

New 800 Student Elementary School | ***Building Program*** April 2017
Santa Fe Independent School District



Board of Trustees

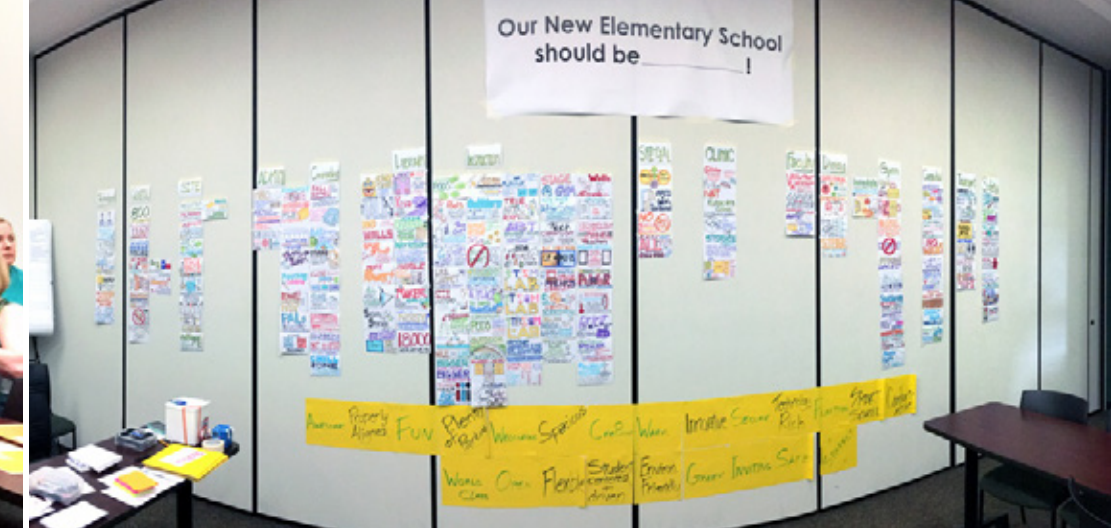
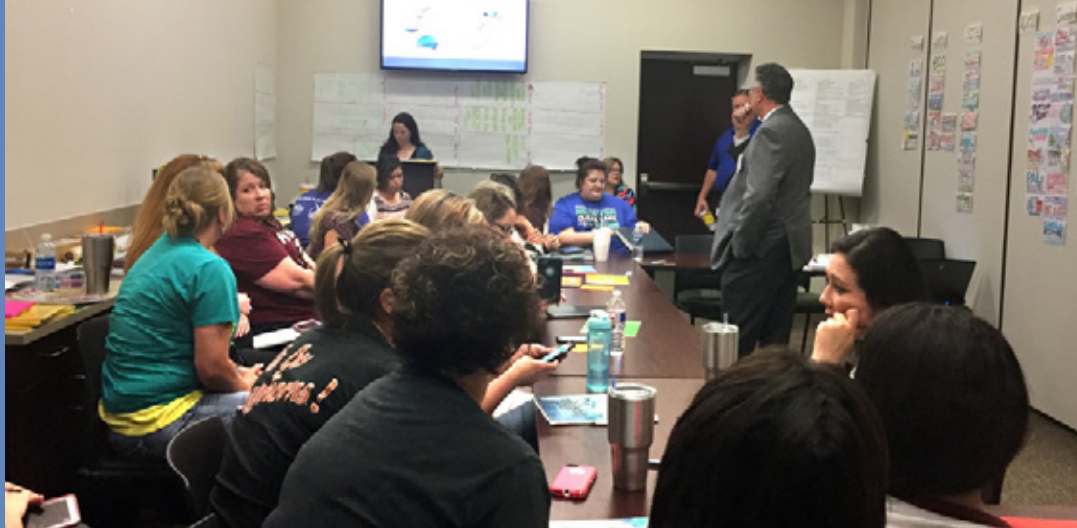
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PROGRAMMING your new elementary school is one of the first tasks during the project – and one of the most important. We (cre8) believe that when the design team and the client participates in a thoughtful and cooperative effort the end result will be a project that not only looks good but one that performs well. The programming effort is a process leading to the statement of the architectural problem – and the requirements to be met in developing the solution to that problem.

During the week of April 3rd cre8 conducted a program charrette session with various groups representing the Santa Fe community, the Board of Trustees, the District Administration and faculty / staff from campuses throughout the District. More than 65 persons assembled over a four-day period to share information and discuss goals / strategies for the new elementary school facility. Throughout this process, cre8 graphically documented the goals and ideas utilizing large-format index cards. The results of the program charrette are recorded in this Program Book.

Additionally, a single word to complete the following sentence was requested from the participants:

“Our new elementary school should be _____!”

PROBLEM STATEMENT

Function

Faculty and Students will be provided multiple spaces that are adaptable to different types of learning. A Collaborative Learning Culture will be supported by instructional spaces that are flexible and of varying sizes to accommodate groupings of multiple classes, singular class groups, small groups and individuals.

Economy

The new facility will utilize durable materials and efficient systems that will lower operating costs of the building over its life. Selection of building materials, finishes and systems will be based on maximum life cycle permitted by the project budget.

Form

The elementary school will house a well-balanced and student-centered program of education that encourages communication and enhances the learning experience. Flexibility of space and furnishings will allow changes to be made by the instructor and/or students quickly and easily.

Time

The elementary school population may continue to increase. Continuous advancements in technological systems and the evolution of career paths will impact the building and its instructional programs. The school design will allow for future expansion and modifications to occur economically and efficiently.

Our new elementary school should be
world class!



SANTA FE
history display

Assemblies
ALL GRADE LEVELS
ONE SPACE

800
students

general

NO MORE
STORING
school
stuff
IN MY
attic

Our new elementary school should be

green!

PLAN FOR EXPANSION
1200

CAFETERIA NEAR THE
FRONT OF SCHOOL
DINING
ISOLATE
PARENT
TRAFFIC FROM
REST OF
School
ENTRANCE
VESTIBULE
NO VISITORS
BEYOND
THIS
POINT
NO VISITORS
BEYOND
THIS
POINT

NO
Wandering
opportunities

BIG
ASSEMBLY AREAS

Building as
Teaching
Tool

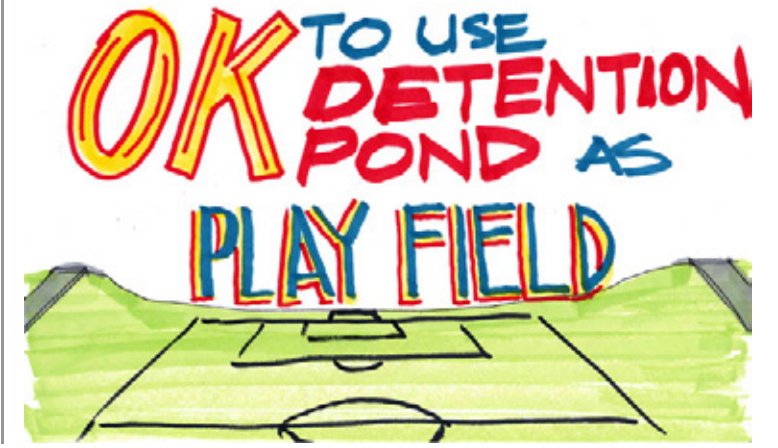
Windows
EVERYWHERE

Short
TRAVEL
DISTANCES

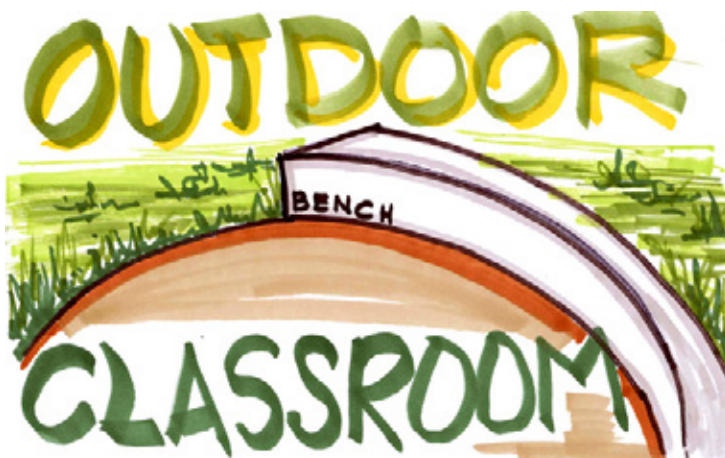
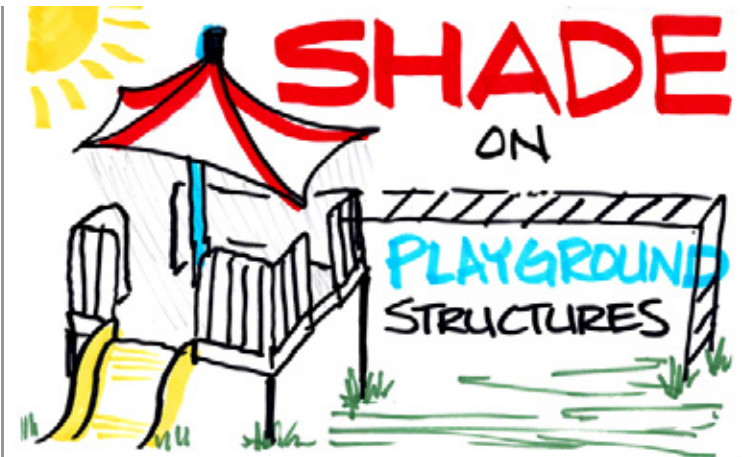
STORAGE

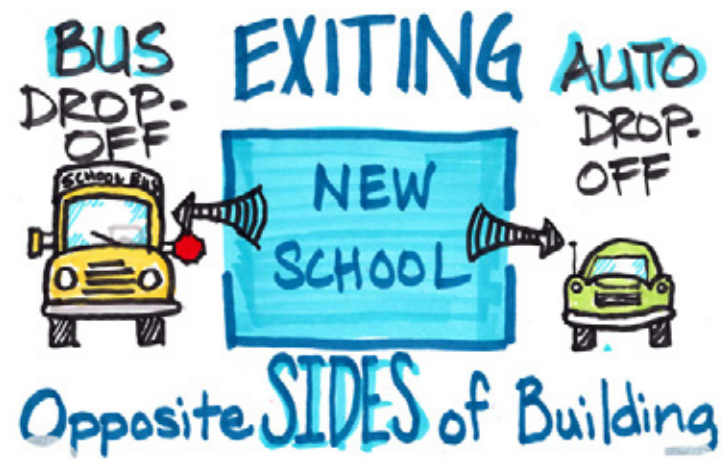
SHOWCASE
student
ACHIEVEMENTS
• TACKABLE surfaces for student work
• DISPLAY CASES for:
- trophies - awards - rodeo art

site

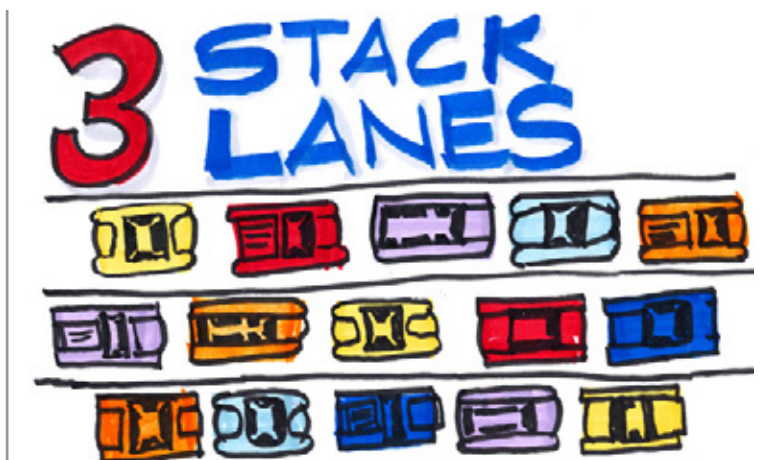


Our new elementary school should be
spacious!

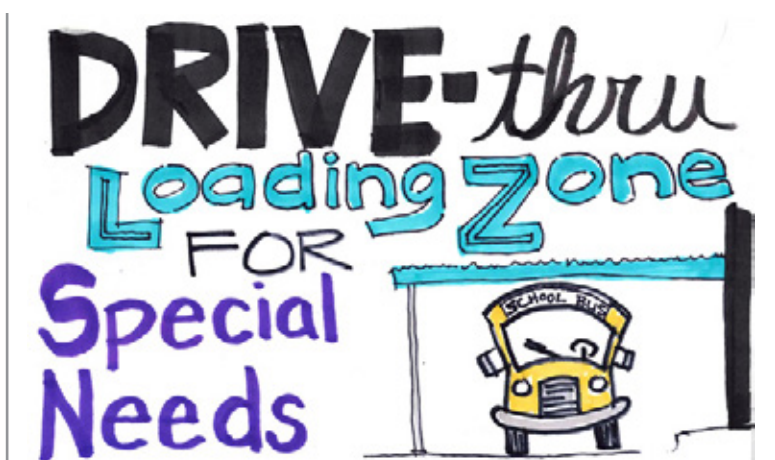
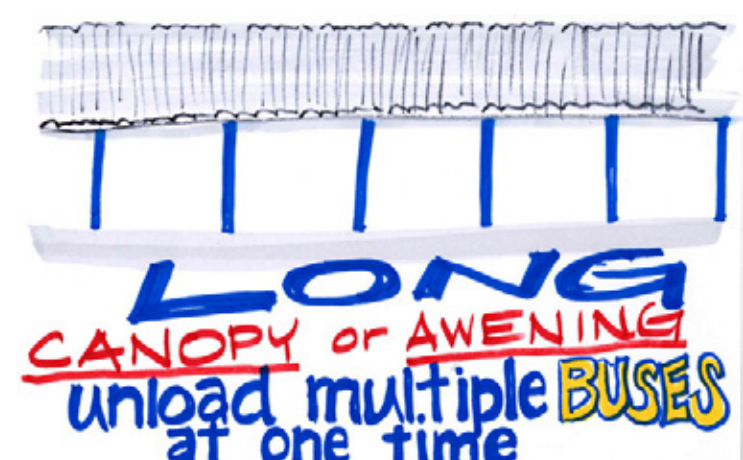
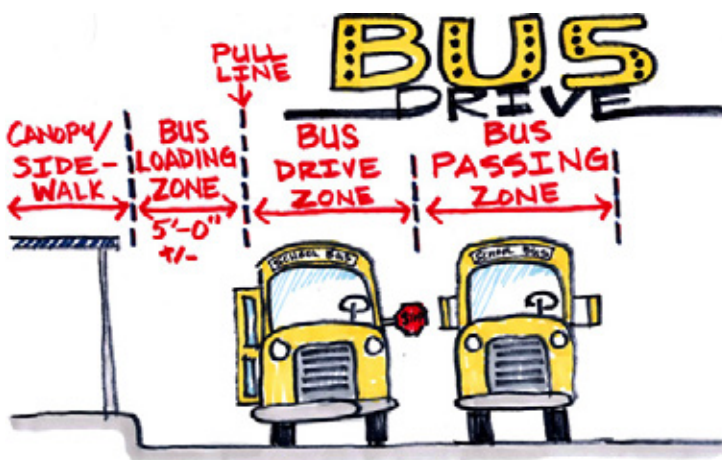




transportation



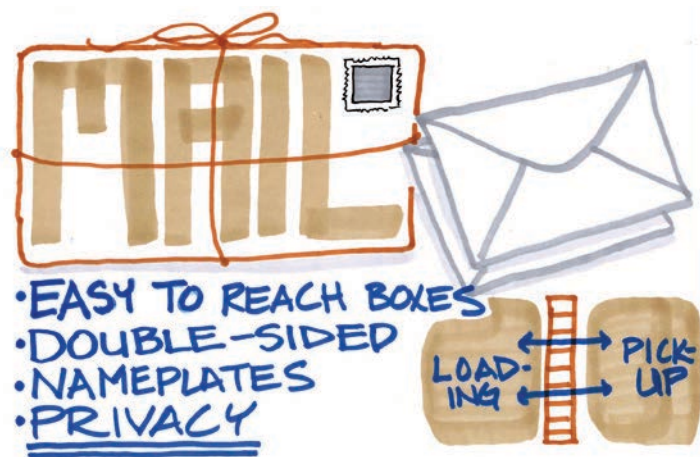
Our new elementary school should have
plenty of parking!



admin

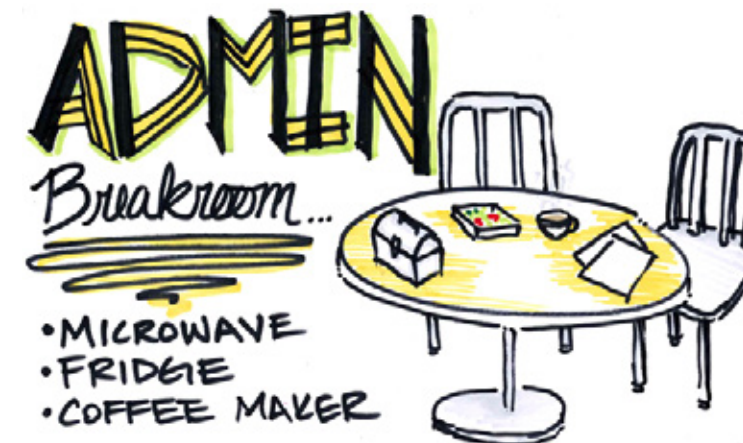
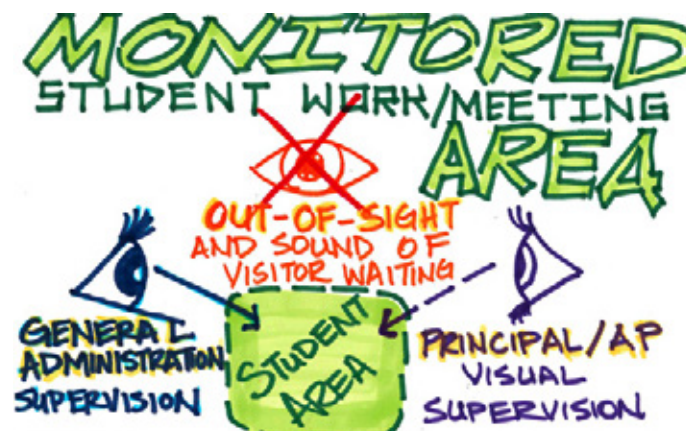
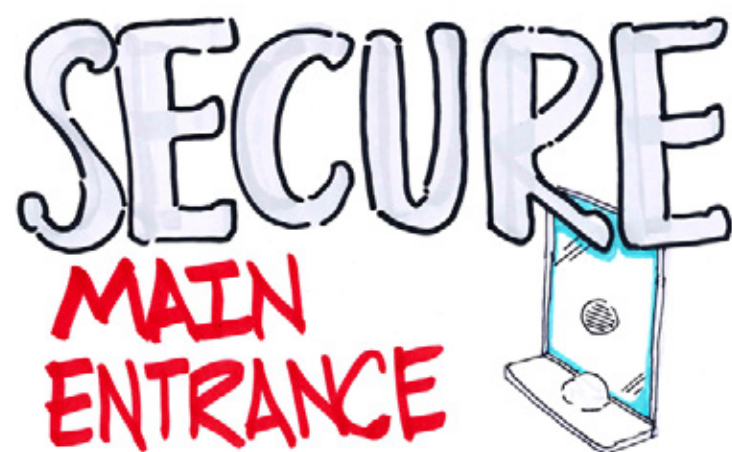
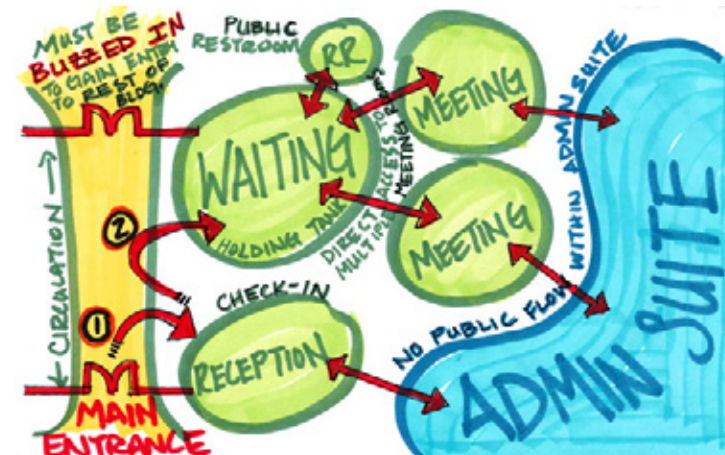
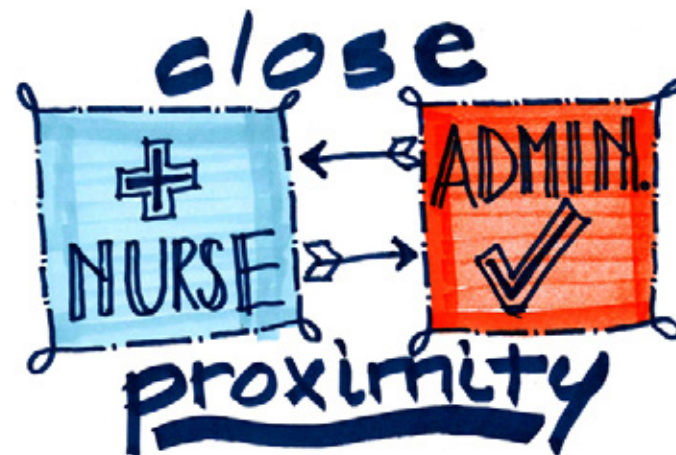
Description	Quantity	Area (sf)	Total (sf)	
Lobby/Security Vestibule/Visitor	1	400	400	
Public Restroom	1	55	55	
Reception/Waiting/ Work	1	450	450	
Records Storage	1	150	150	
Supply Storage	1	90	90	
Workroom	1	150	150	
Mail	1	60	60	
General Storage	1	60	60	
Sub-total				1,415
Principal	1	175	175	
Principal's Secretary	1	155	155	
Principal Conference	1	225	225	
Sub-total				555
Assistant Principal	1	165	165	
Student Holding/ Conference	1	60	60	
In School Suspension	1	335		
Sub-total				560
Attendance/Registrar	1	150	150	
File/Records Storage	1	60	60	
Sub-total				210



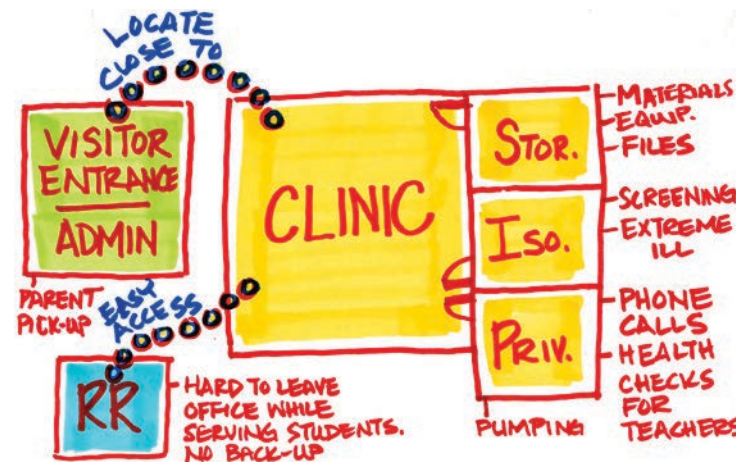
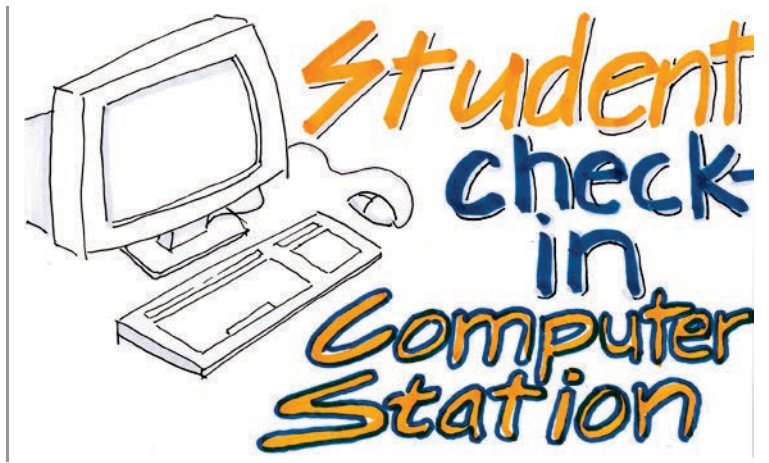
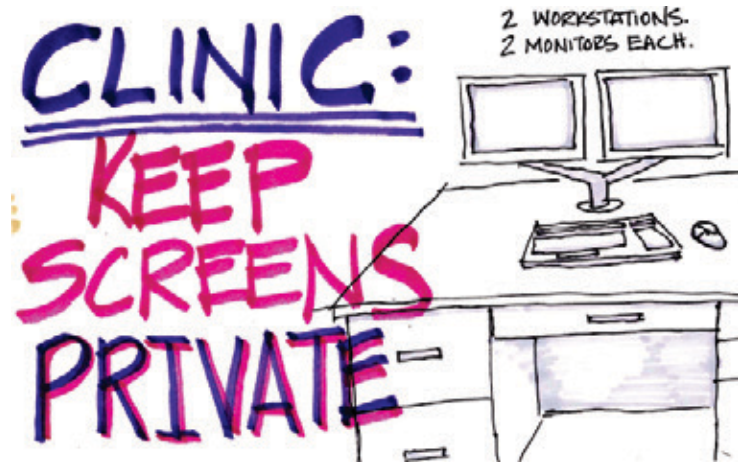
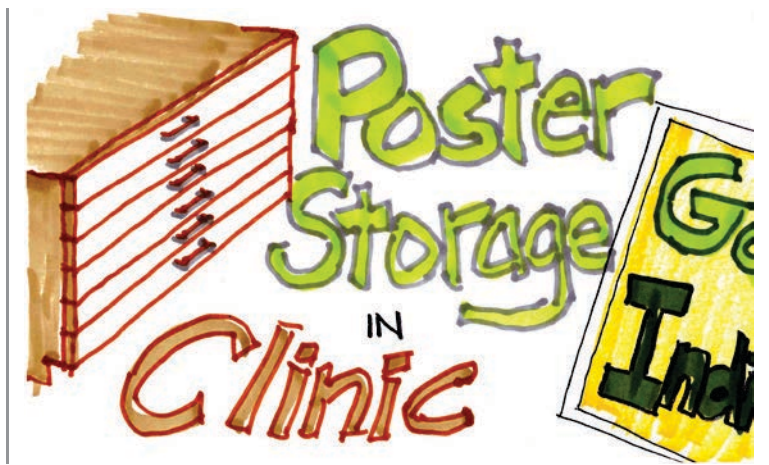
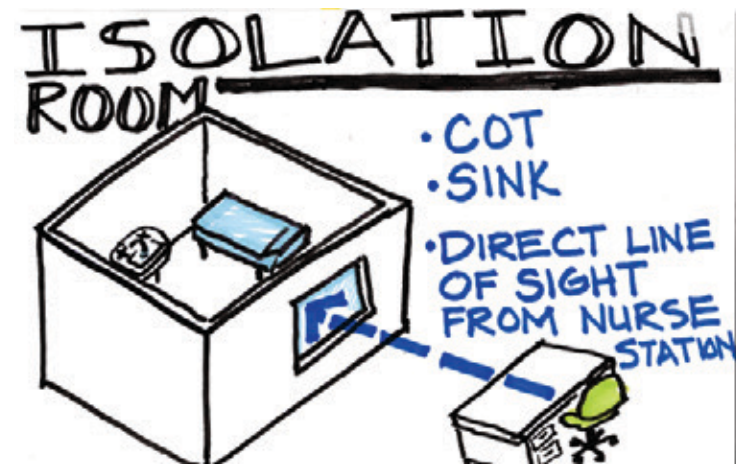


Our new elementary school should be

warm & open!



[illegible]



Our new elementary school should be
welcoming!

counseling

[illegible]

TESTING ROOM

PLEASE CIRCLE THE CORRECT ANSWER:
 A. YES
 B. NO
 C. MAYBE
 D. ALL OF THE ABOVE

Storage

- HANGING - XTRA CLOTHING
- BACKPACK BUDDIES CARTS (~100)



Our new elementary school should be **comfortable!**

CHILL ZONE

- PLACE FOR STUDENTS TO CALM DOWN
- VISUALLY SUPERVISED - NOT IN OFFICE



CONFY SPACE



counseling SUITE

NOT IN OFFICE

- DON'T want kids to feel like they are in TROUBLE

counseling 2 OFFICES

- **PRIVACY** from Play Therapy/PALS
- DESK, file storage shelves
- small meeting table + guest chairs

PALS

- 30 H.S. students + 30 E.S.
- MEET / PLAY GAMES
- CLOSE TO COUNSELOR for SUPERVISION

PLAY therapy NOT IN OFFICE

- storage
- moveable furniture
- carpet or rug
- comfortable seats
- supervise from office



SECURE FILE STORAGE



Soothing colors



PALS ZONE


- COULD BE A SHARED SPACE
- MONITORED BY COUNSELING OFFICE
- STORAGE FOR GAMES/ACTIVITIES
- UP TO 30 HS + 30 ES KIDS @ A TIME

DIMMABLE LIGHTING



SINK

- FREQUENT STUDENT MESSSES




food service

FUTURE
MAY NEED TO
3rd PLAN FOR
SERVING LINE

HOT
Water
AT KITCHEN
CAN WASH

A simple line drawing of a glass filled with water. A slice of lemon with a green leaf is floating on the surface. The glass has a lid that is slightly ajar.

DRY STORAGE



← NO

YES →

L-SHAPED

RECTANGULAR

ROOM SHAPE

Our new elementary school should be **functional!**

Illustration of a wheelchair at a serving line. The text reads: "wheelchair clearances at SERVING LINES".

opposite
side
of
DINING

A hand-drawn diagram of a storage room. The room is a rectangle with a dashed line for the ceiling. The word "TALLER" is written vertically on the left wall, with each letter in a different color (red, blue, yellow, purple, light blue, green). To the right, the words "STORAGE ROOM" are written in light blue, and "ceilings" is written in black and underlined. Five blue arrows point upwards from the bottom towards the ceiling line, indicating the increase in height.

SEPARATE

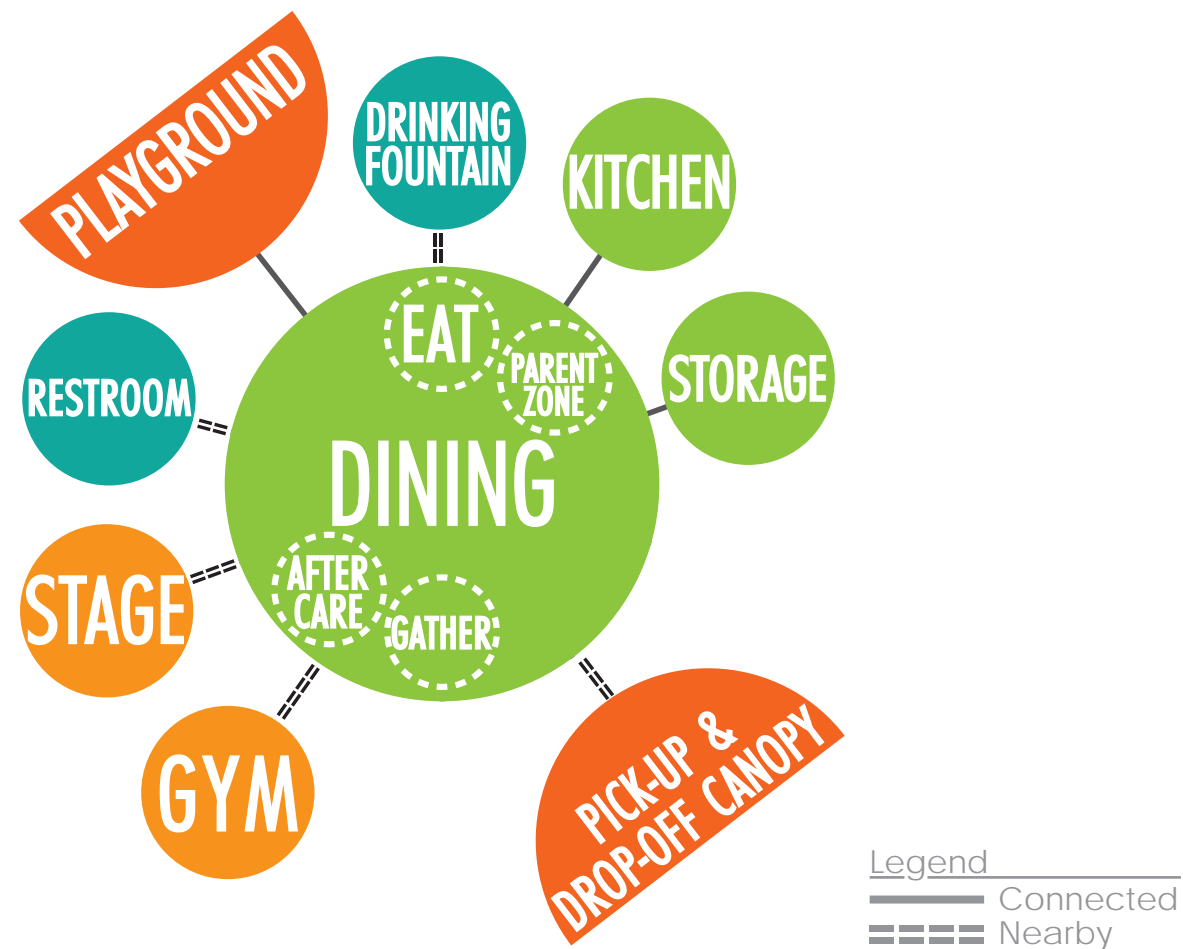
DELIVERY ACCESS

FOOD-SERVICE LOADING

SERVICE YARD

ADULT-sized
Hand-
wash stations

A simple line drawing of a rectangular hand-wash station. It has a curved faucet on the right side. A hand is shown under the faucet, with several small circles representing water droplets or soap bubbles. The station has a drain in the center of the basin.



Feast
DAYS
Room For:
GRADE LEVEL + GUESTS

CAFETERIA

ACCESS

- restrooms
- drinking fountains
- playgrounds



parent
café

A hand-drawn illustration of a 'parent café' setup. It features two armchairs with red and white striped cushions, a small square table with a single leg, and a yellow vase with three red roses on the table. The text 'parent' is written in large, yellow, outlined letters at the top, and 'café' is written in black, outlined letters below it.

STAGE AT DINING

Windows
at



DINING AND
SERVING AREAS

dining

Our new elementary school should be
inviting!

A hand-drawn sign with a light blue background and a red border. The word "DINING" is written in the center, flanked by two yellow circular icons with "HW" inside. To the right of the sign, the text "STUDENT HANDWASH STATIONS" is written in blue, "inside" in red cursive, and "CAFETERIA" in red. Below this, it says "FOR SYRUP DAYS, AMONGST OTHERS!" in blue.

Cafeteria TABLES

- *BENCH STYLE
FITS MORE STUDENTS
- *CONVERTABLE
FLEXIBILITY FOR DIFFERENT FUNCTIONS
- *LOCKING CASTERS FOR SAFETY
- *EASY TO MOVE FOR DAILY CLEANING.

A hand-drawn illustration of several yellow cafeteria tables. Some tables are paired with blue benches. The tables have metal frames, and some of the legs are equipped with casters. The drawing is done in a simple, sketchy style with bold outlines.

Windows
at



DINING AND
SERVING AREAS

[illegible]

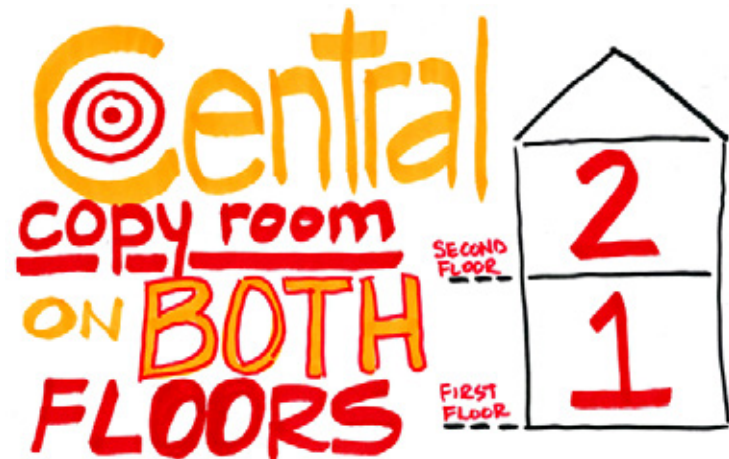
outdoor
Patio
AT
TEACHER
LOUNGE

A hand-drawn illustration of an outdoor patio area. It features a large orange patio umbrella with a black frame, a small square table with a black frame, and a green lounge chair with a black frame. The entire scene is set against a white background.

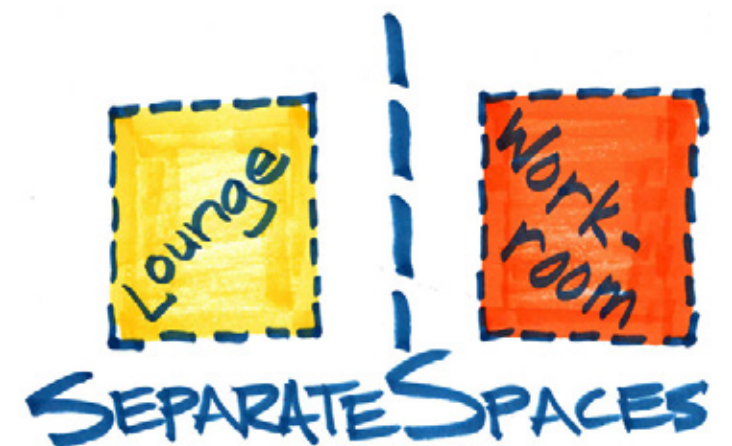


Volunteer Workroom
 • DEDICATED SPACE ADJACENT TO OR WITHIN CAMPUS WORKROOM.

TEACHER Learning SPACES
 • FLEX SPACE - POSSIBLY OPERABLE WALLS
 • BIG ENOUGH FOR 20 PEOPLE



COPIER AND PRINTER
 ACCESS ON BOTH FLOORS



Our new elementary school should be
properly aligned!

Lounge
 • Quiet
 • Comfy chairs
 • BIG sink
 • Lots of Counter Space

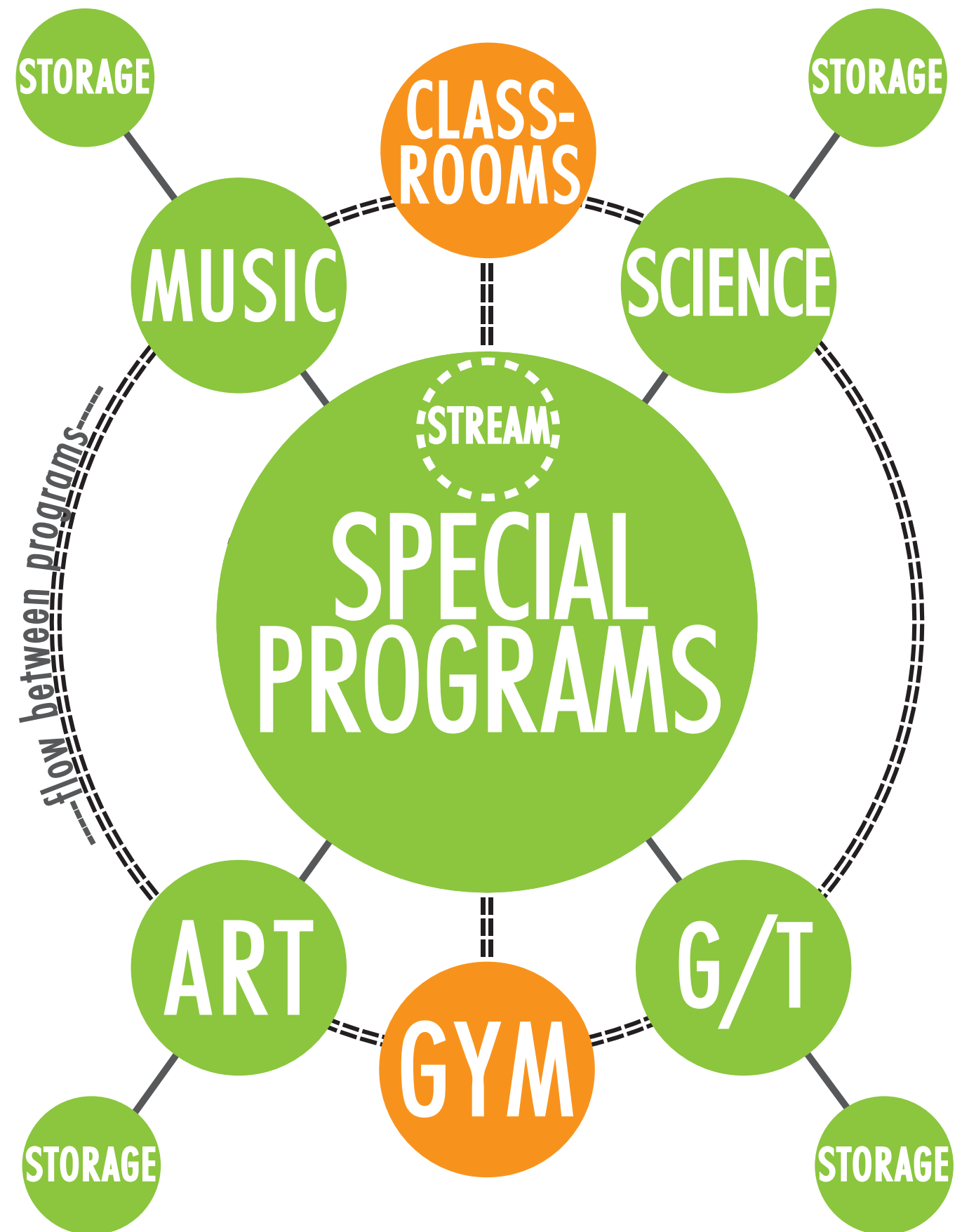


HIGHLY COLLABORATIVE SPACES FOR (PROFESSIONAL LEARNING COMMUNITIES)
PLCs
 • TABLES
 • CHAIRS
 • FLEX

SONIC ICE



special programs

[illegible]

Legend

———— Connected

===== Nearby

practice
STAGE
in **FINE ARTS**
classroom

science
C.R. LAB

TECH
classroom
• FLEXIBLE
• WIRELESS
• LAPTOPS
• LIMIT VACANCY
• "COMPUTING 101"

TRUE
ART
ROOM

STEM
LAB

STEM
LAB

STEM
LAB

ART
storage room
• MATERIALS STORAGE
• WORK SURFACE

Our new elementary school should be
creative!

STAGE
TECH. 1
2 AV
SCREENS
1 EACH SIDE
1 PODIUM
SPEAK AND PROJECT AT SAME TIME

gym
MINIMIZE
Noise Interruptions
DURING
PRACTICES
AND PERFORMANCES
kitchen

BIG enough
MUSIC
room

Fine Arts
IS
NOISY
AND
LIVE
LOCATE AWAY FROM QUIET ACADEMIC AREAS

Rotate
level
class-
rooms
home
base
MUSIC
ART
SCIENCE
P.E.
TECH
QUICK AND
EASY
Flow
BETWEEN
PROGRAM SPACES

GROUP
SPECIALS
TOGETHER
SCIENCE **FINE ARTS** **ATHLETICS**

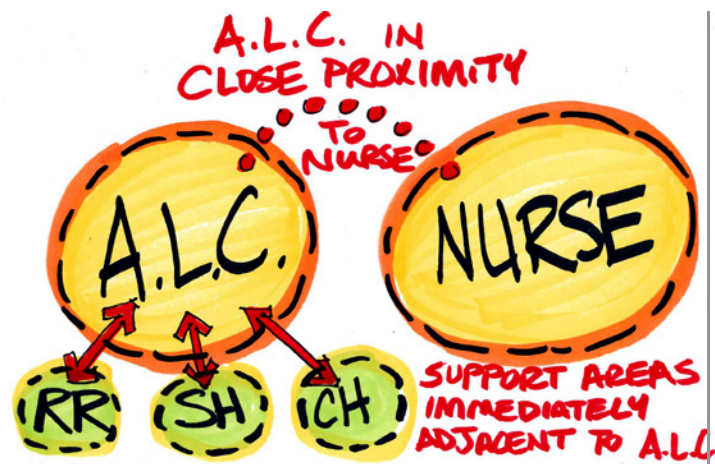
special education

[illegible]

Legend

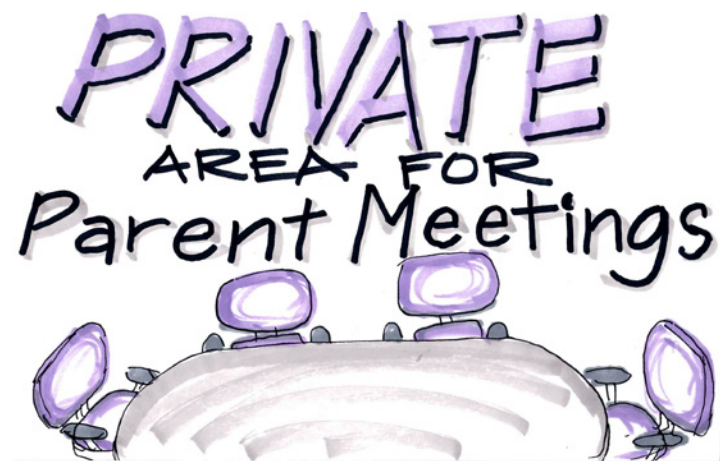
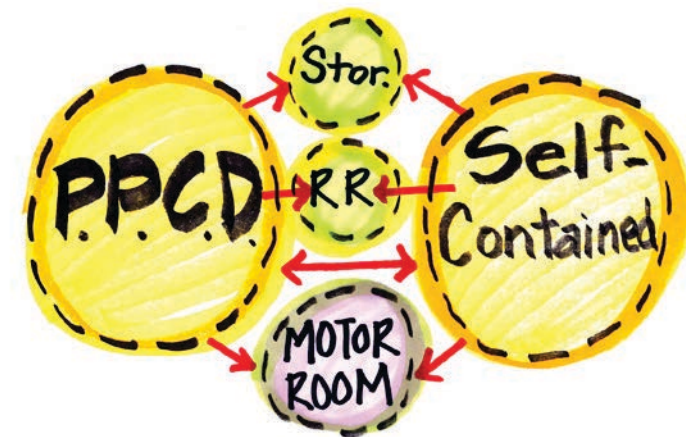
Connected

Nearby



^{ALTERNATIVE LEVELS OF CARE}
A.L.C.
ACCOMMODATIONS

- SHOWER FOR WHEELCHAIR
- CHANGING TABLE
- COOKING AMENITIES



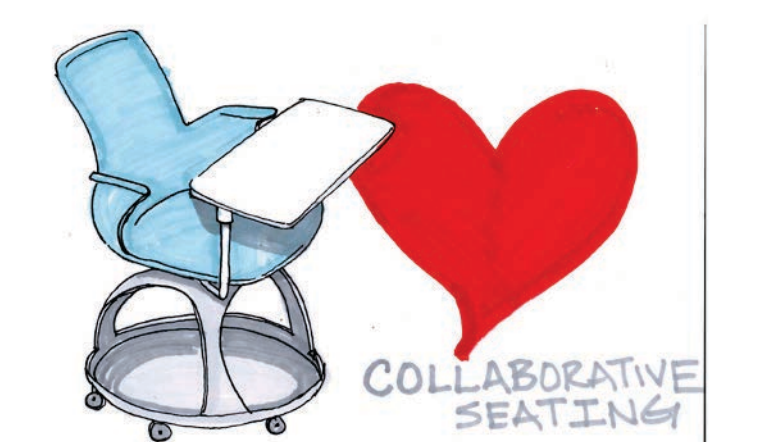
EASY ACCESS FOR...
ALL GRADE LEVELS to...
PULL-OUT PROGRAMS

SPECIAL ED. NEEDS
EARLY DECISION
 ON CAMPUS
GRADE LEVEL
 STRUCTURE

Our new elementary school should
innovate!

NO Special Education **POD**

library

[illegible]

Our new elementary school should be a
smart school!

18,000
volumes

ALL
AREAS
VISIBLE
supervision




MAKER
SPACE



01011010010001

MOBILE
BOOK-SHELVES




ABILITY
2
FLEX

NO *need visibility*
WALLS

ALLOW library functions
to be
NOISY!
• PROVIDE SEPARATE SPACES
FOR TESTING + INTERVENTION
FUNCTIONS TO HAPPEN

Our new elementary school should be
spacious!

MORE
DISPLAY
OUT OF
SIGHT
OUT OF
MIND




MORE
ZOWIE

small
group




- LESSONS
- COLLABORATION
- FLEXIBLE

\$ecure
\$torage



- BOOK SALES
- LOST BOOKS

Kiva



- FLEXIBLE
- INTIMATE
- ACCOMODATE
1 GRADE
LEVEL

LIBRARY
Workroom

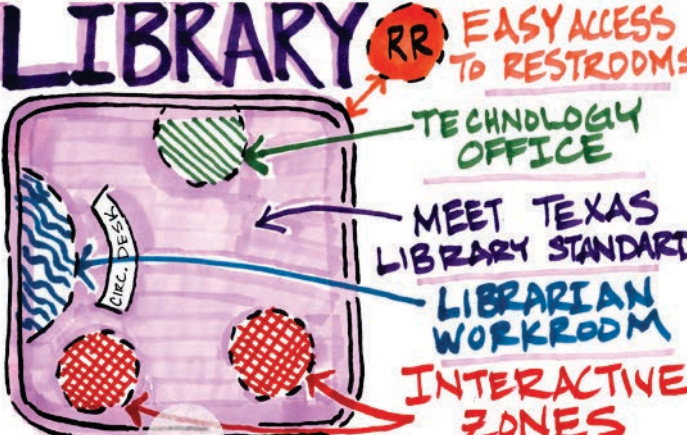
- visibility to library
- sink
- poster storage
- worksurface / island
- secure storage / tech
- teacher sets + CDs

LIT. LIB
LIBRARY



- CENTRALLY
LOCATED
- ADJACENT TO
LIBRARY?
- 2 ENTRIES
- LOTS OF SHELVING
- LITERACY STAFF
SUPERVISION

LIBRARY

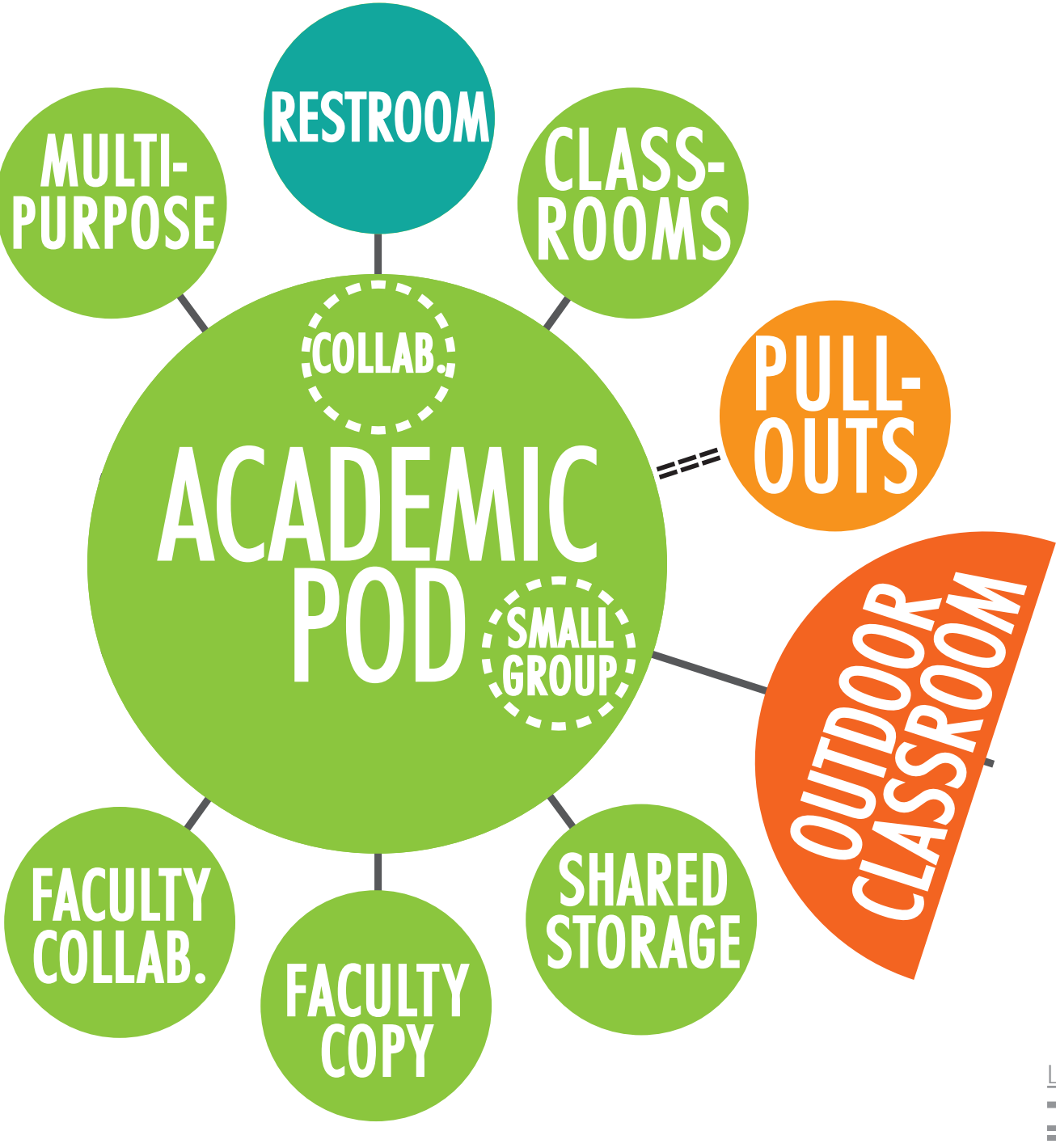


- EASY ACCESS
TO RESTROOMS
- TECHNOLOGY
OFFICE
- MEET TEXAS
LIBRARY STANDARD
- LIBRARIAN
WORKROOM
- INTERACTIVE
ZONES

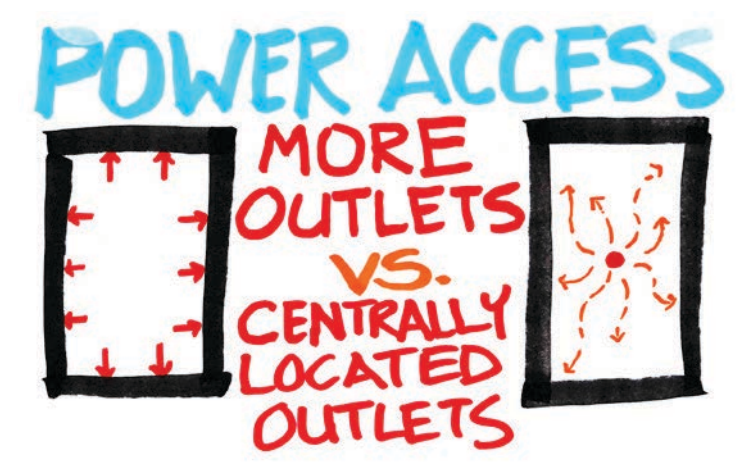
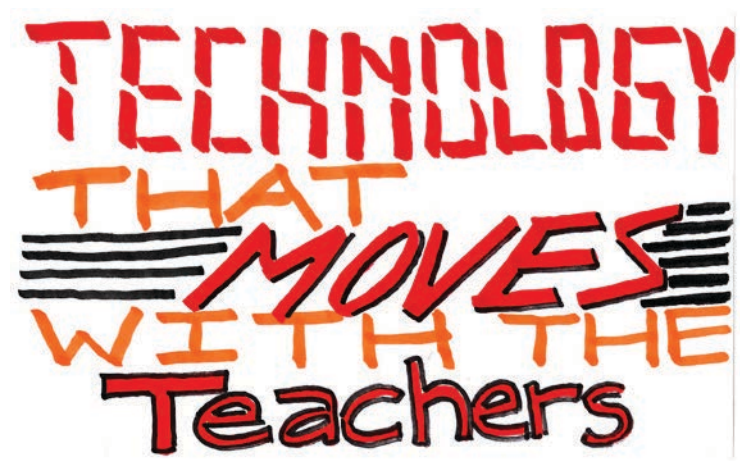
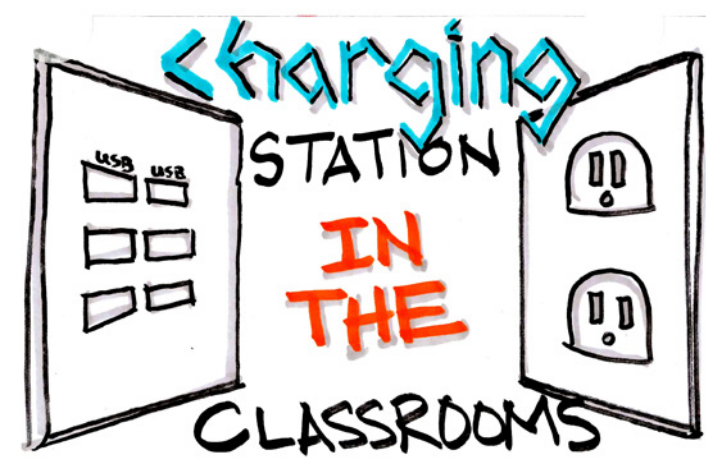
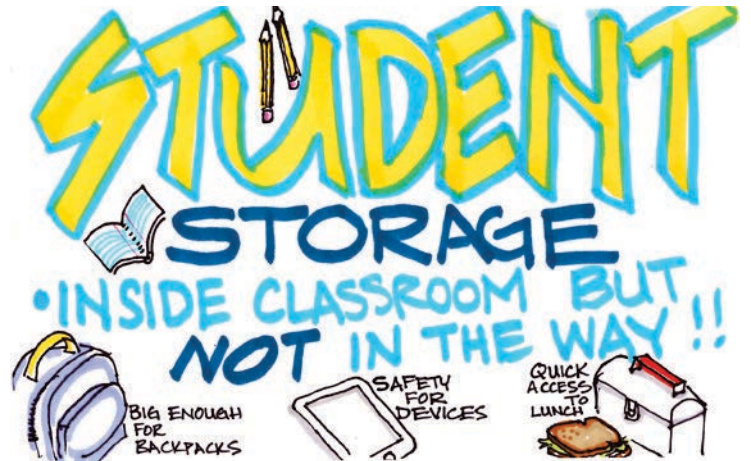
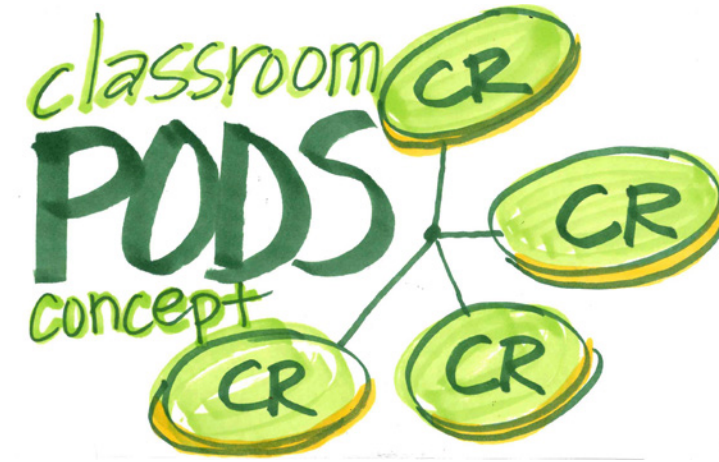
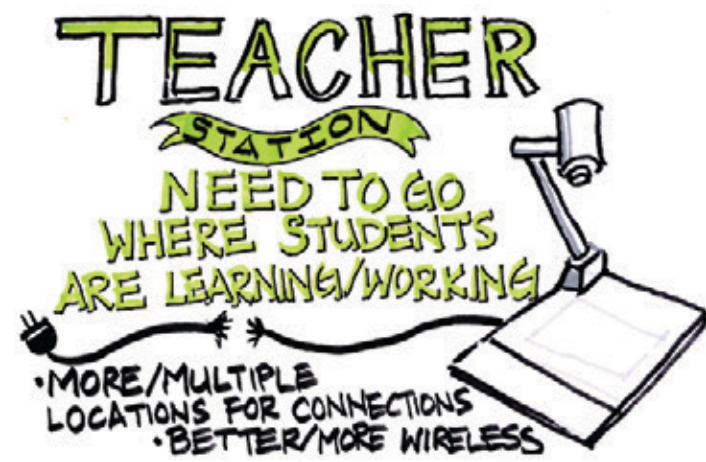
instruction

Final grade structure may vary from grade levels indicated below.

Description	Quantity	Area (sf)	Total (sf)	
Pre-K/Kindergarten Classrooms	7	800	5600	
Pre-K/Kindergarten Restrooms	4		360	
First Grade Classrooms	6	800	4800	
Second Grade Classrooms	6	750	4500	
Third Grade Classrooms	6	750	4500	
Fourth Grade Classrooms	6	750	4500	
Fifth Grade Classrooms	6	800	4800	
Workroom / Small Group	15	100	1500	
G/T	1	750	750	
Collaboration Space	6	875	5250	
Sub-total				36,560
Faculty Collaboration	6	275	1650	
Instructional Storage	6	150	900	
Textbook Storage	2	225	450	
Faculty Restroom	6	55	330	
Student Restrooms	10	210	2100	
Custodial	6	60	360	
Sub-total				5,790



Our new elementary school should be
flexible!

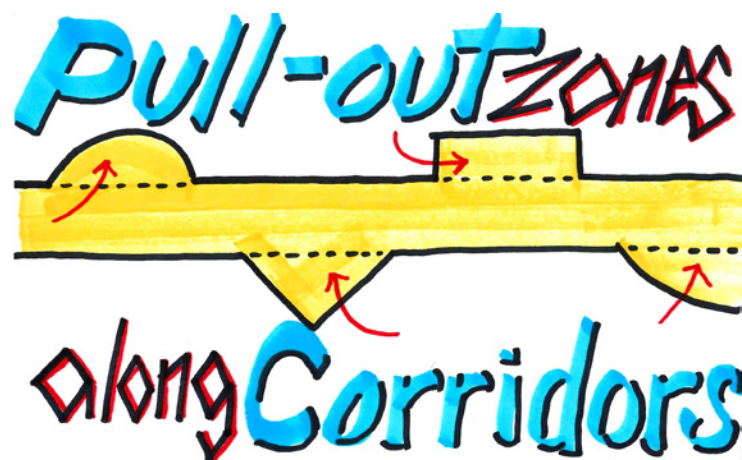
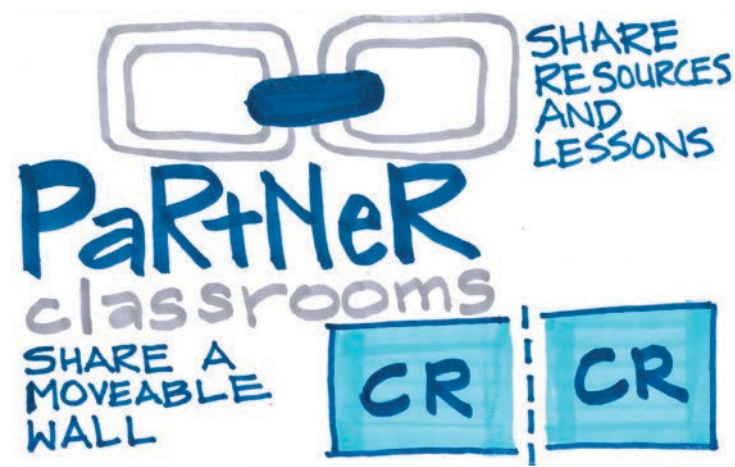
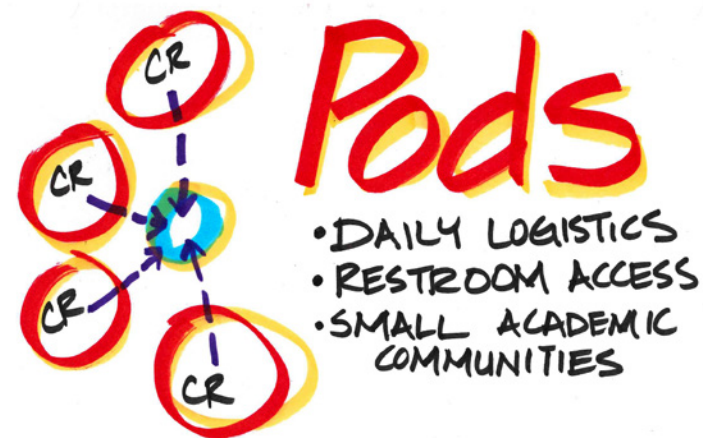


instruction

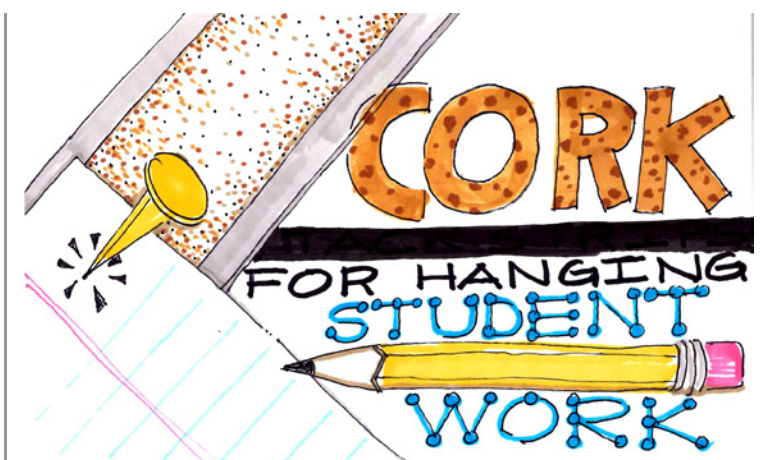


Our new elementary school should be

student centered!



FLOORING OPTIONS	VCT	HARD SURF.	LINOLEUM	OTHER	HARD SURF.	OLD CARPET	TODAY'S CARPET
NOISY	✓	✓	less	✓	✓	✓	✓
CLEANABLE	✓	✓	✓	✓	✓	✓	✓
DURABLE	✓	✓	✓	✓	✓	✓	✓
NOT SMELLY	✓	✓	✓	✓	✓	✓	✓
NO WAX	✓	✓	✓	✓	✓	✓	✓



A PLACE
to leave
Student Stuff

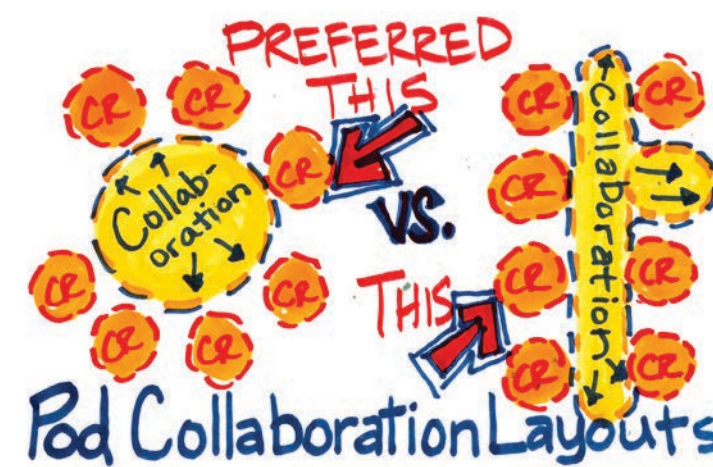


STAGE
@ GYM

TEACHERS
WANT
INTER-
ACTIVE
Dry
ERASE



PREFERRED
THIS
VS.
THIS
Pod Collaboration Layouts

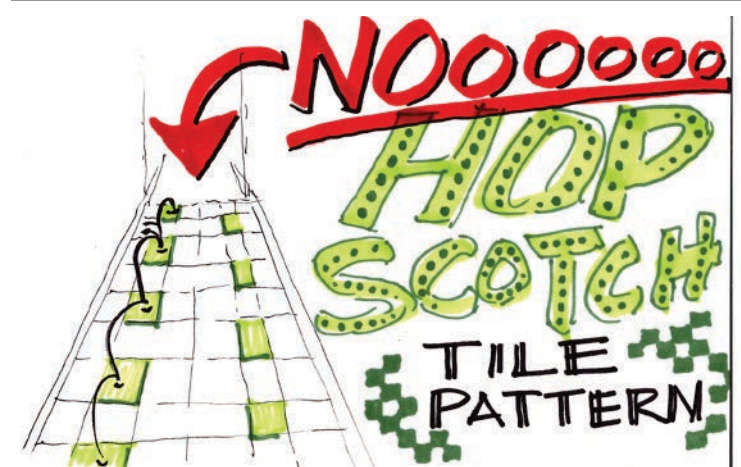


Our new elementary school should be
student driven!

SIZE
MATTERS
PROPERLY
SIZED
FURNITURE



NOOOOOO
HOP
SCOTCH
TILE
PATTERN



NO HOPSCOTCH TILES



WALK THE LINE

~~Student lockers~~




NO
muscle
REQUIRED



OPERABLE
PARTITIONS THAT ARE
EASY TO MOVE

Print
Center
@ ea. Pod

IN-CLASSROOM
STUDENT
STORAGE



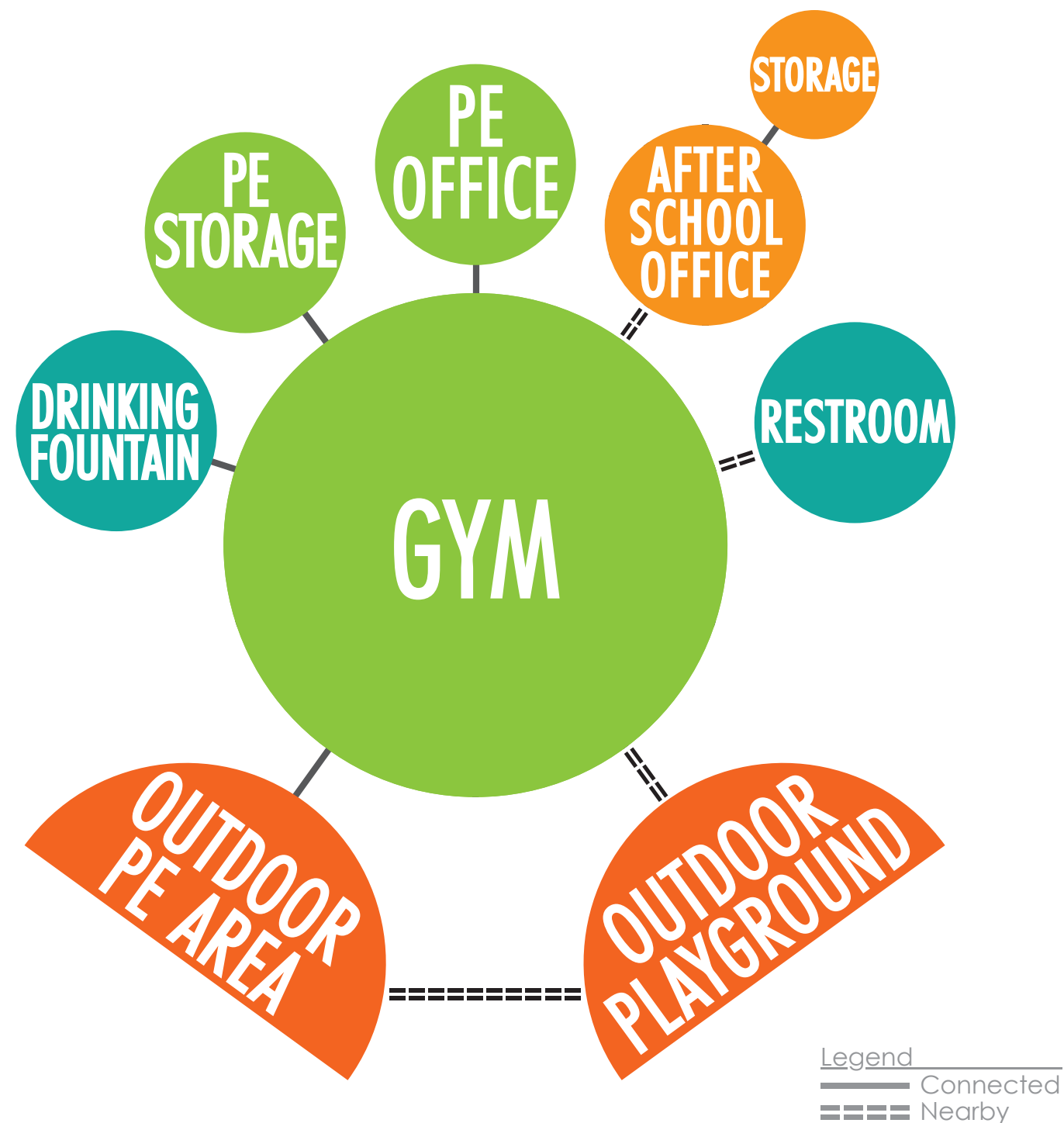
- cubbies
- locate close to front door
- don't disrupt classroom function

BIGGER
kids need
BIGGER
classrooms

restrooms
in Kinder-
garten
Only!




gym

[illegible]

Our new elementary school should be
fun & safe!

Stationary BIKES

- FOCUSED INDIVIDUAL ACTIVITY
- OFF OF GYM-VISUAL CONNECTION

A simple line drawing of a person riding a stationary bike. The person is wearing a red cap and a white shirt. The bike has a large front wheel and a smaller rear wheel. The person's legs are in a pedaling motion.

Natural Light

- continue program even when power is out

SEPARATE
GYM ZONE

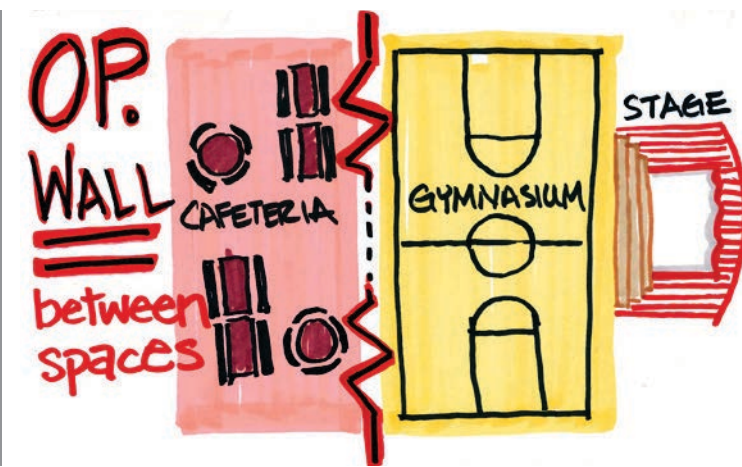
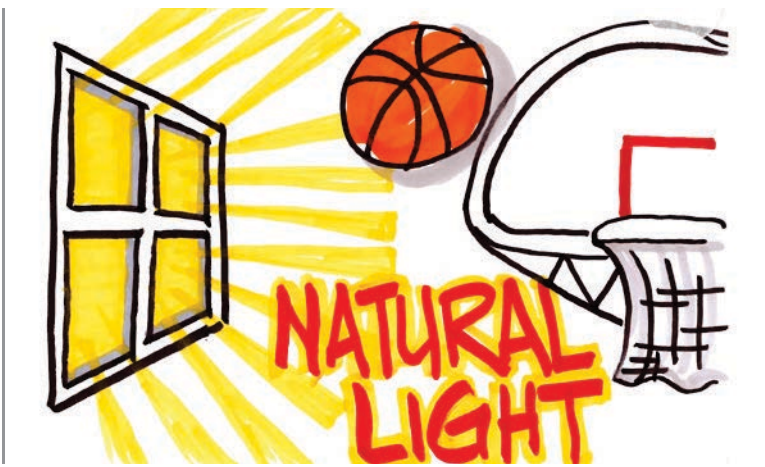
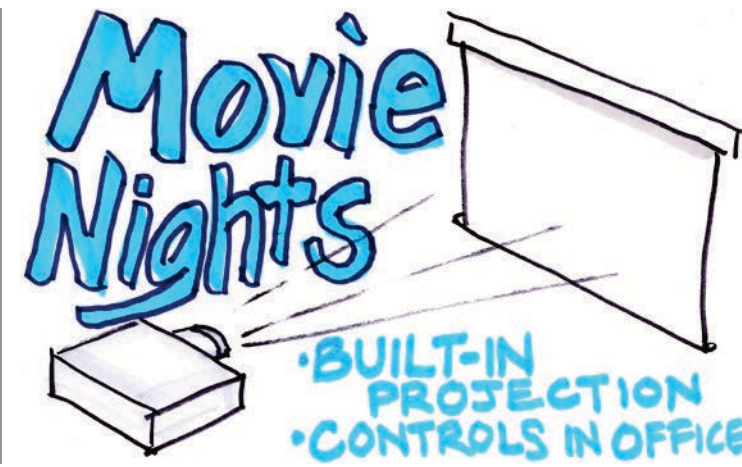
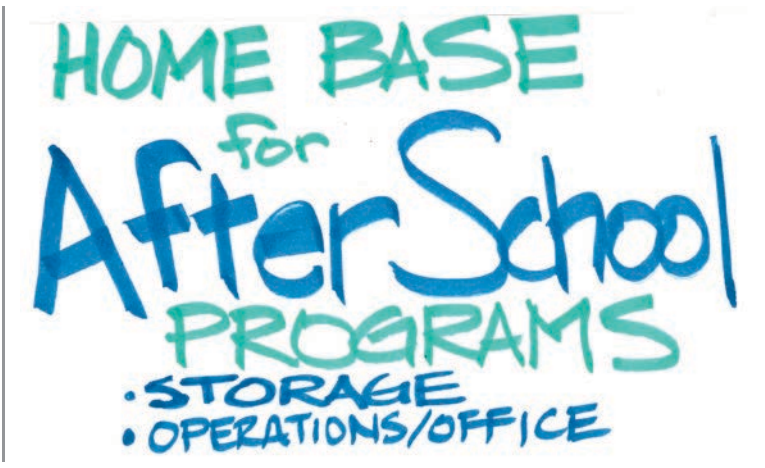
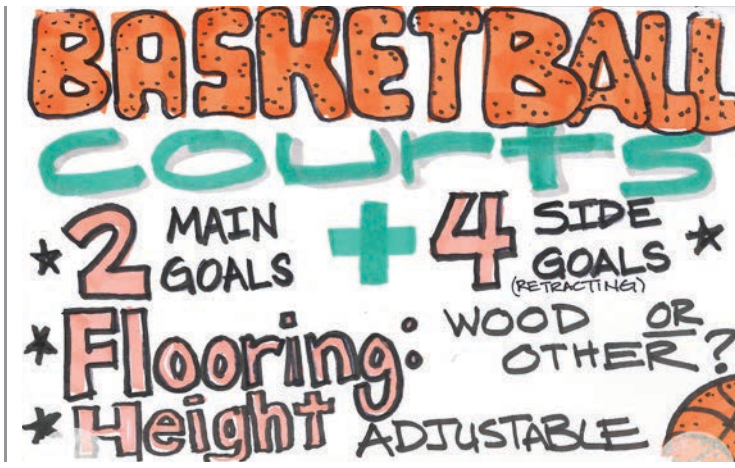
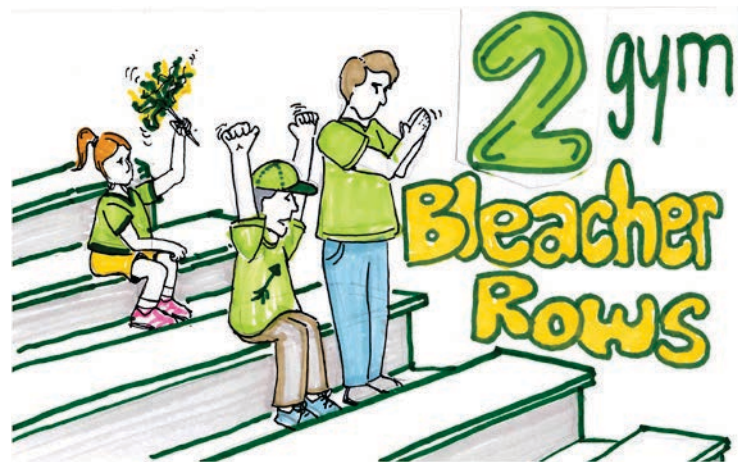
REST OF SCHOOL

GYM ZONE

FOR AFTER-SCHOOL
PROGRAMS

Immediate
access to
restrooms!

NO CODE YELLOW
NO CODE BROWN



safety

easy
LOCKDOWN
PROCEDURES




ISOLATE
Visitors
IN 1 AREA
OF BUILDING

OUTDOOR
SPACES
AWAY
FROM ROADWAYS




(pretty)
BOLLARDS
PROTECTING
BIG
WINDOWS



Our new elementary school should be
secure!

TRAFFIC
control

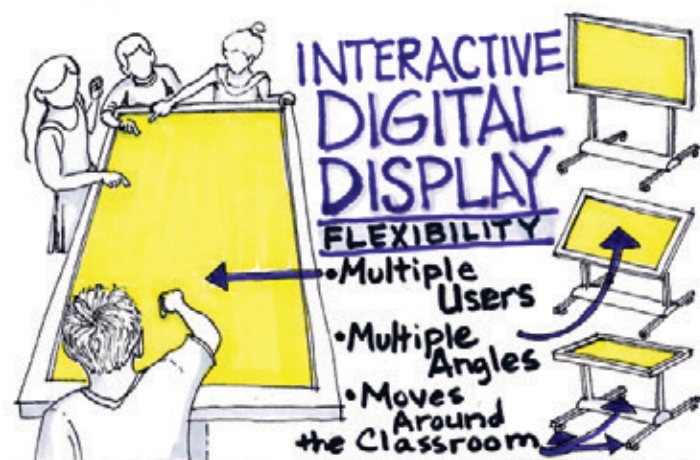


SECURE
Vestibule
CONTROLLED
ENTRANCE INTO BUILDING



PRIVACY
ZONE
SHARED
WASH ZONE
CIRCULATION
RESTROOMS
SINK
SUPER-
VISION

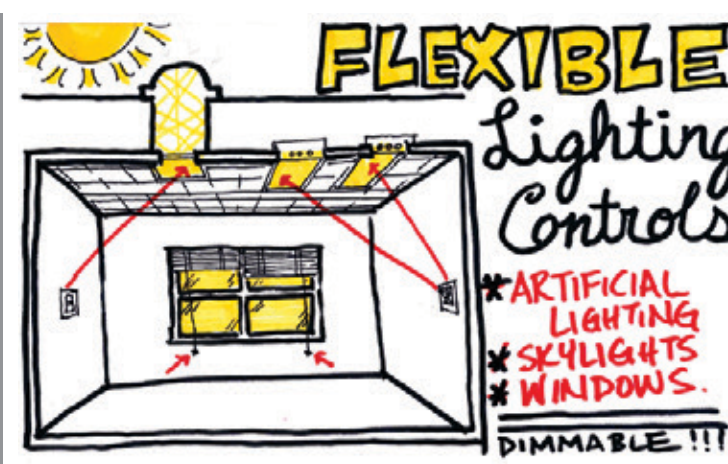
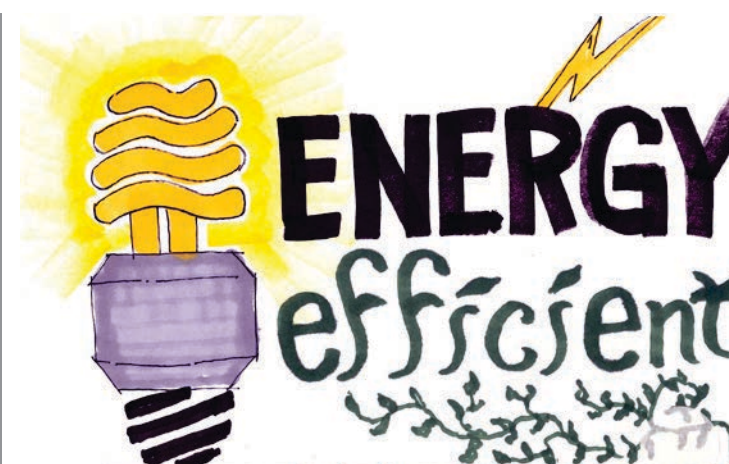
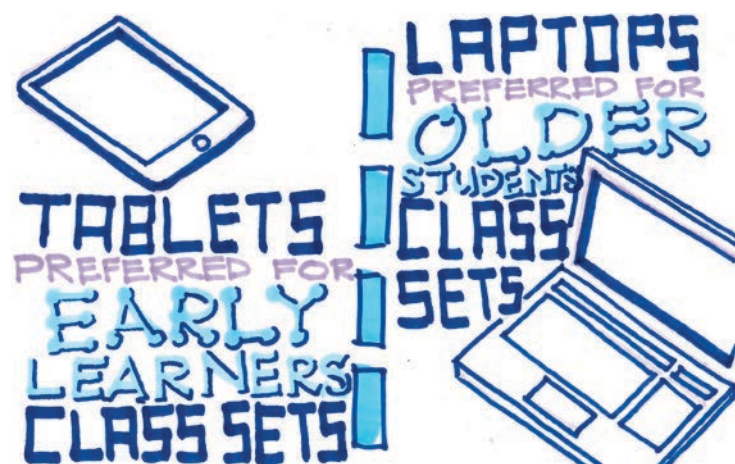




1:1
DEVICES

technology

Our new elementary school should be
technology rich!



facilities and operations

Description	Quantity	Area (sf)	Total (sf)	
Central Receiving	1	200	200	
Custodial/Storage	1	225	225	
Custodial Workroom	1	200	200	
Custodial Laundry	1	65	65	
Recycling	1	50	50	
Furniture/Equipment Storage	1	125	125	
Exterior Equipment Storage	1	100	100	
Sub-total				965
Mechanical	1	2400	2400	
Electrical	1	900	900	
MDF	1	250	250	
IDF	3	100	300	
Sub-total				3,850
Elevator	1	80	80	
Stairs	5	180	900	
Sub-total				980
Bus/Auto Canopies**	1	800	800	
Sub-total				800

SUMMARY OF BUILDING AREA			
Total Net Building Area	80,680		
Factor - Walls/Circulation:	29,852		
Total Gross Building Area	110,552		



Our new elementary school should be
environmentally friendly!



casters
"R"
COOL!



central
STORAGE
~6 MACHINES
BUILDING SUPPLIES

NO...
NO...
NO...
**NO
WAX!**

custodial

BUILT-IN
WALK-OFF MATS

WELCOME


Our new elementary school should be

sparkly!

SATELLITE
custodial
closets

- 1 PER ACADEMIC Pod
- GYMNASIUM
- CAFETERIA
- FLOOR SINK
- CART W/ CLEARANCE
- CHEMICAL STORAGE
- EASY ACCESS

EQUALLY SPACED



custodial

MAIN STORAGE
• Supplies
• machines

DINING
• Staff eat lunch

RR
• lockers
WASHER/ DRYER
• residential size

OFFICE
• receiving


clean-
able
WALLS



dumpsters
NEAR
building



EVENLY SPACED
Electrical
FOR
CUSTODIAL
EQUIPMENT



Light-
Weight
Furniture

building systems meeting notes

HSFE17: Santa Fe ISD New Elementary School

April 6, 2017, 8:30-11:30am
Charrette Meeting
SFISD Training Room 3 - ESC

Present:

1. cre8: Jerry Bevel, Amber Moncla
2. SFISD: Bob Atkins, Kurt Kovacevich, and several others
3. CMTA: Mark Seibert, Greg Gehrt

Items Discussed:

1. Bob Atkins - Maintenance Director:

- a. Discussed integration of roof and condensate system. Looking for 30-40 yr life on roof.
- b. Energy efficient systems are desired
- c. Desire to make ID badge the ultimate "key" to building, full BAS control of building
- d. Full integration of HVAC, Security, Lighting, Intrusion Detection, etc.
- e. Scanning of badge controls door entry, lighting, HVAC, etc.
- f. Biometrics or phone scanning to interact with intrusion detection as second layer of protection
- g. All lighting will be LED with dimming control
- h. Desire to have ability to adjust color temperature
- i. Need tight humidity control
- j. Card readers on every security door
- k. A pressure wash system is used to clean bathrooms, need to look at how much moisture this produces to the environment.

2. Kurt Kovacevich - Technology Director:

- a. ClearTouch Interactive boards - the first is arriving on campus April 13, consider for use in new school.
 - i. Operates wirelessly, only needs power from wall
 - ii. Completely mobile, lays down, and can raise/lower to various levels
 - iii. 10 users at interactive board at one time
 - iv. Intent is to replace projectors; no projectors being planned for new school

3. Notes from the core committee:

- a. Bubblers in sinks
- b. Ability to do art at any sink
- c. Restrooms in Kindergarten only
- d. Lots of notes about group activities

4. Teachers' requests

- a. More electrical receptacles in classrooms; don't need receptacles next to sinks
 - i. Receptacles for laptops and charging personal devices
 - ii. Consider floor receptacle for ClearTouch Interactive board
 - iii. Use USB charging stations in lieu of traditional receptacles
- b. Two tables of computers per classroom
- c. Need more storage of technology devices
- d. Need copy machine readily accessible to teachers; workroom on each floor
- e. Discussed temperature sensor controls at each classroom; teachers want some control, maintenance staff does not want teachers to have control

5. Maintenance requests:

- a. Full integration of systems
- b. WiFi in mechanical rooms and chiller plant for diagnostics during troubleshooting
- c. Need accessible electrical receptacles in mechanical rooms
- d. Need hose bibbs in mechanical rooms
- e. Need better lighting in mechanical rooms to clean units
- f. No Zurn flush valves or faucets!
- g. Manual flush valves on water closets and urinals, not sensor valves
- h. Maybe sensor faucets but 120V
- i. Hand dryers and not paper towels? Discussed the Dyson system
- j. Hand dryers may be too loud in restrooms at classrooms
- k. Considering pod restrooms per grade level in lieu of restrooms at classrooms

April 6, 2017, 11:30am-1:00pm
Meeting with Maintenance Staff
SFISD Training Room 2 - ESC

Present:

1. cre8: Sergio DeJesus
2. SFISD: Bob Atkins, Kurt Kovacevich, and others
3. CMTA: Mark Seibert, Greg Gehrt

Items Discussed:

4. General:
 - a. SFISD does not have any published MEP design standards.

- b. SFISD does have IT design standards.
- 5. Site Utilities:**
 - a. Pad-mount utility transformer is preferred.
 - b. CenterPoint Energy territory for both electricity and gas service, currently there is not gas at the proposed site.
 - c. No satellite or CATV is required for building
 - d. Frontier (formerly Verizon) is the current telephone provider
 - e. WCID #8 is the water MUD
 - f. Provide exterior receptacles on the building as well as water hose bibbs
 - g. Desire water and drain at dumpster location
- 6. Fire Protection**
 - a. City of Santa Fe Fire Marshal is Tony Danphine, part-time position, good relationship with SFISD
 - b. Semi-recessed sprinkler heads preferred, white colored
 - c. Fire alarm devices - prefer white colored with red lettering
- 7. Emergency Generator** - desired for egress lighting, freezer/coolers, and specific IT equipment
- 8. Exterior Lighting**
 - a. Prefer metal poles on concrete bases; however, may consider direct buried concrete poles
 - b. Exterior lighting should be controlled by BAS
 - c. Will consider dark campus/dark school
 - d. No lighting required at flag pole
 - e. Marquee sign will be full color LED
- 9. Plumbing**
 - a. Faucets manufacturer - Chicago faucets, Moen Commercial; NO Zurn
 - b. Flush valves manufacturer - diaphragm design, Sloan or Zurn
 - c. Porcelain china - Kohler is preferred, will accept Toto; do NOT provide American Standard or Zurn
 - d. Provide manual flush valves for water closets
 - e. Prefer metering faucets on lavatories; prefer no battery operated sensors
 - f. Wrist blades on faucets for staff areas or other non-kid zones
 - g. Provide cold, hot, and tempered water loop; provide 120F water in kitchen with a booster heater at dishwasher
 - h. Do not use point of use instantaneous water heaters
 - i. No manufacturer preference for water heaters
 - j. Wall hung water closets requested; juvenile type water closets may need to be floor mounted but would like to avoid if possible.

- k. SFISD does not have any chase access requirements at the gang restrooms
- l. Provide standard faucets with wrist blades in break rooms
- m. Prefer T&S faucets for kitchen and custodial areas
- n. Provide hose bibb with vacuum breaker at janitor's areas for chemical cleaning system; prefer molded stone type janitor's sink
- o. Provide plaster trap at classroom sinks if they could be used for art classrooms
- p. Floor drains in all restrooms to be provided with trap guards; floor drains in mechanical rooms and kitchen will have trap primers
- q. Provide cleanout at the end of every line, maximum 100 feet between cleanouts; floor cleanouts are acceptable with brass covers
- r. PEX piping is acceptable if provided with lots of isolation valves; need the ability to isolate each individual restroom including isolating boy's from girl's.
- s. No flat venting is allowed; if it is required in certain specific areas, there must be a cleanout in an accessible location
- t. Prefer Gundfos recirculating pumps, would also consider B&G pumps
- u. Use Type L hard copper piping only, not Type M.
- v. Use lead roof flashing
- 10. HVAC**
 - a. No manufacturer preferences "as long as it is not McQuay"
 - b. DDC vendor preferences are Climatec, DAC, and Unify
 - c. Wants full automation with security system
 - d. Do not want Automated Logic due to recent reputation
 - e. Considering chilled water with VAVs but may consider heat pumps
 - f. School will be operated 4 hours a day, 4 days a week during the summer
 - g. The school will not operate on weekends except the gym
 - h. Gym will be rented out to outside groups on the weekends
 - i. MDF and IDF rooms will be conditioned
- 11. Electrical**
 - a. Preferred manufacturers are Square D and Cutler Hammer
 - b. Utilize bolt-in breakers
 - c. Prefer digital readouts of surge happenings on SPD's

- d. Generator preferred manufacturers are Cummins and Kohler
- e. Provide SPD at main service and at panelboards serving receptacles
- 12. Fire Alarm**
 - a. Manufacturer should be Notifier, installed by Firetron
 - b. Provide covers on all pull stations
 - c. Provide white devices with red lettering
- 13. Public Address System**
 - a. Rauland is the current manufacturer used on all campuses
 - i. Phones in classrooms
 - ii. Speaker and talk back, no push button
 - b. Teachers want ability to talk from classroom to classroom, don't know if that is intercom, PA, or actual phone ability
- 14. Security CCTV**
 - a. Cameras will be OFOI, data drop only in contract
- 15. Access Control**
 - a. Currently have S2 throughout campuses but may be changing to be through the BAS
 - b. Consider access control on all classroom doors
- 16. Intrusion Detection**
 - a. Bosch is the current manufacturer, may integrate through BAS with biometric readers
 - b. Motion detectors required in classrooms, sense both heat and motion
 - c. Ceiling mounted motion detectors inside exterior doors
 - d. Door contacts at all exterior doors
 - e. Glass break sensors are not required.
- 17. Lightning Protection**
 - a. A system is preferred but is currently not installed on any existing building in SFISD
- 18. IT/Technology**
 - a. Need to set up another meeting to discuss requirements
 - b. Run 18/4 or 22/4 for HVAC wiring instead of 18/2 or 22/2
 - c. Color code all data cabling
 - d. Cat 5E to POE access control and lighting (Cree)
 - e. Cat 6E for other data, long runs may require shielded and augmented cable
 - f. J-hooks required at 5 foot o.c.

2027 EXERCISE: WHAT WILL EDUCATION LOOK LIKE IN 10 YEARS?

On April 6th, at the conclusion of the Programming Week, a core team of representatives were transported to the future! 10 years from now in 2027, we discussed how schools, students and teachers may have changed and how they may remain the same. In this playful and thought-provoking discussion, we were able to make some predictions that assist in defining goals during the design process. Ideas and Concepts were captured as follows:

2027 Students:

- Students are deeply entrenched in the Virtual world and have an increasing need for improved Social Connection and in-person **Communication Skills**.
- As students are becoming more globally connected and aware, they are seeking more direct relationships between curriculum and real-world application. **"Information-seekers"**
- Most students don't require instructional introduction to digital technologies, but direction on when to use each technology to fulfill need.

2027 Instruction:

- Elementary instructional goals have not changed a great deal, but **delivery** has responded to the need to connect with students that are digital natives.
- Students require their instruction to be **Quickly Responsive** and relate best to Hands-on Interaction & Teaching. Highly Visual Experiences connect curriculum with relatable context.
- There is an increase in **diversity** of instruction through more specialized programs with emphasis on vocations and industry.
- Students and teachers are continuously connected by the **"Blog Method"** of Learning.
- Directing students to **technological tools** becomes a valuable piece in instruction delivery.
- Assessment is split between online testing and hands-on task evaluation, in lieu of the former one-size-fits-all Scantron testing.
- Student-lead instruction** is not uncommon in today's educational environments. Curriculum content delivery is often delivered at home through on-demand through digital tools. Schools now become a place for research, collaboration and exploration of ideas.

2027 Teachers:

- The digital evolution is allowing for **Globalized Team Teaching**. Training is just as important now, but receiving training is more available due to digital accessibility.
- Teachers have always been and still need to be **Flexible** enough to Evolve Along With the Students' Needs.
- Graduates of 2017 are now the Teachers of 2027.
- Teachers are media gurus with the knowledge base to deliver instruction online and are 2017's equivalent of **"YouTube Stars"**.

2027 School:

- The landscape of the Santa Fe Community has changed from Rural to **Suburban**, with many commercial resources moving into the area. Local industry has become involved with our schools, sponsoring a more diversified, real-world curriculum. The student population has become more diversified economically and socially.
- The school's physical environment is constantly evolving in response to student comfort and teaching styles. With more hands-on instruction, comes the need for **transformative spaces** more akin to laboratories than the classrooms of the past. These spaces are apt to cater to smaller student focus groups than large group lecture-style instruction.

facility visits with Santa Fe ISD

24 april, 2017

Meridiana Elementary
Deer Park High School
North Campus
Deer Park
Education Support Center
San Jacinto Elementary

27 april, 2017

Meridiana Elementary
Pomeroy Elementary
San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary

facility visits with Santa Fe ISD



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



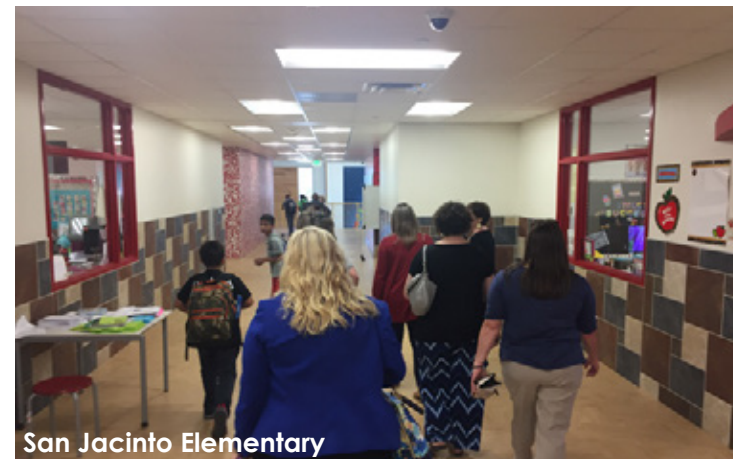
San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary



San Jacinto Elementary

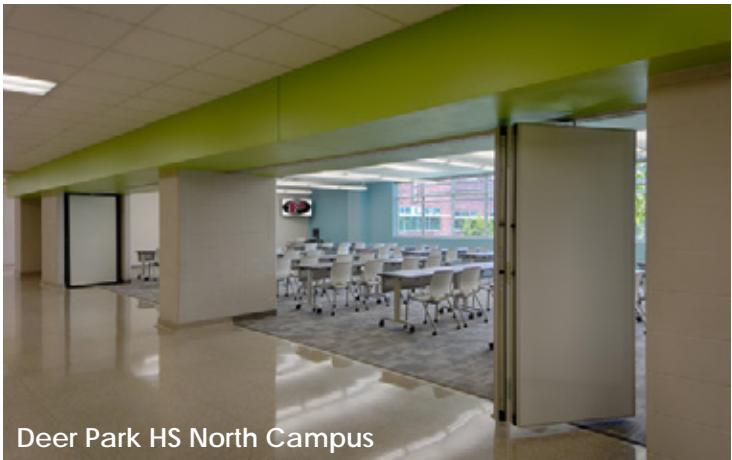
facility visits with Santa Fe ISD



Deer Park HS North Campus



Deer Park HS North Campus



Deer Park HS North Campus



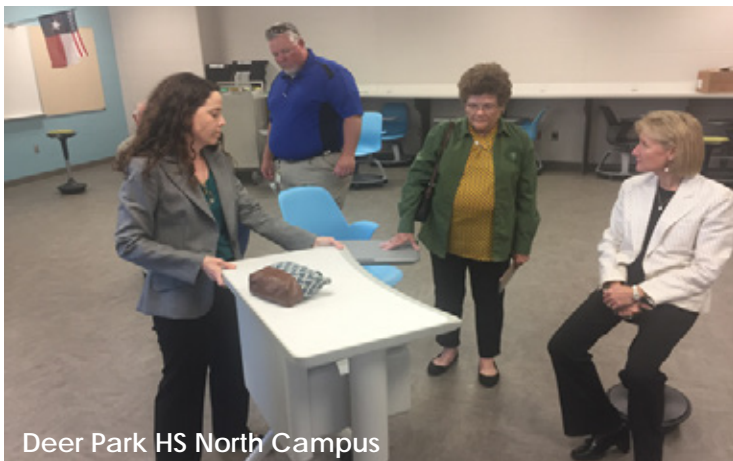
Deer Park HS North Campus



Deer Park HS North Campus



Deer Park HS North Campus



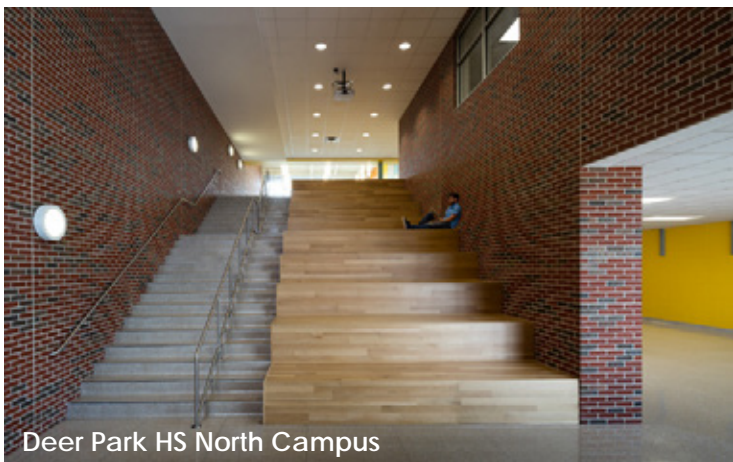
Deer Park HS North Campus



Deer Park Education Support Center

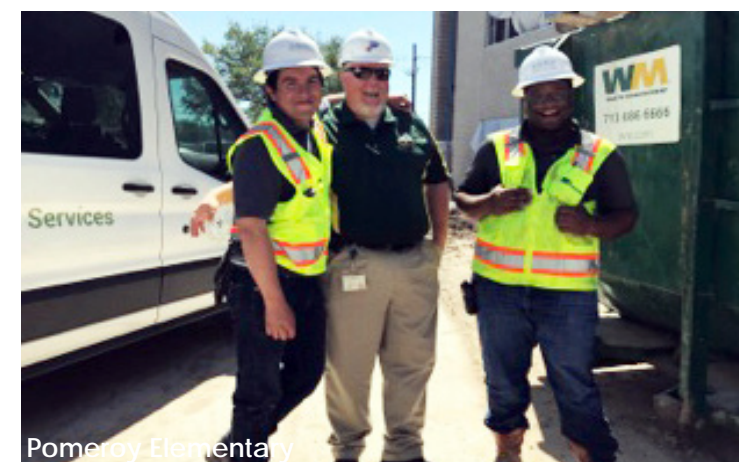
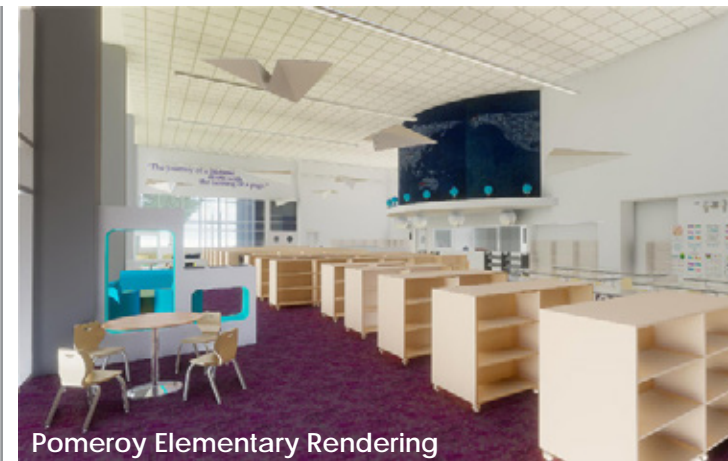


Deer Park Education Support Center



Deer Park HS North Campus

facility visits with Santa Fe ISD



facility visits with Santa Fe ISD



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



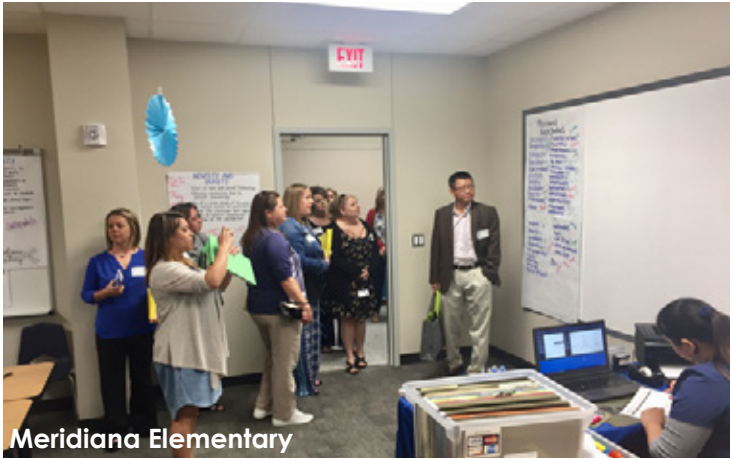
Meridiana Elementary



Meridiana Elementary



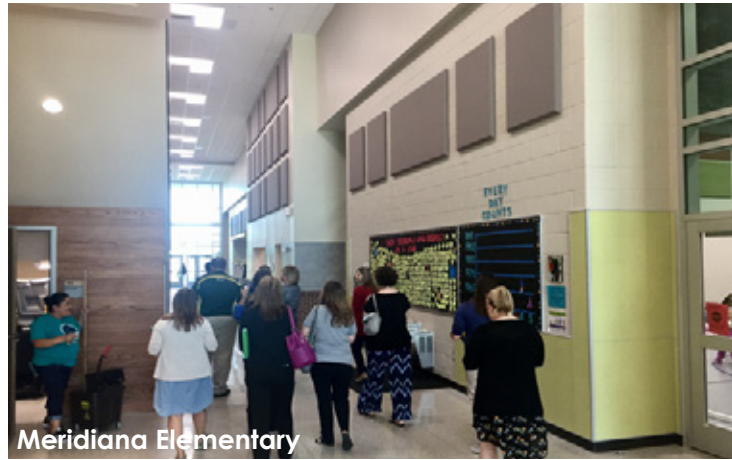
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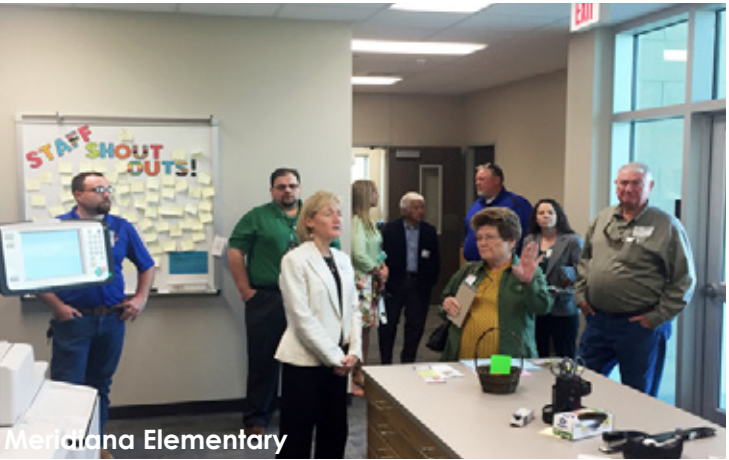
Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



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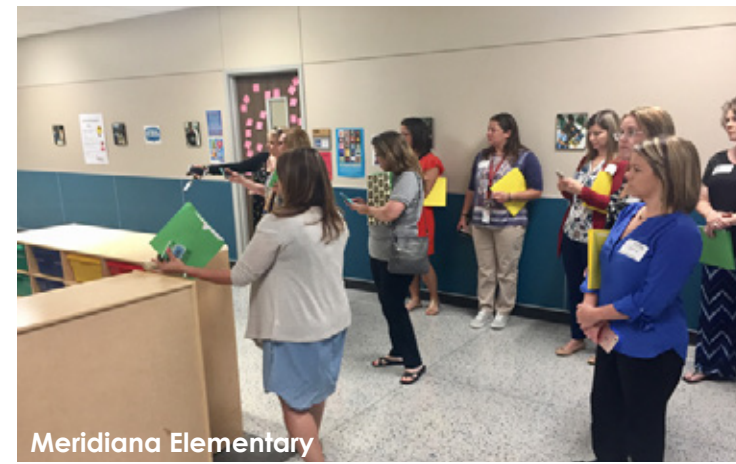


Meridiana Elementary

facility visits with Santa Fe ISD



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



Meridiana Elementary



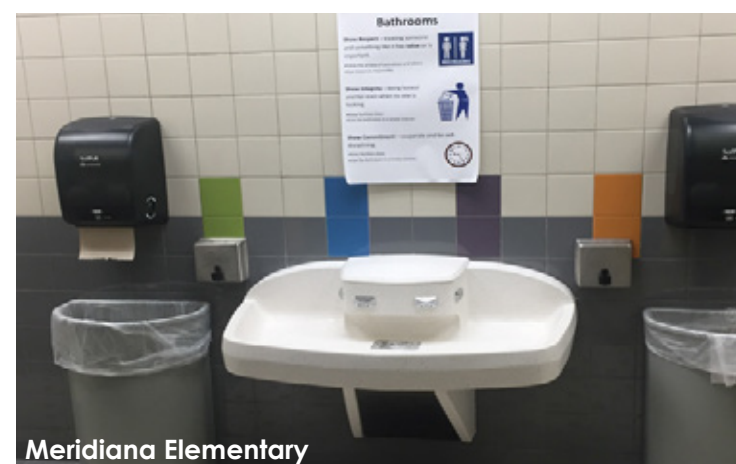
Meridiana Elementary



Meridiana Elementary



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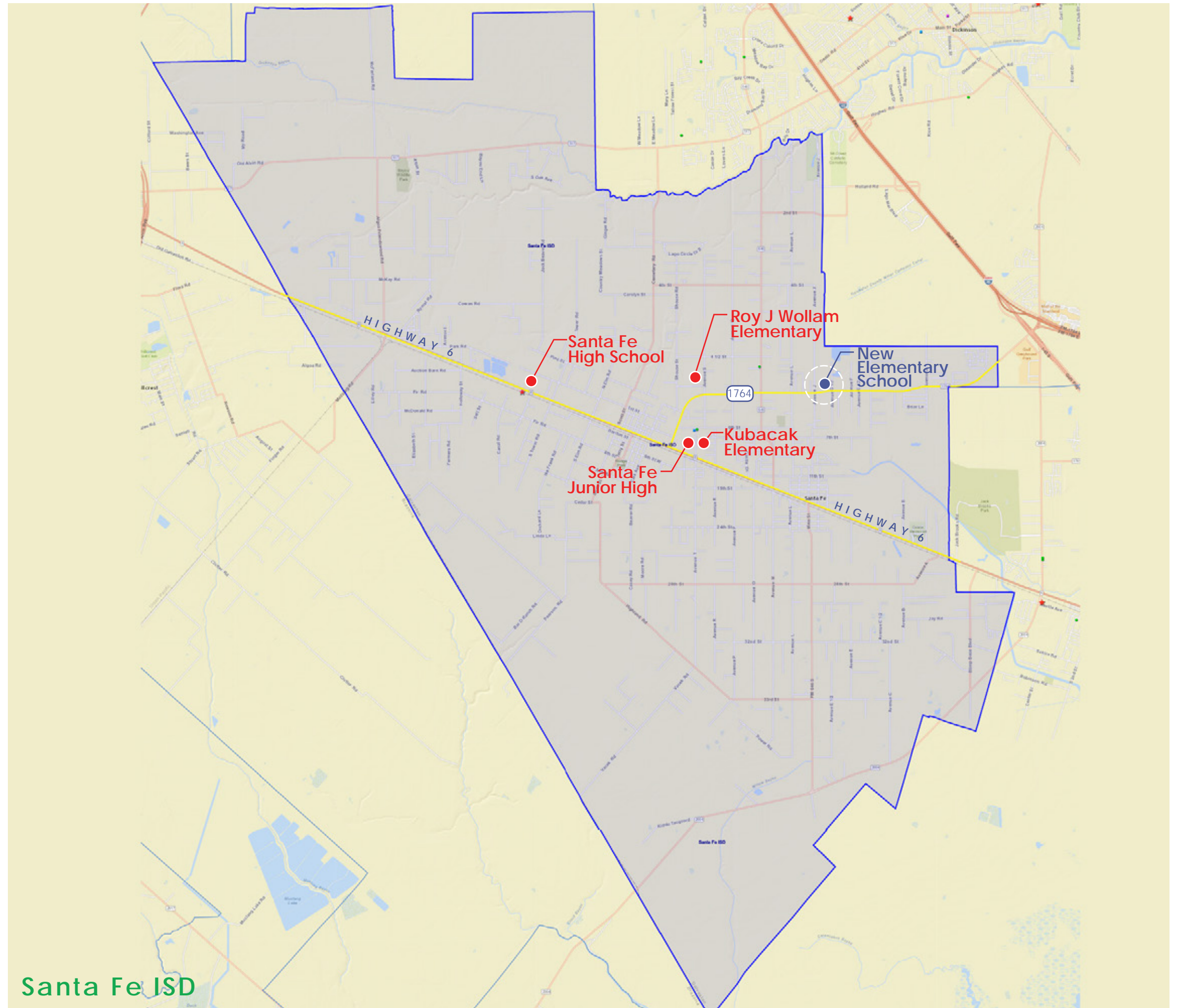


Meridiana Elementary



Meridiana Elementary

district map & aerial view of proposed site





“I love the early process of asking about a story and deciding which questions matter most.”

- Diane Sawyer

Our next step:

schematic design!

