

2015 Exhibition of School Planning and Architecture

Midland ISD Prototype Elementary School

Category: Design Concept

Midland Independent School District
Midland, TX

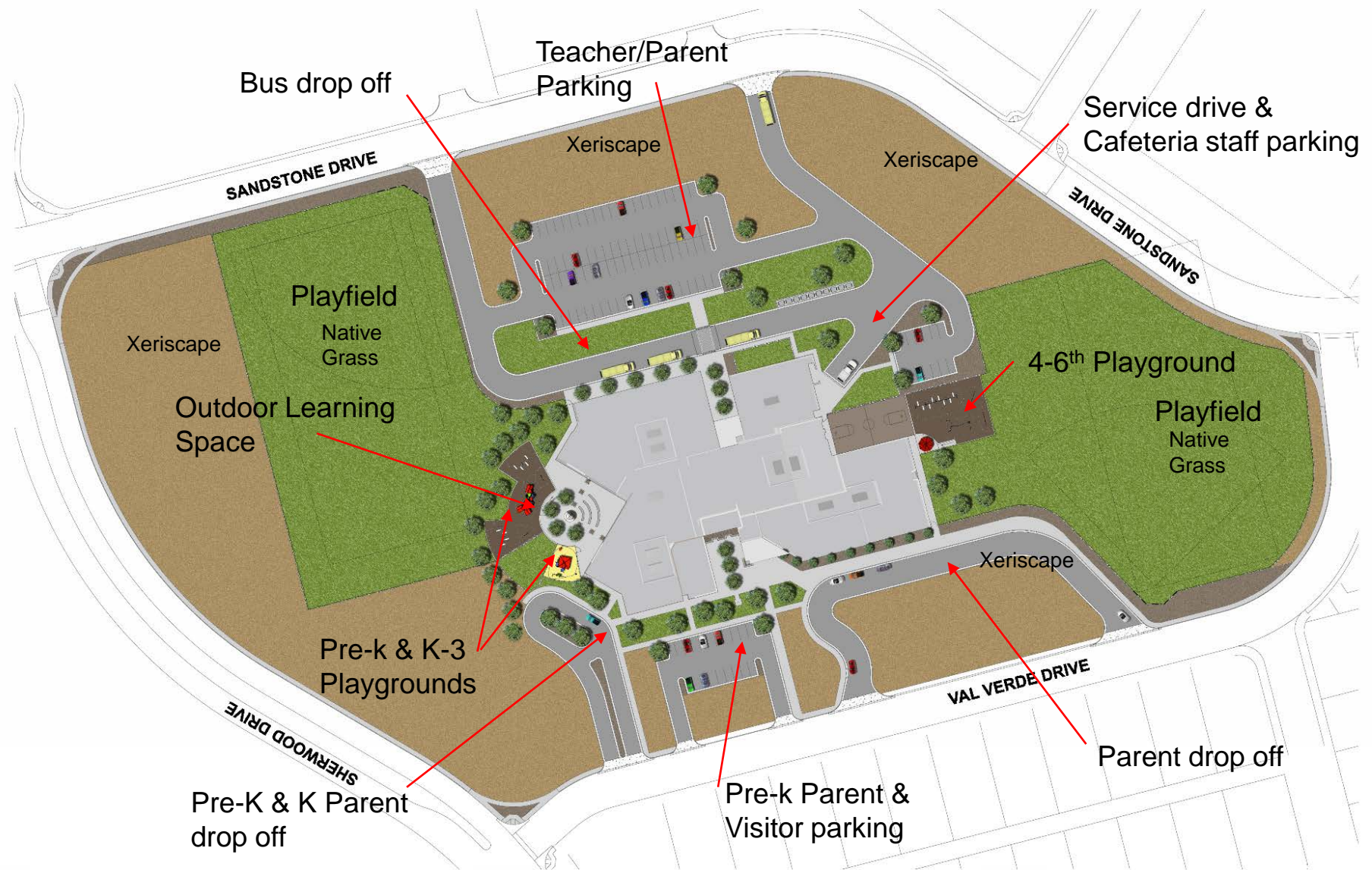
Midland Prototype Elementary School



Midland ISD Prototype Elementary School

Site Issues:

- Access, traffic flow
- Building accessibility to community
- Location of playgrounds and play fields
- Create learning environment outside
- Low maintenance landscaping



Community Engagement: Neighborhood School

Getting Ownership

Special community meetings were held on a regular basis to gather ideas, needs, hopes and wants into their community school. The design process also included administration, teachers, principals, board members and students to promote citizenship within each community. During these meetings a poll was taken to determine important design guide concepts for the school. Technology, safety, fun, flexibility and collaboration were among the top 5.



Technology
Sustainability
Flexibility
Day-lighting
Passive Learning
Fun
Collaboration
Community
Safety
Transparency

Community Partnerships

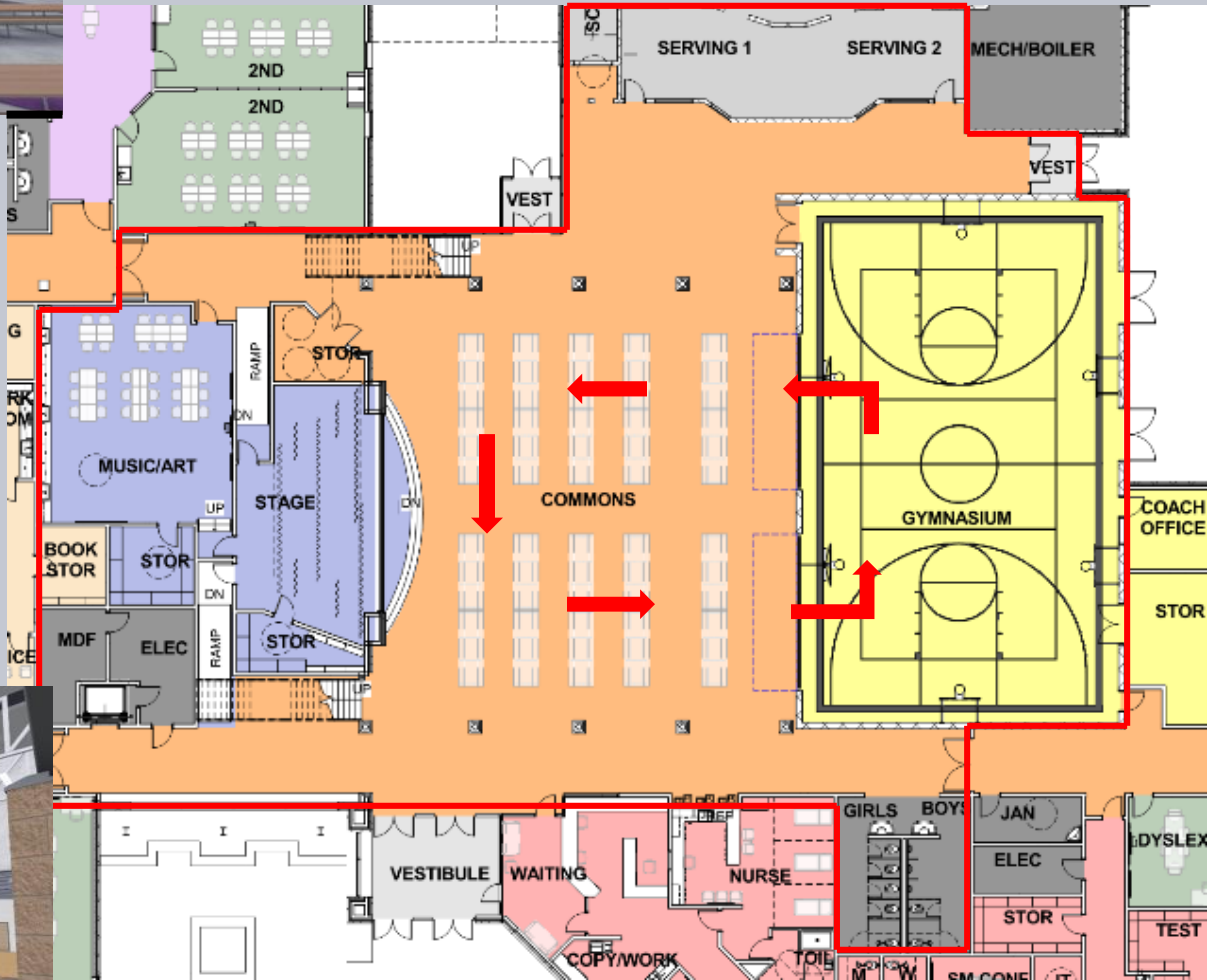
The community and administration’s design intent was have a place that was large enough to hold several hundred people for different functions throughout the year. The Commons and Gym are separated by a wall with operable partitions, so that the spaces can open up to be come one large space. Both rooms are equipped with a sound system that can function in one room or both depending on the need. This main area was designed so that the school can close off all other areas of the building, during public events.



“Education is that whole system of human training within and without the school house walls, which molds and develops men.” – W.E.B. DuBois



MISD Goal: ... develop positive partnerships with Midland’s community and business organizations.



Learning Environment

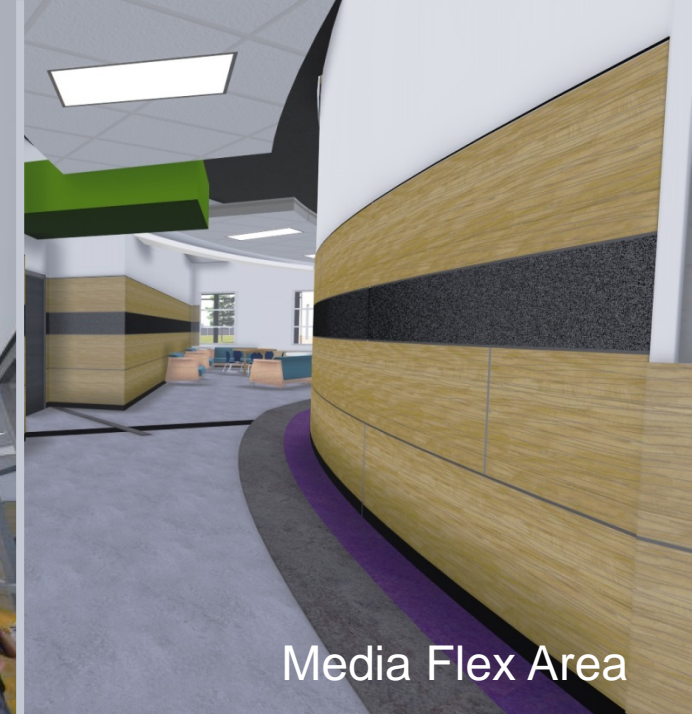
The architecture of the building promotes collaborative learning by providing spaces that create instructional opportunities not only within the classroom, but throughout the building and the exterior as well. The flexibility of these spaces can accommodate student participation from individual and small group activities to large group instruction and presentation.

Neighborhood includes:

- 2-5 Classrooms
- Teacher Colab
- 1 on 1 meeting room
- Flex rooms -Large Multipurpose rooms



Media Center



Media Flex Area



Flex Room



Neighborhood Restroom

Learning Environment:

Will engage students minds and creativity through exemplary learning environments, to excel in project based learning and problem solving.

The general classrooms within the Neighborhoods have the flexibility to pair with other adjacent classrooms by retracting acoustically rated partitions. This flexibility allows teachers the ability to team teach multiple classrooms or subjects. Classrooms are designed so that all teachers may move from room to room. Teachers have their personal areas setup in the Teacher Colabs.

Through the flexibility of the neighborhoods, not only does the space encourage Teacher collaboration but student collaboration as well. Students help each other recognize, enable and guide each other to reach their full potential.

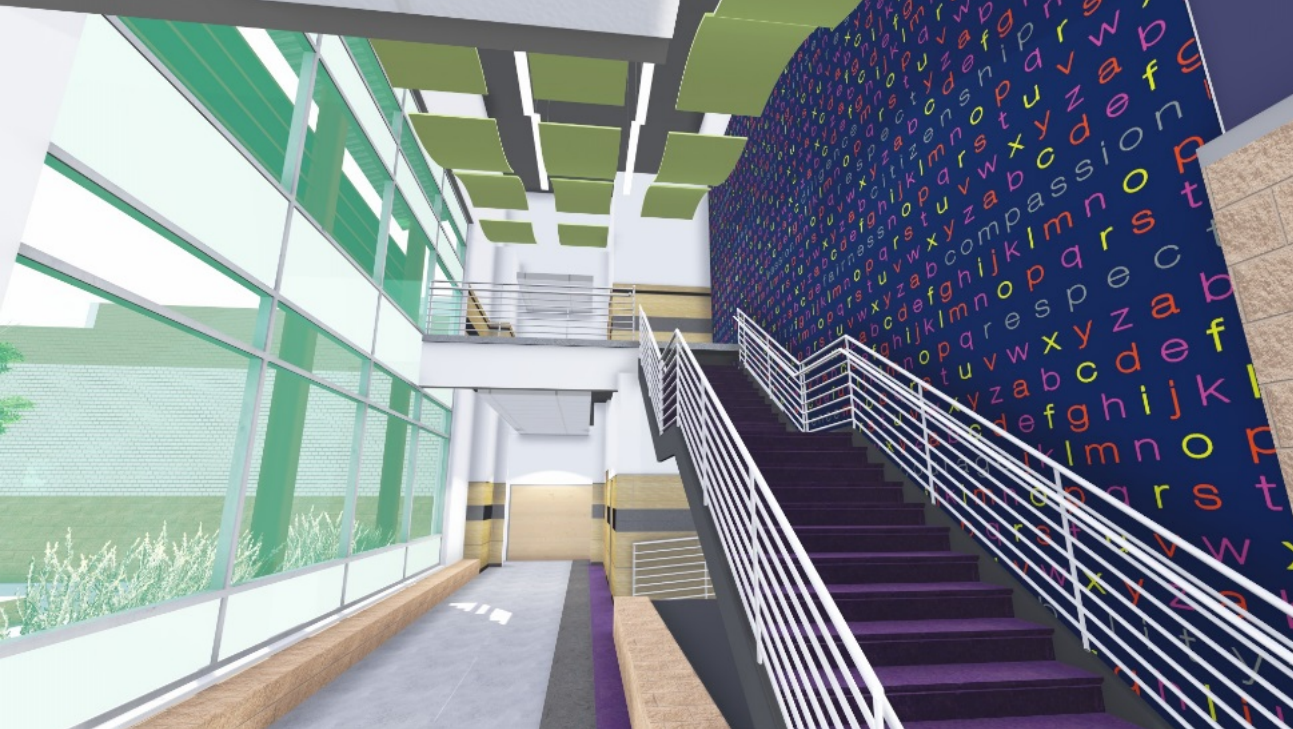


Physical Environment

“The bits I most remember about my school days are those that took place outside the classroom.”
— Alan Bennet

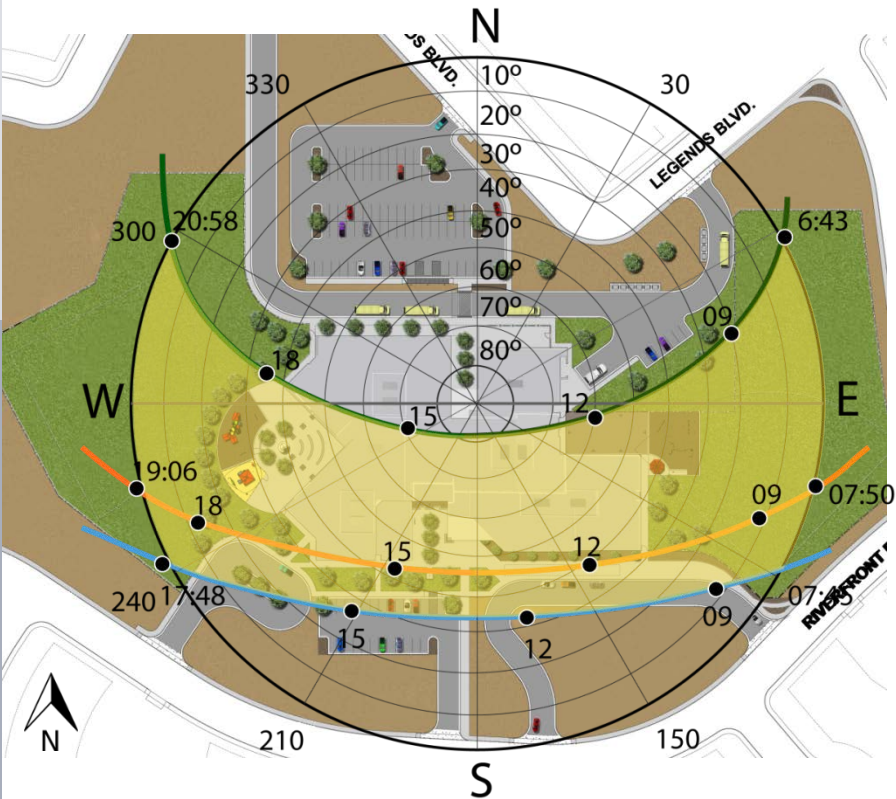
Outdoor Learning: Flexible outdoor learning gives students experiential and naturalist learning opportunities, as well as an area to showcase student performances and story-telling.

Graphics: School ‘Character’ words are incorporated into a word wall at the front of the school as a statement of the community values.



Physical Environment

- Daylighting
- Large louvers for large expanses of glass
- Low-E glass/glazing
- LED lighting
- Native landscaping/ Drought tolerant plants



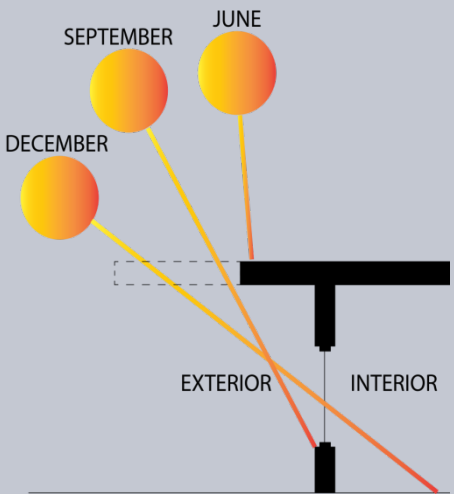
Sun Path

- Today
- June 21
- December 21
- Annual variation
- Equinox (March and September)

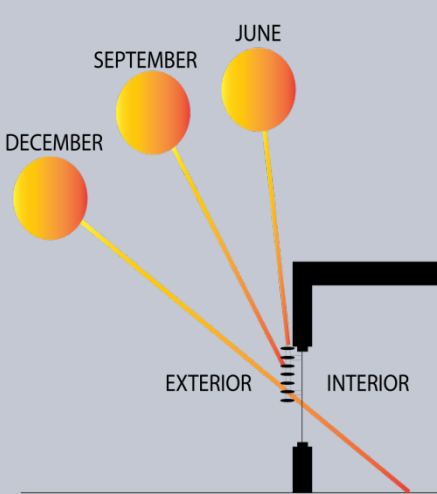
Sunrise/Sunset

- Sunrise
- Sunset

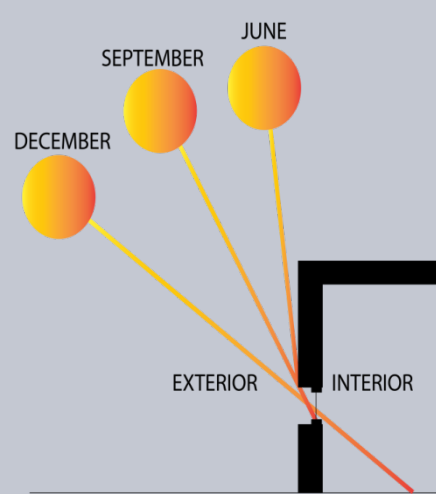
OVERHANG SUN DIAGRAM



LOUVRES SUN DIAGRAM



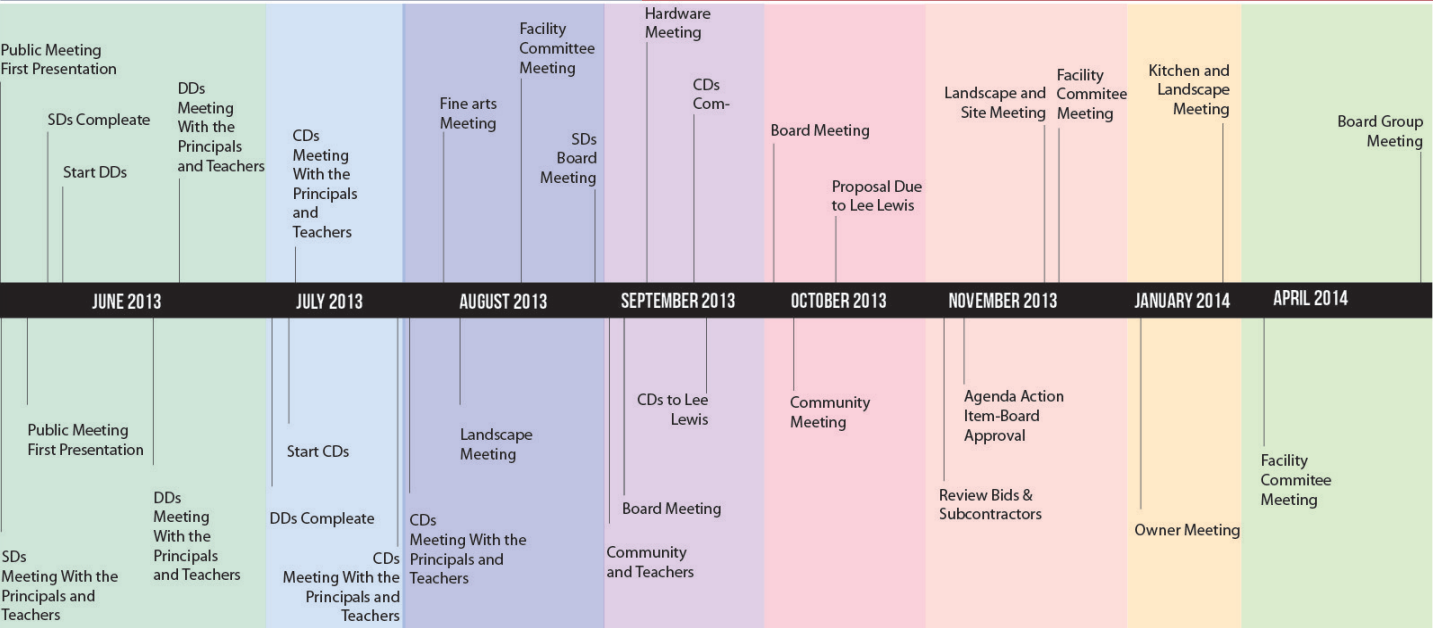
SET BACK WINDOWS SUN DIAGRAM



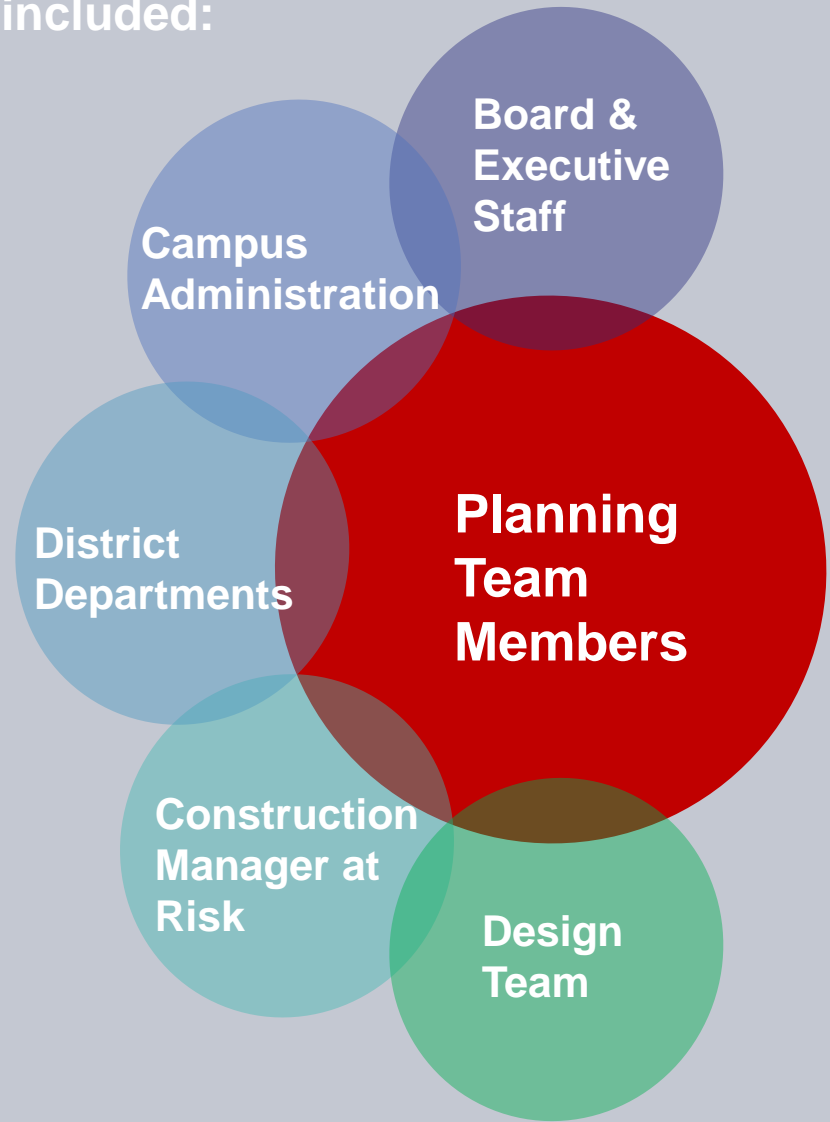
Planning Process

“ What makes a child gifted and talented may not always be good grades in school, but a different way of looking at the world and learning.”
– Chuck Grassley

- ### Planning Team Goals:
- Provide flexibility in the classrooms and throughout the building
 - Create collaborative teaching and learning environments
 - Safety and security
 - Create a school that the community will be proud of



50+ member planning team included:



Planning Process

- Design Team and Administration observed other school districts existing teaching environments and school safety measures
- Charrettes with Administration, District Departments, and Community Members considered
 - Co-teaching and Collaboration
 - Learning Neighborhoods
 - Distribute portion of Library into grade level neighborhoods
 - Flexible furnishings
 - Mobile technology
 - Outdoor Learning spaces



Technology

Flexibility Sustainability

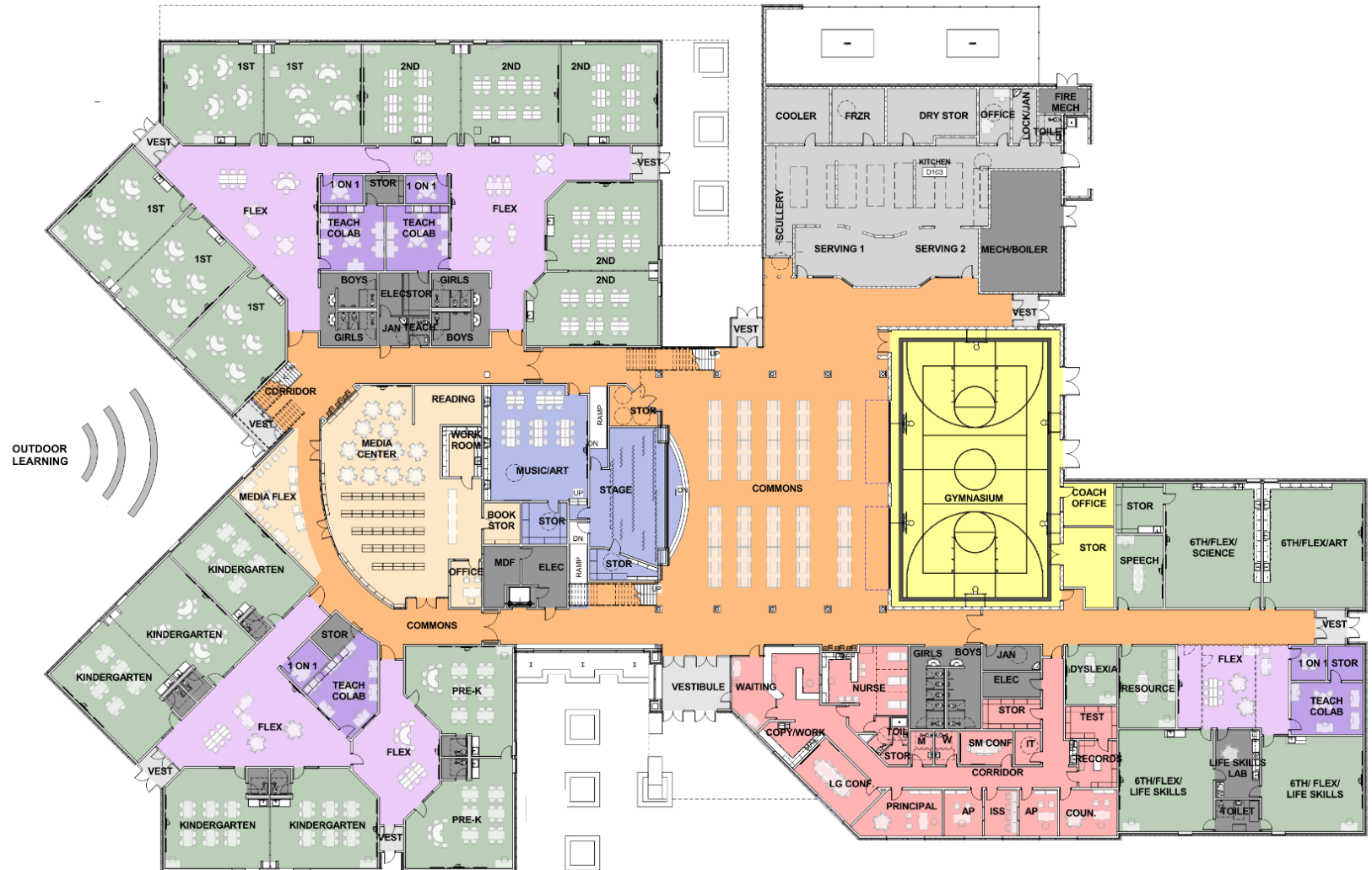
Passive Learning Day-lighting

Fun Collaboration Transparency

Community Safety

First

Floor Plan



Second

Floor Plan



Exhibition of School Planning and Architecture

Project Data

Submitting Firm :	Parkhill, Smith, and Cooper (PSC)
Project Role	Architect
Project Contact	Jamie Zavodny, AIA : jzavodny@team-psc.com
Title	Project Architect
Address	12301-B Riata Trace Pkwy, Suite 100
City, State or Province, Country	Austin, TX 78727
Phone	Work: (512) 676-2100 Mobile: (512) 739-9344

Joint Partner Firm:	
Project Role	NA
Project Contact	-
Title	-
Address	-
City, State or Province, Country	-
Phone	-

Other Firm:	FoodService Design Professionals (FDP)
Project Role	Kitchen Consultant
Project Contact	Lance Brooks
Title	Project Manager
Address	2655 Villa Creek Dr., #233
City, State or Province, Country	Dallas, Tx 75234
Phone	972.245.5300

Construction Firm:	
Project Role	Lee Lewis LLC
Project Contact	Josh Weems
Title	Project Manager
Address	7810 Orlando Ave
City, State or Province, Country	Lubbock, TX
Phone	806.797.8400

Exhibition of School Planning and Architecture

Project Details

Project Name	Midland ISD Prototype Elementary School
City	Midland
State	Texas
District Name	Midland Independent School District
Supt/President	Dr. Ryder Warren
Occupancy Date	August 2015
Grades Housed	PK-6
Capacity(Students)	800
Site Size (acres)	Fasken - 16.75 Acres & Yarbrough - 11.54 Acres
Gross Area (sq. ft.)	92,500 SF
Per Occupant(pupil)	116 SF
gross/net please indicate	
Design and Build?	CM @ Risk Building Fasken ES and Yarbrough ES
If yes, Total Cost:	Fasken ES \$18.6 M & Yarbrough ES \$18.3 M
Includes:	Fixed Equipment and Library Furniture
If no,	
Site Development:	
Building Construction:	
Fixed Equipment:	
Other:	
Total:	\$36.9 M