

CLARA BARTON

ELEMENTARY SCHOOL

Lake Washington School District
North Redmond, WA



EXECUTIVE SUMMARY

“For the last 10 years, from 2008 to 2018, the district’s enrollment grew by approximately 620 students each year. That is the size of a large elementary school. A total of 6,218 more students are in LWSD schools today than 10 years ago, representing 26 percent growth.”

— www.lwsd.org

Lake Washington School district is the third largest school district in the state. The exponential growth happening in the district is a sign of a thriving community, one challenged with the task of building several new schools to meet demand. The opportunity is **equity**, rather than equality across a diverse pop-

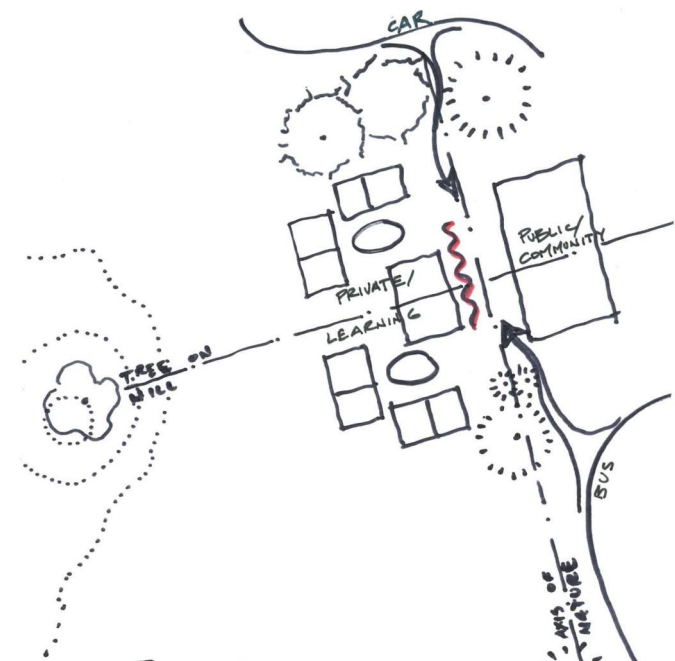
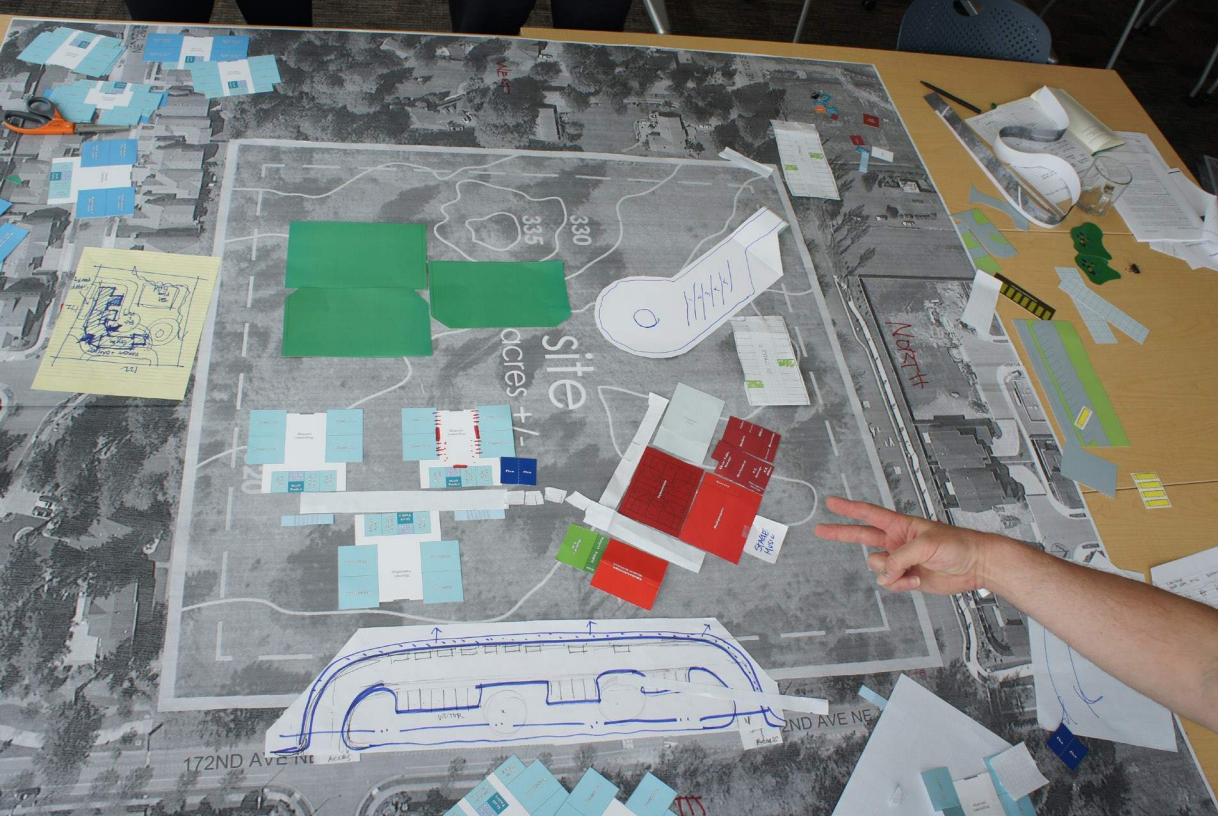
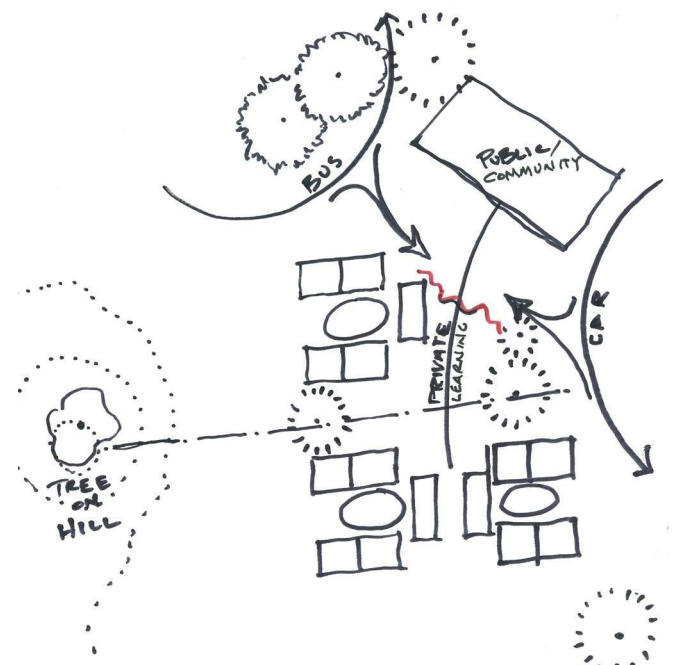
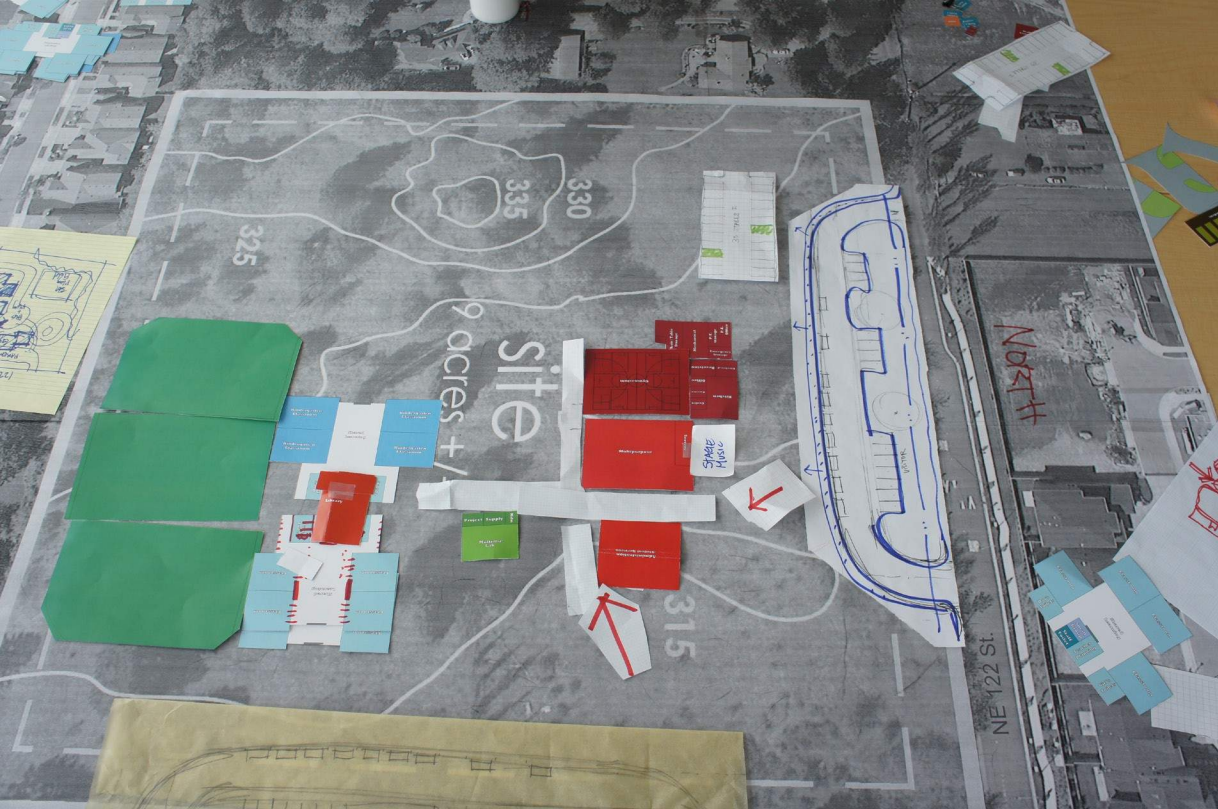
ulation of dedicated and passionate citizens. How can we provide **student centered, results oriented, learning focused, and community connected** design?

The design for Clara Barton comes from a collaborative process with the school district and community to align an architectural vision with the values and goals of Lake Washington School District. The desire for student centered design was expressed. This translates to creating spaces that are not only flexible and adaptable, but also opportunistic in nature. This results in more fluid and collaborative spaces, blurring the lines between formal education and informal learning settings.

Essentially all spaces in a Newley created elementary school are thought of as focused learning opportunities. Spaces within provide an interconnected learning experience through technology as well as different scales of learning. By providing a variety of adjacent learning spaces, Clara Barton makes adaptability and flexibility with the attempt to inspire students to become thoughtful citizens. The result is opportunistic learning through creative planning of adjacencies with a vision for equity. With this concept in mind all spaces are given the same opportunity to impact education. The external forces of a diverse community are an asset, an opportunity for compassionate

learning and adapting social skills to navigate a problem world. It is as important for children to learn from their classmates as it is to learn from their teachers. The concept for Clara Barton Elementary School is about opportunity to connect people, cultures, and the natural world, creating equity across all space within.

SCOPE OF WORK AND BUDGET	OWNER	SITE AREA	BUILDING AREA	GRADES	CAPACITY	SQUARE FEET PER STUDENT	OCCUPANCY DATE	CONSTRUCTION COST
	Lake Washington School District	9 ACRES	78,000sqft	K-5	550	128SF/PUPIL	SEP 2018	MACC : \$37.5M FINAL COST : \$38.75M DESIGN CO. \$1.52%





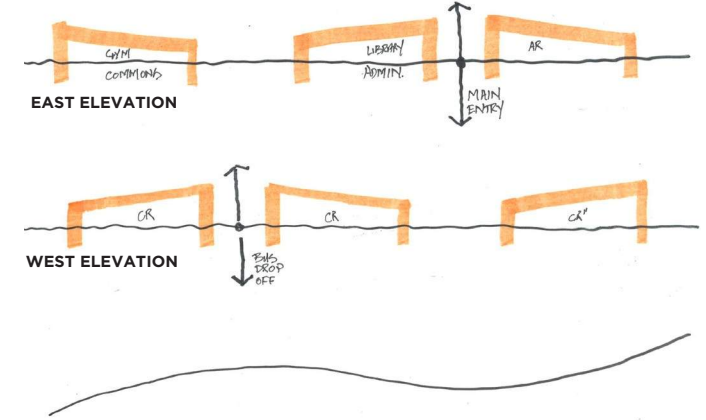
WARM AND WELCOMING

The interior spaces including entry lobby are ment to resonate with the surrounding context of North Redmond. Glass is used liberally to achieve as much transparency and daylighting as possiible. This achieves a space that is not only safe but inspirational

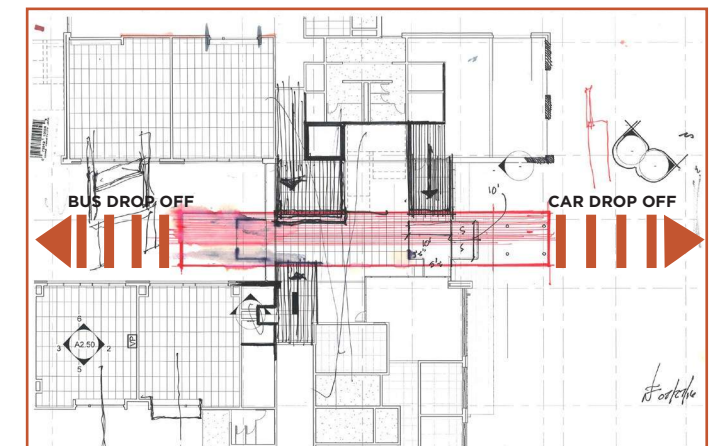


RESPONSE TO SITE

The building responds to the natural world through simple yet refined roof forms. The building respond to the landscapes natural slope.



LANDSCAPE/THE HILL



CONNECTIONS AND TRANSPARENCIES AT ENTRY

SCHOOL & COMMUNITY ENGAGEMENT

EQUITY = OPPORTUNITY TO MAKE ALL SPACE A PLACE OF LEARNING - OPPORTUNISTIC LEARNING

Clara Barton Elementary School is nestled inside a newly redeveloped residential neighborhood. This provides a unique opportunity to fuse the identity and character of the surrounding context with the visions of a school district to create a unique piece of Architecture capable of serving the greater community.

Clara Barton is designed with the focus on creating a more hands-on learning experience. Transitioning

from traditional lecture settings to more fluid and dynamic spaces that consider the importance of connection, and the death of isolation. A core value of Lake Washington School district is equity, with the hopes of creating equal opportunity across all their new bond projects.

In order to provide spaces of opportunity and equity, Clara Barton engages the surrounding community in a discussion of what makes a great learning experience. It is understood that opportunity to learn comes from internal forces as well as the external forces of a larger community.

The community of Redmond has been underdeveloped for some

time. It is only in the last ten years that Lake Washington School district has faced exponential growth, at the hand of a diverse and thriving community. The region is growing rapidly at an estimated 600+ students a year, placing economic pressure on the district to react quickly and with results. The surrounding context provides unique insight into the opportunities and challenges of a newly built school for a newly developed community. The challenge is to spread “equity” to all respective bond projects. The opportunity is to build something new, that resonates with the growth and diversity of North Redmond. A new school must take on the values and character of its adjacent community to truly serve as a community building.

Lake Washington values equity, or the ability to provide as much opportunity in every space for every student as possible. By doing so Clara Barton remains nimble, capable of adapting to the individual needs of students, as well as those of a greater community. The external forces of a diverse community are an asset, or an opportunity for compassionate learning, and adapting social skills to navigate a problem world. It is as important for children to learn from their classmates as it is to learn from their teachers. Clara Barton Elementary school is about building on the success of a community and placing importance on connections to people, cultures, and the natural world.

98052 POPULATION DEMOGRAPHICS

Total Population	65,251
Male Population	33,320
Female Population	31,931



Male Population
51.06 %
Female Population
48.94 %

Median Age	34.8
Citizen US Born	39,093
Citizen not US Born	8,807
Not Citizen	17,351



Citizen US Born
59.91 %
Citizen not US Born
13.5 %
Not Citizen
26.59 %

Moved from Abroad	3,386
Moved from Same Country	7,852
Moved from Same State	926
Moved from Different State	1,990
Same House as Last Year	50,185



Moved from Abroad
5.26 %
Moved from Same Country
12.2 %
Moved from Same State
1.44 %
Moved from Different State
3.09 %
Same House as Last Year
78 %





CONNECTIONS AND TRANSPARENCIES

The main entry is designed to greet the community of North Redmond and allow administration to interface with the parents. It does this with a secure vestibule and as much transparency as possible in order to maintain visibility as well as wash the space with natural light.



FLEXIBLE AND ADAPTABLE

Spaces are designed to accommodate multiple program & learning needs as well as a connection to the outdoors.



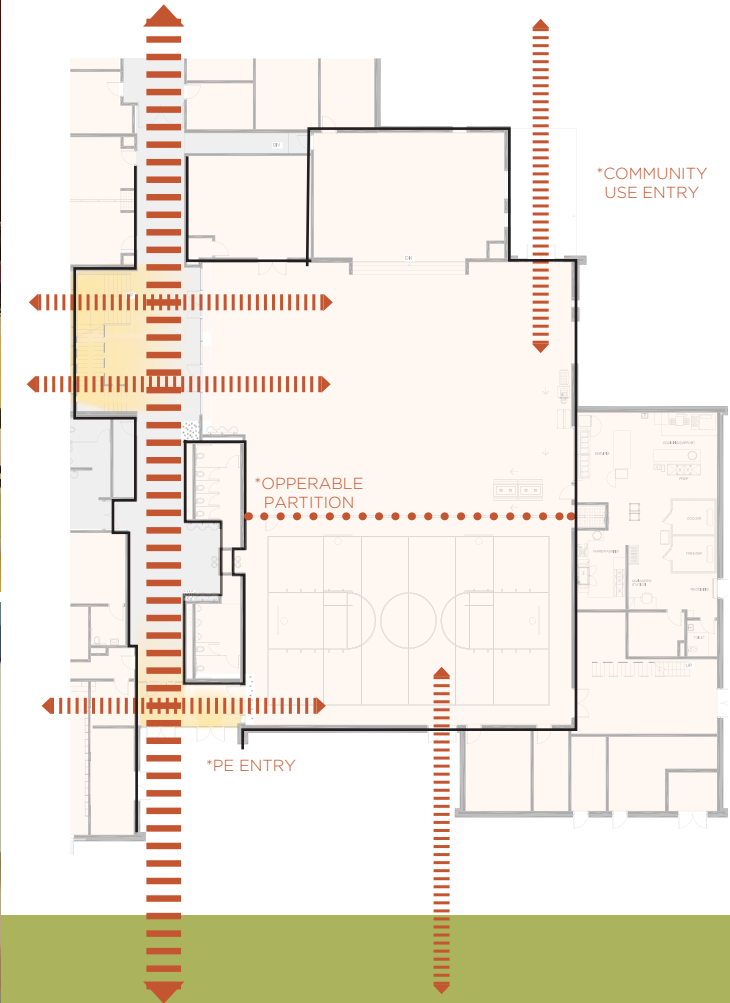
INSPIRE

Communal spaces are designed to inspire curiosity for the world. Important connections to the outside are used as opportunities to bring in natural daylight colors and materials that reflect the natural world.



**FLEXIBILITY + ADAPTABILITY + MULTIPURPOSE + EQUITY =
OPPORTUNISTIC LEARNING**

ENTRY PLAZA



PLAY!

ZONED COMMUNITY USE

The gymnasium and commons can be combined to accommodate community gatherings and events.



EDUCATIONAL ENVIRONMENT

MISSION

“Every Student will graduate prepared to lead a rewarding, responsible life as a contributing member of our community and greater society”. -LWSD

EDUCATIONAL VISION

Clara Barton is the result of a collaborative process between Client, Community, and Architect. The building emerged from Lake Washington School Districts desire for equity, which translates into opportunistic learning. Essentially the concept for a learning environment is achieved through flexible and adaptable space creating interconnected learning experiences that attempt to break down the boundaries of the traditional classroom. The idea embraces all space as an opportunity for growth and education. This vision for flexibility is

achieved through careful planning of spaces but also dependent on technology to facilitate a more synchronous stage for learning. Tools such as smart screens and mobile charging stations, paired with wireless technology mean that the tools used can be moved and adapted for the classroom, shared learning spaces or even small group rooms. The goal is to bake as much equity into each space to create a vision for opportunistic learning.

CONNECTION & TRANSPARENCY

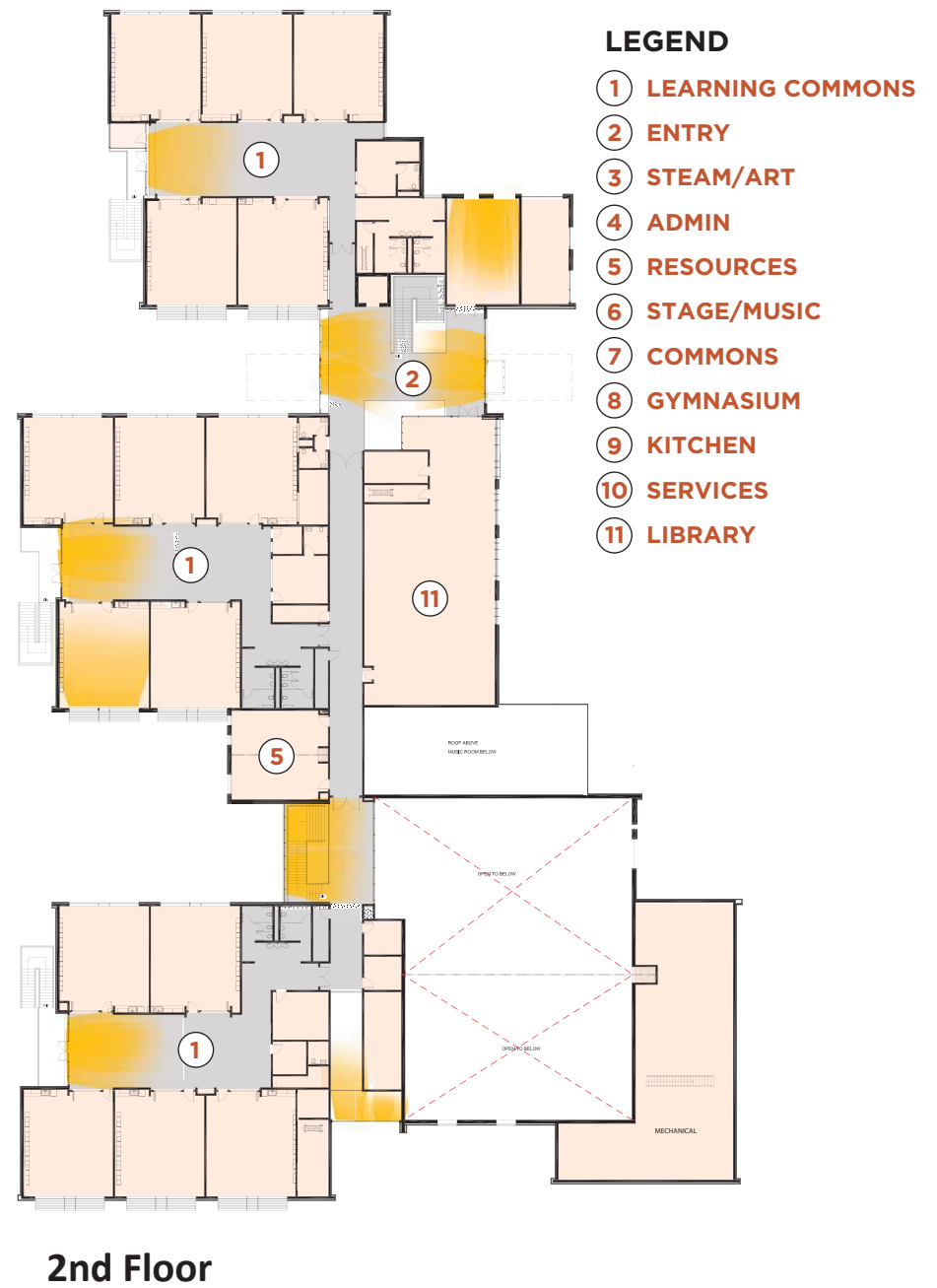
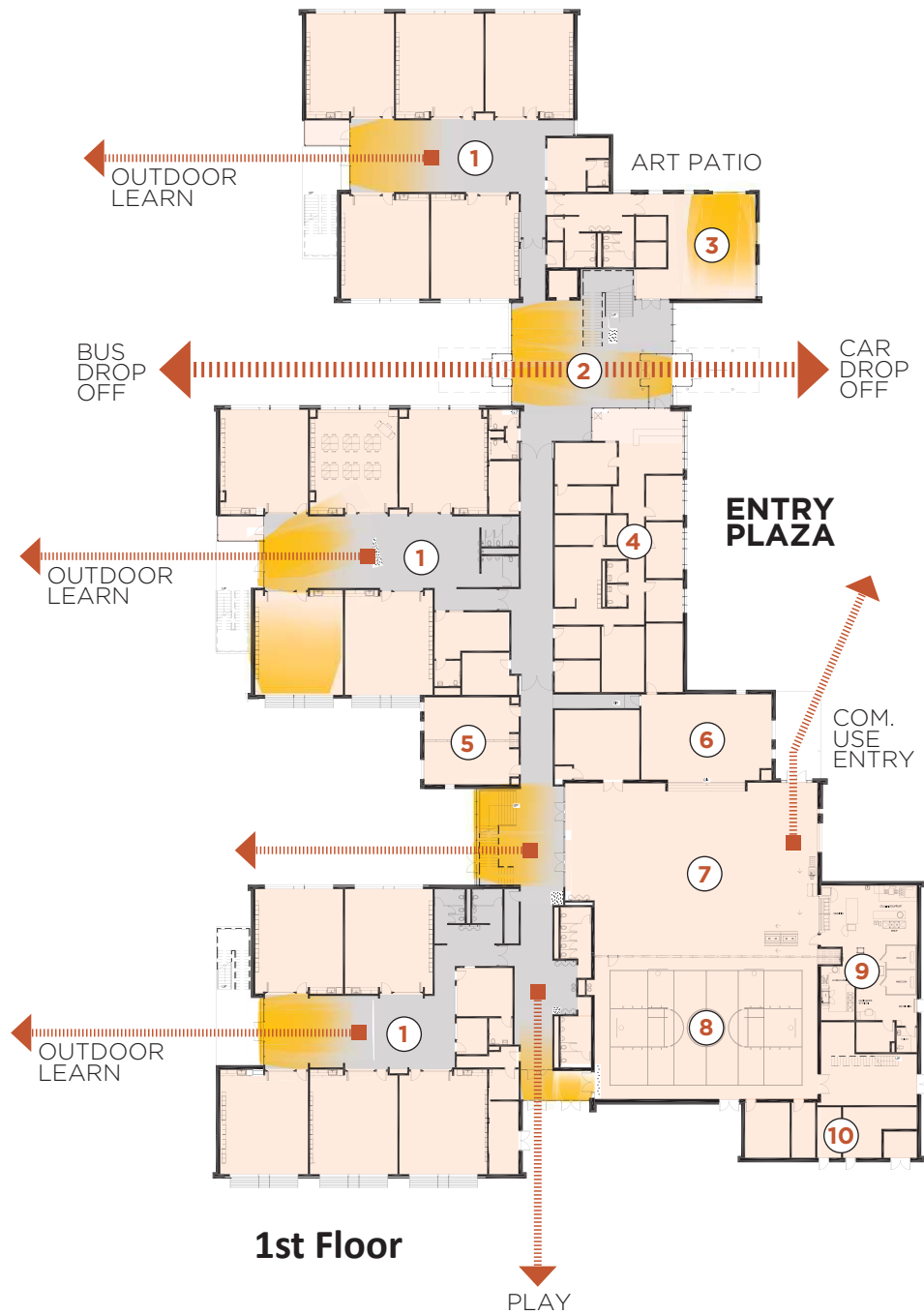
The concept of connection is important to an educational vision as well as an Architectural narrative. Connection is achieved through thoughtful planning of program to allow primary spaces to bleed out into secondary spaces in a controlled manner by using glass and Nana walls. This is done with the

goal of maximizing transparency and lines of sight. This translates into interconnected, healthy, and safe educational space designed through architectural concepts that reinforce a connection to people, community, culture, and the natural world.

Clara Barton can be defined as a 2-story building that stretches across the site in a north and south orientation to maximize daylighting but also connect the students and faculty to as much of the existing natural context as possible. In order to accomplish this, important site character is identified before programming can begin. Thus, program is arranged to capitalize on adjacencies, resulting in flexible/multipurpose space. The goal is to create special relationships that reinforce equity and the opportunity to learn. A community living room is defined by the gym and commons capable

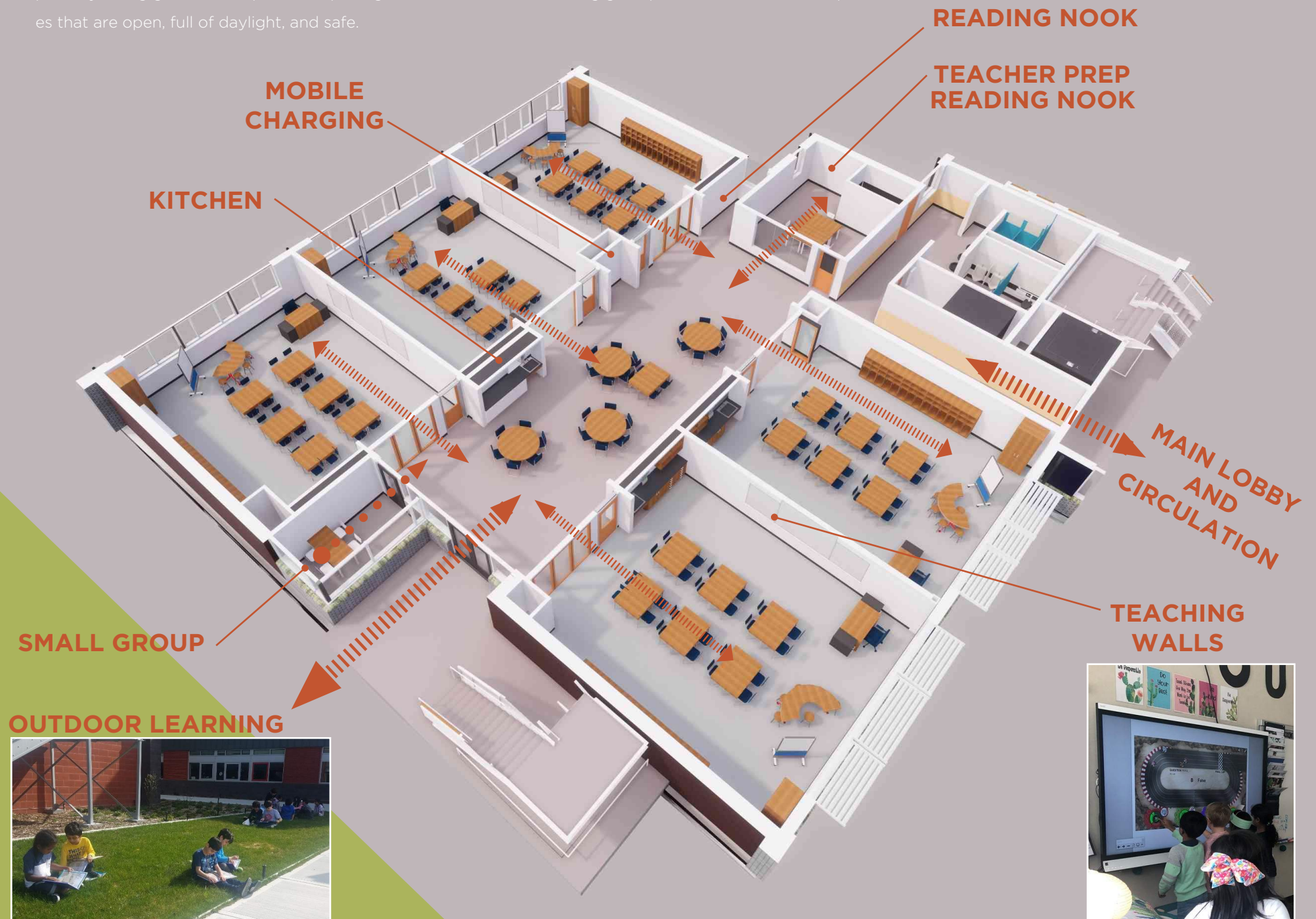
of operating as separate spaces or a single event space. As a single event space, the community living room can be accessed by a secondary entrance allowing for safe and secure zoning. The community living room has physical adjacencies to the playfields to create a cohesive and connected physical education program that attempts to connect students to the natural world.

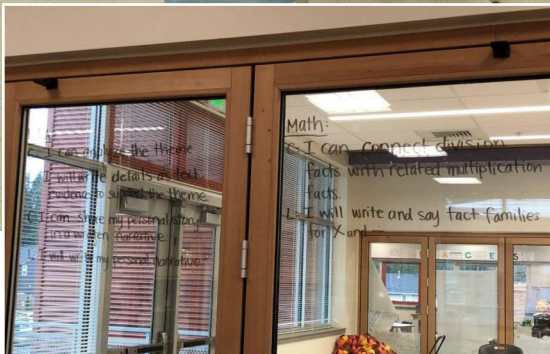
Learning pods are placed off a circulation spine clustered in classrooms of 5 around a central learning commons, that operates as a secondary break out space. This space allows for co teaching space, collaborative group work, and even informal individual work.



- LEGEND**
- 1 LEARNING COMMONS
 - 2 ENTRY
 - 3 STEAM/ART
 - 4 ADMIN
 - 5 RESOURCES
 - 6 STAGE/MUSIC
 - 7 COMMONS
 - 8 GYMNASIUM
 - 9 KITCHEN
 - 10 SERVICES
 - 11 LIBRARY

Each learning community can operate in several ways as educators see fit. These spaces maximize transparency, using glass, and capable of opening to one another with folding glass partitions. This creates spaces that are open, full of daylight, and safe.





OPPORTUNISTIC LEARNING

Learning communities are designed to be flexible to future growth by allowing each one the flexibility to function for different subjects and grade levels. In this way program spaces shed their single use identity and begin to function together for a more dynamic, flexible, and collaborative learning environment.



LIBRARY

PHYSICAL ENVIRONMENT

The placement of Clara Barton on site is to be determined by several forces such as site features existing and new, safety, as well as important functioning adjacencies. These challenges translate into achievable goals with the mindset that education is always opportunistic in nature.

SUSTAINABILITY

Existing site features inform an architectural intervention with the goal of opportunistic learning, as well as an overall goal to be environmentally and economically sustainable. The site was surveyed for existing important landmark trees as well as an important hill to the west, which must remain for a successful dialogue with the physical environment. The building is situated between these clusters of existing

nature. The result is a building that has a more symbiotic relationship with site and reminds our future leaders that we must learn to live alongside our natural world and protect as much of it as possible. Clara Barton attempts to live with the existing natural context and use it as an opportunity to educate. Lake Washington school districts vision for equity and opportunity resonates with a desire to be sustainable. This informs an architectural vision, driven by the goal to be effective and efficient with money and space. The building takes on this challenge employing simple straight circulation with simplistic volumes growing outward. This results in a building that is repetitious and stratified in nature.

SAFETY AND SECURITY

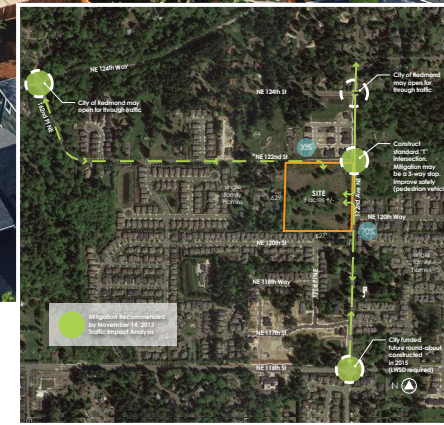
The character of Clara Barton's Architecture is inspired by the context of an incredibly beautiful green field site, surrounded by a newly developed residential neighborhood. The City of Redmond is identified as a car dependent community. As such careful traffic analysis was done to ensure that existing roads could handle the additional traffic load of a new elementary school. Site features such as drop off lanes and school bus parking are thought of as an opportunity to design a site capable of adapting to the future growth of a growing community. The drop off lane is designed to handle an intake of 500+ students in a 20 min period via 1600 linear feet of queuing lane. This drop off lane guides occupants into a main entry plaza with access

to a secure vestibule as well as a community use entrance. This entry connects users to the administration wing and is designed to welcome users to the school and faculty.



ZONED COMMUNITY USE

Site Forces are identified and thought of as learning opportunities.





RESULTS

MISSION

Clara Barton is a brand new elementary school situated in the lake washington school district. The project is an opportunity to build on the success of a thriving community.

There were many challenges including traffic impact, existing site features, as well as budgetary constraints. The result is a new elementary for a newly redeveloped residential neighborhood. In time the two will grow an identity that reflects the natural beauty of North Redmond as well as the character of the people. The building and its program are inspired by the natural world and aim to reinforce connections with people, culture, and nature. Clara Barton is the result of aligning the visions of Lake Washington School District, the community of North Redmond, and an

INSPIRE & MOTIVATE

Architect.

Clara Barton inspires future leaders to value their the diversity of their community, and to use this asset as an opportunity to teach and learn.

The result is student centered, results oriented, learning focused, and community connected design.

Clara Barton inspires a connection to the natural world the building is situated on site so as to have direct lines of sight and passage too outdoor learning. These existing site features have proven to become opportunities to teach children

and to inspire them to live a more symbiotic life with nature. Included in this mission is the vision for equity in a diverse community. Abundent daylight and the use of color is used throughout the project and is ment to enhance the educational environment by bringing joy, enthusiasm, and energy to the children within.

FLEXIBLE AND ADAPTABLE

The spaces within Clara Barton are ment to bleed together in an interconnected learning environment. For this reason glass is used throughout to connect people visually and physically to one another inside as well as the natural world outside. The result is a more fluid and dynamic learning environment where technology plays an important role. With wireless technology and mobile laptops children can learn in a num-

ber of scenarios. This means spaces of learning can exist in the between, allowing for more informal learning. Furthermore this flexibility allows teachers to experiment with co-teaching and other forms of collaborative learning.

OPPORTUNISTIC LEARNING

The results of Clara Barton prove to provide opportunistic learning. Essentially, equity is the goal with a mission to inject as much capability into space as budget will allow, so that the opportunity to learn exists in all spaces man made and natural.

