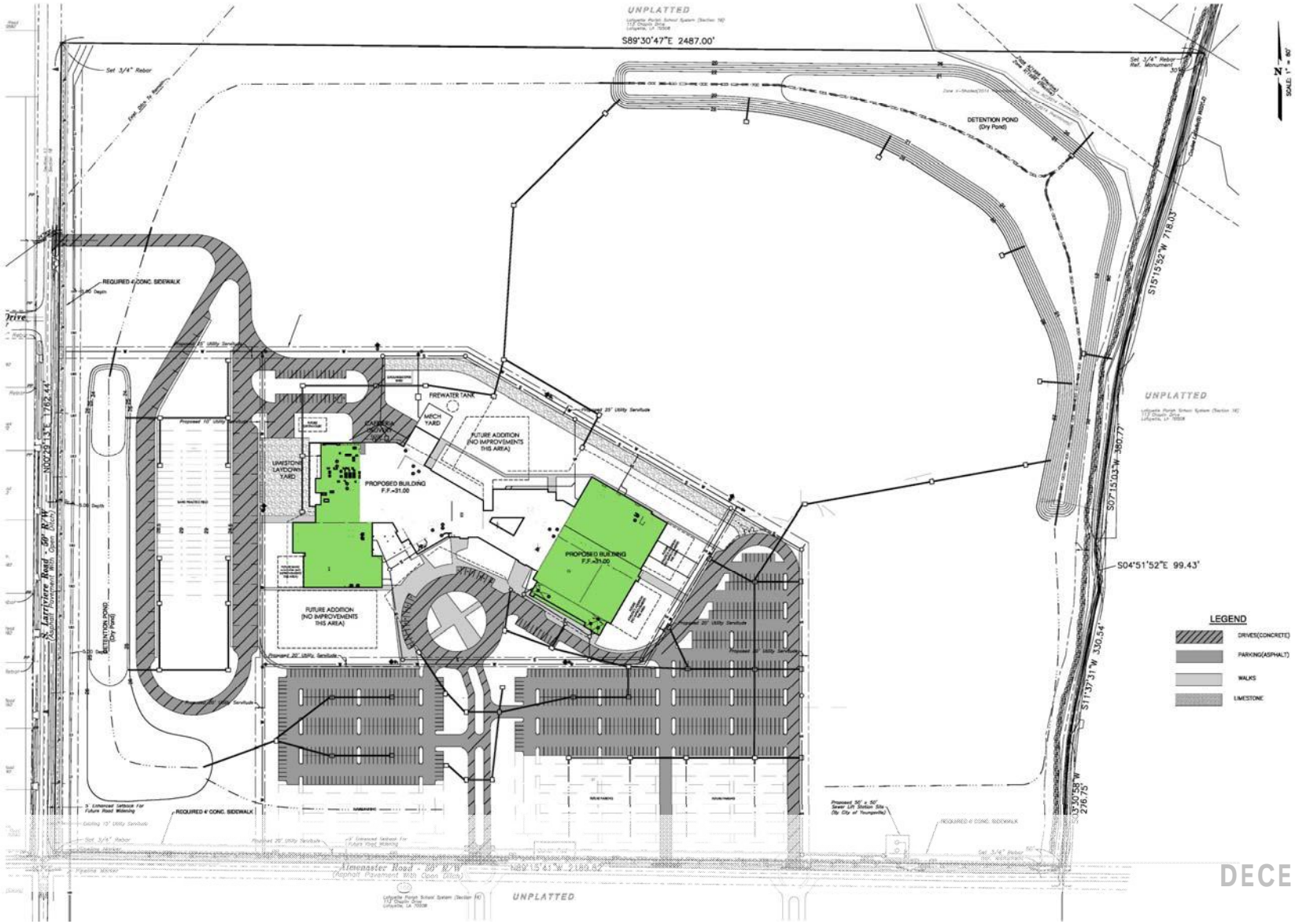
SCHEDULE

GROUND BREAKING



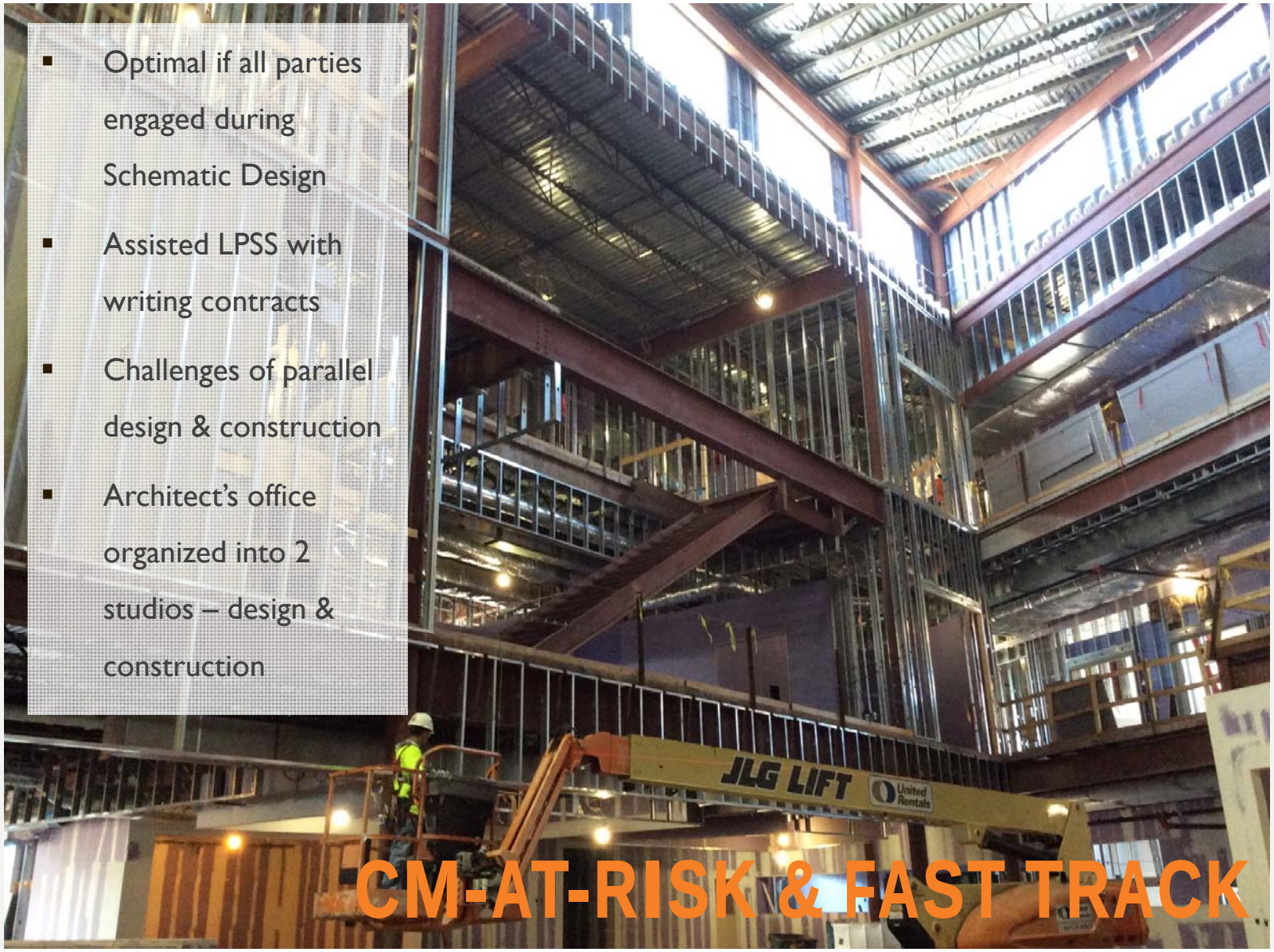
SITE

JULY 2017



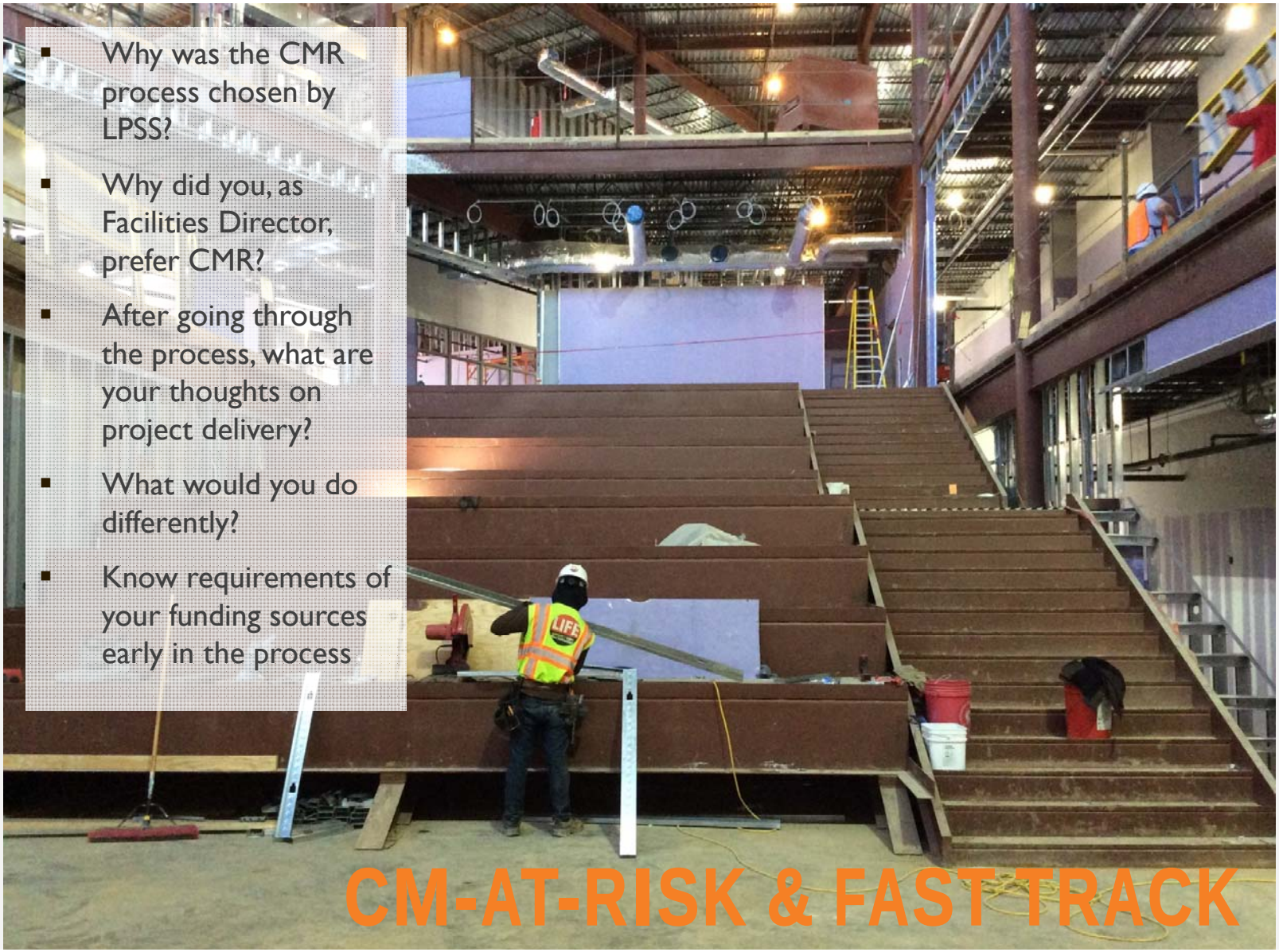
SITE

DECEMBER 2017



CM-AT-RISK & FAST TRACK

- Optimal if all parties engaged during Schematic Design
- Assisted LPSS with writing contracts
- Challenges of parallel design & construction
- Architect's office organized into 2 studios – design & construction



- Why was the CMR process chosen by LPSS?
- Why did you, as Facilities Director, prefer CMR?
- After going through the process, what are your thoughts on project delivery?
- What would you do differently?
- Know requirements of your funding sources early in the process

HOW DO YOU BUILD A 256K SF HIGH SCHOOL IN 18-MONTHS?

DISCUSS WHAT IT REQUIRES TO ENSURE THAT A MAKERSPACE IS UTILIZED FULLY.

What is a Makerspace?

Current trend in 21st century K-12 schools and higher ed

Needs a champion that is an engineer/scientist type

Place where students can research, invent, create, and learn

Curriculum designed to support use (Genius Hour elective); projects that require it

Students use physical and virtual tools to create things

Feature a variety of equipment

- No set list
- High tech and low tech
- Physical and virtual

MAKERSPACE VIDEO

DISCUSS WHAT IT REQUIRES TO ENSURE THAT A MAKERSPACE IS UTILIZED FULLY.

Although there's no set equipment list, what's some common equipment found in these spaces?

Fabrication:

- 3D printers
- Laser cutting machines
- CNC milling machines
- Sewing and embroidery machines

Circuitry and coding materials:

- Makey-Makey, littleBits

Physical Computing:

- Arduino boards
- Raspberry Pi
- Robotics

Programming

Other Basic Stocks:

- Legos / blocks
- Electronic parts and tools (ex. LEDs, soldering iron, wire, copper tape, resistors, capacitors, conductive paint, etc.)
- Computers, cameras, software (caBles, green screen, video camera, microphones, headsets, etc.)
- Craft and art supplies (ex. Rubber bands, paper clips, scissors, duct tape, modeling clay, glue gun, etc.)
- Building materials and traditional tools (ex. wire cutter, strippers, small pliers, etc.)
- Junk (ex. old phones, televisions, unwanted electronics, etc.)

DISCUSS WHAT IT REQUIRES TO ENSURE THAT A MAKERSPACE IS UTILIZED FULLY.

What are some items that should be considered when building a formal space?

Location:

- If it can be built near a shop class, this is important because shop teachers often have more tools that can be integrated or utilized for students' projects. It may not be feasible to build this space directly next to the library; however, it would be great to make the transportation of a project easy between these locations.
- Laser cutting machines - work best if you can ventilate them outside

Flooring: projects can get messy; use flooring that is easy to clean (possibly avoid carpet)

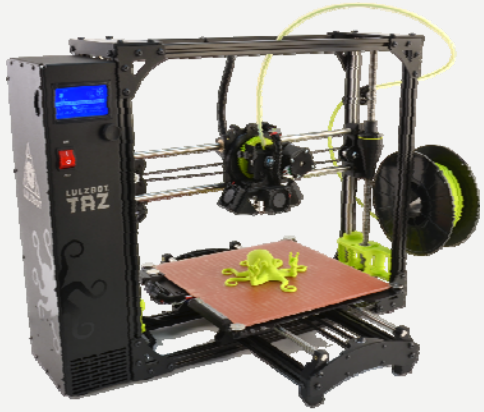
Storage & Furniture:

- some storage space is necessary (have bins to account for small parts and cabinets for other materials / tools)
- Have a space to store in progress projects
- Need clearly defined areas for equipment- some equipment will connect to computers or laptops for design purposes

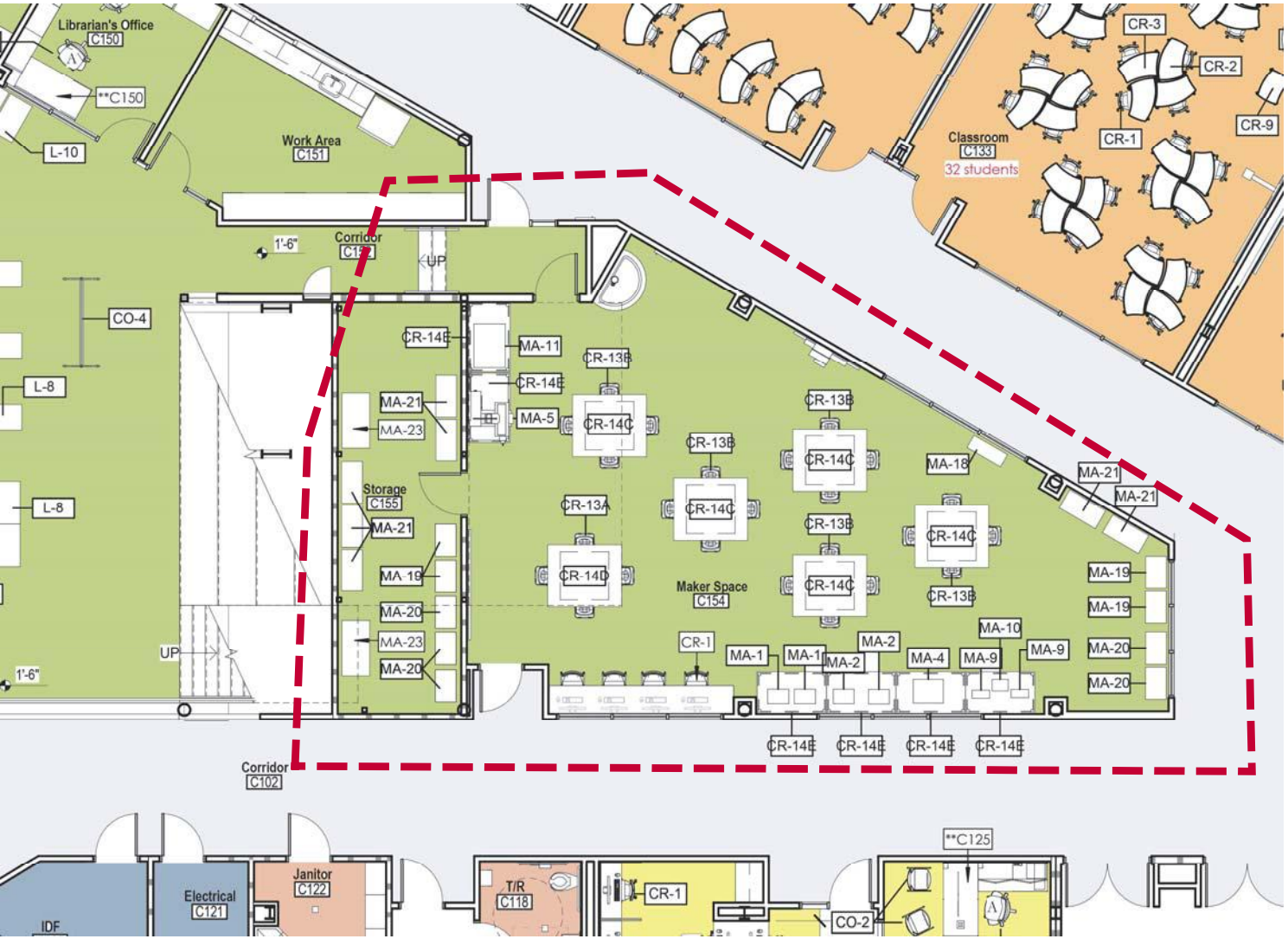
DISCUSS WHAT IT REQUIRES TO ENSURE THAT A MAKERSPACE IS UTILIZED FULLY.

What are some other features to have that would be nice for this space?

- Writable walls or surface - projects require planning, thinking, and collaboration. It would be good to have a space where students can work through the design cycle
- Smart TV or Active board
- Collaborative space for design cycle or individual planning spaces



MEDIA CENTER & MAKERSPACE



MEDIA CENTER & MAKERSPACE

What's included in the Southside High School Makerspace?

CR-1	**Computer Chairs**
CR-13A	Stools
CR-13B	Stools
CR-14C	Student Tables
CR-14D	Student Tables
CR-14E	Student Tables
MA-1	3D Printer
MA-2	3D Printer
MA-3B	Filament
MA-3A	Filament
MA-4	3D Printer
MA-8	Mill
MA-5	Filament
MA-6	Filament
MA-7	Extruder Tool
MA-9	Sewing Machine
MA-10	Embroidery Machine
MA-11	Laser Cutter
MA-12	Robotics
MA-13	Electronic Building Blocks
MA-14	Electronic Building Blocks
MA-15	Electronic Building Blocks
MA-16	Electronic Building Blocks
MA-17	Electronic Building Blocks
MA-18	Vinyl Cutter Machine
MA-19	Storage Cabinet
MA-20	Storage Cabinet
MA-21	Storage Cabinet
MA-22	Caster Kit

ABELL + CROZIER + DAVIS
ARCHITECTS

Eric Crozier, AIA
eric@acdarchitects.com

LAFAYETTE
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Kyle Bordelon
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pfluger

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