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I-70 EAST COVER AND SWANSEA
ELEMENTARY SCHOOL MASTER PLAN

PREPARED FOR COLORADO DEPARTMENT OF TRANSPORTATION
SEPTEMBER 11, 2015
ISSUE 01





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KEY PLAN



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PLAN SERIES

MATERIALS + LAYOUT

The purpose of this chapter is to depict the material variation across the site plan as well as set expected critical dimensions. The site has been broken into 6 windows and includes an outline keynote list that denotes surface materials, integral vertical elements such as walls and stairs, as well as specialty items like fences and pavilions. These keynotes will be used throughout the document to show the relationship between plan views and sections or perspectives. The dimensions provided are for reference only and are meant to depict critical dimensions that must be upheld through the design process.

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MATERIALS AND LAYOUT | WINDOW A



KEYNOTE LEGEND

PAVEMENT, RAMPS, CURBS	
1.1	SANDSCAPE FINISH CONCRETE
1.2	UNIT PAVERS
1.3	INTEGRAL COLOR ASPHALT WITH PAINTED STRIPES
1.4	POURED IN PLACE PLAY SURFACE
1.5	RUBBERIZED PLAY TILES
1.6	SAND PLAY SURFACE
1.7	CRUSHED GRANITE SURFACE
1.8	FLUSH CONCRETE SURFACE EDGER
1.9	FULL FLARE ADA RAMP
1.10	STONE PLANTER CURB
1.11	WOOD DECKING
1.12	ASPHALT PARKING PAVING
1.13	TREE GRATE
STEPS AND WALLS	
2.1	PRE-CAST CONCRETE SEAT WALL
2.2	SALVAGED CONCRETE STEPS
2.3	CAST-IN-PLACE CONCRETE RETAINING WALL
2.4	CAST-IN-PLACE CONCRETE SEATING STEPS
SPECIALTY ELEMENTS	
3.1	SCHOOL FENCING AND FIELD FENCING
3.2	SCHOOL AND COMMUNITY GATEWAY
3.3	ART MURAL WALL
3.4	BASKETBALL GOAL
3.5	FUTSAL GOAL
3.6	HANDBALL WALL
3.7	CLIMBING WALL AND BOULDERING FEATURE
3.8	PING-PONG TABLE
3.9	BOULDERS AND ROCK SCRAMBLE
3.10	GROUP PICNIC TABLES AND SHELTER
3.11	COMMUNITY PAVILION
3.12	COURT SPORTS PLAZA FENCE AND SHADE STRUCTURE
3.13	PICNIC TABLES AND BENCHES
3.14	FULL BATHROOM BUILDING WITH CHILD CHANGING STATION
3.15	TRANSPARENT OVERLOOK WALL
3.16	SPLASH WATER FEATURE
3.17	MAINTENANCE BUILDING
3.18	MAIN PLAY STRUCTURE
3.19	VERTICAL PLAY POLES
3.20	SWING STRUCTURES
3.21	INDIVIDUAL PLAY ELEMENT
3.22	GROUP PLAY ELEMENT
3.23	WOOD BEAM PLAY ELEMENTS
3.24	SHADED TREE "FORT"
3.25	SLIDES ON SLOPED HILL



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MATERIALS AND LAYOUT | WINDOW B



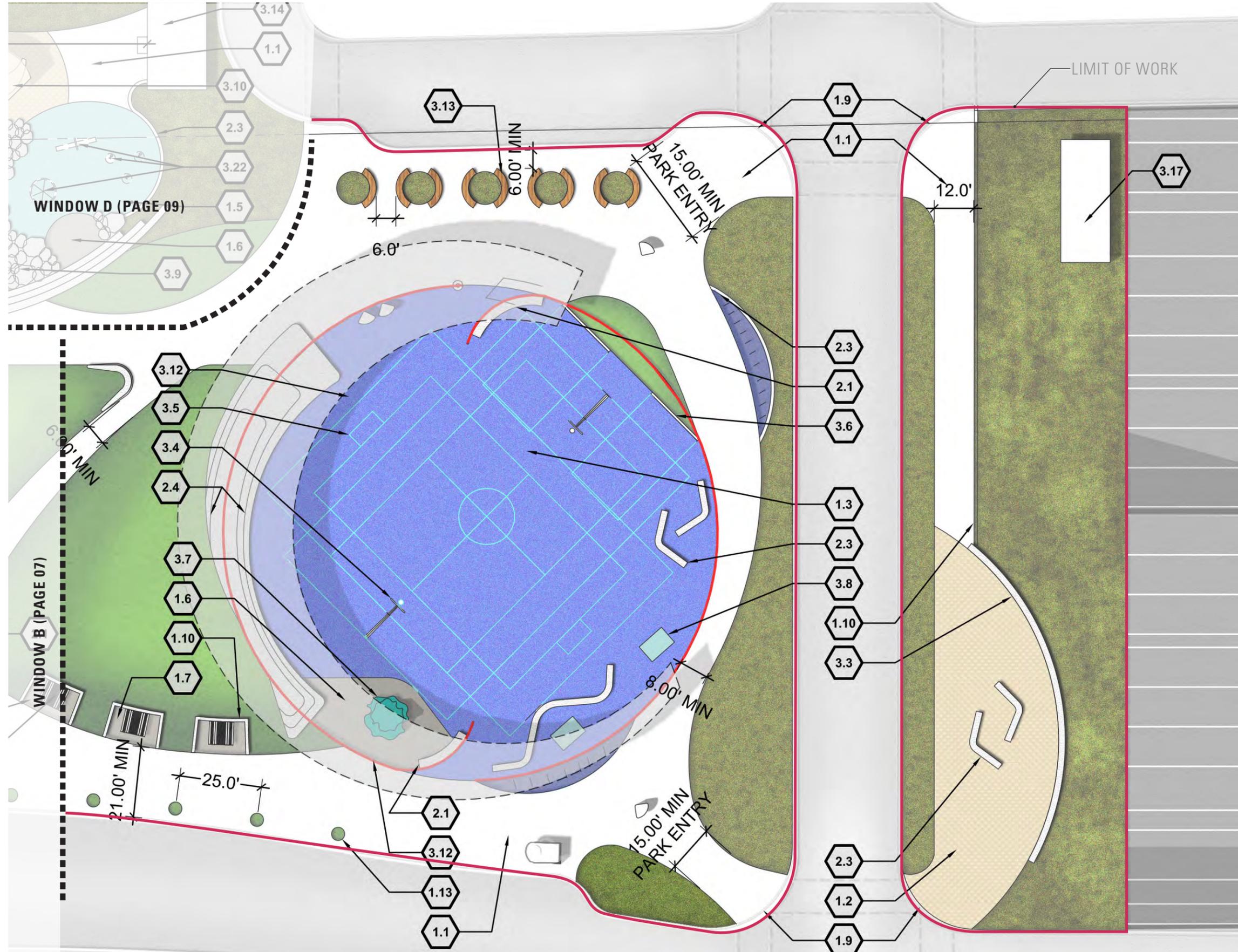
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MATERIALS AND LAYOUT | WINDOW C



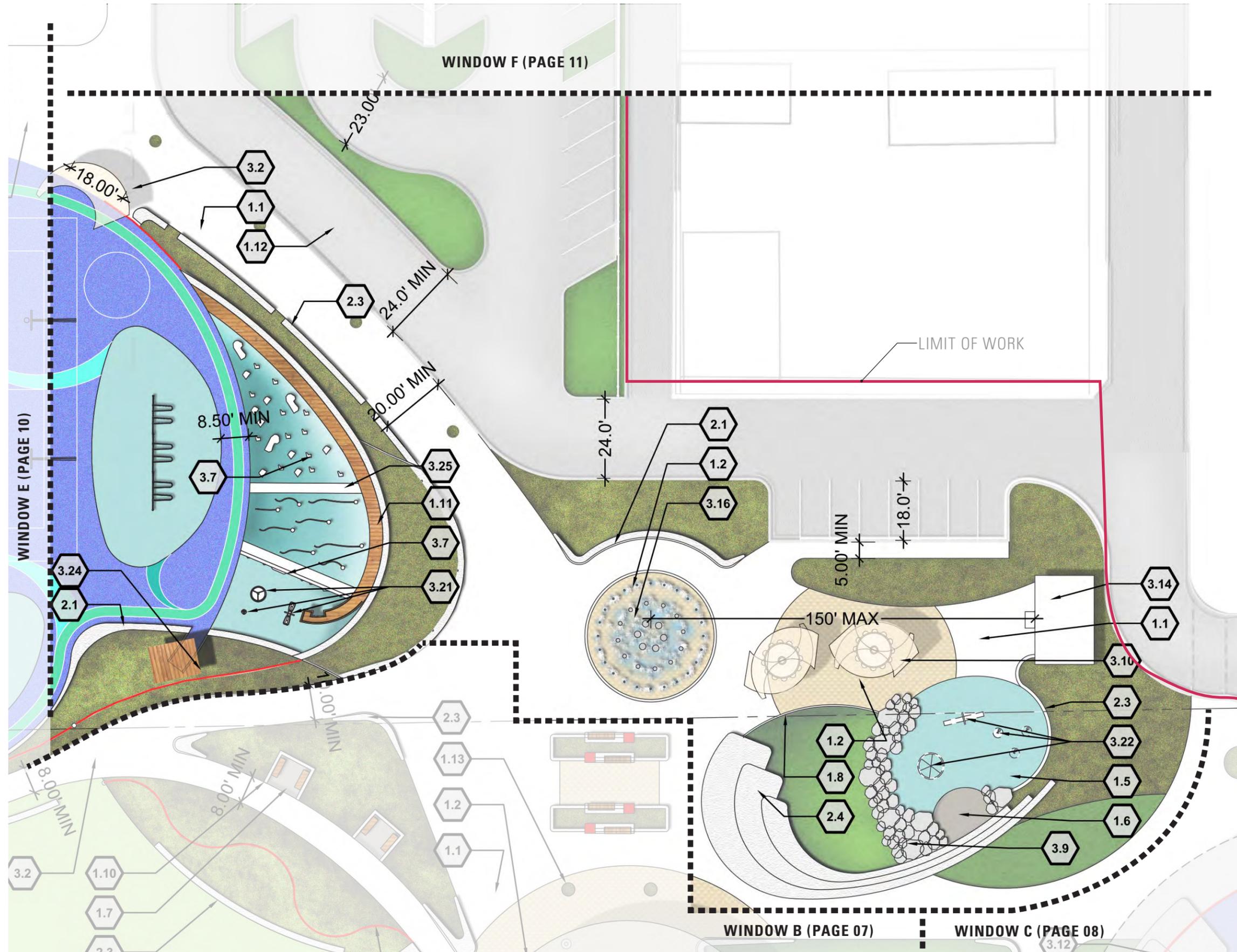
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MATERIALS AND LAYOUT | WINDOW D



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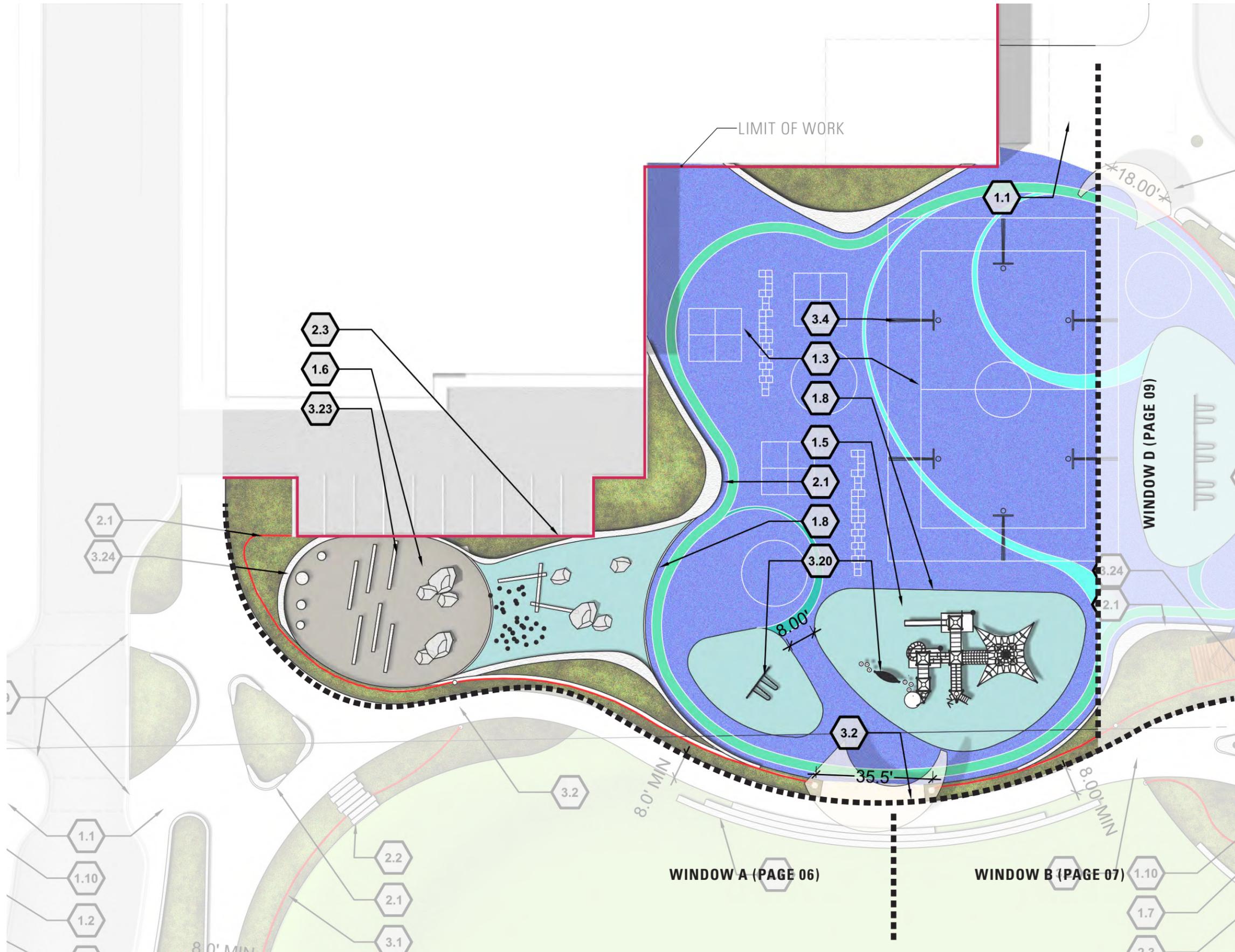
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0 30 60
1"=30'

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MATERIALS AND LAYOUT | WINDOW E



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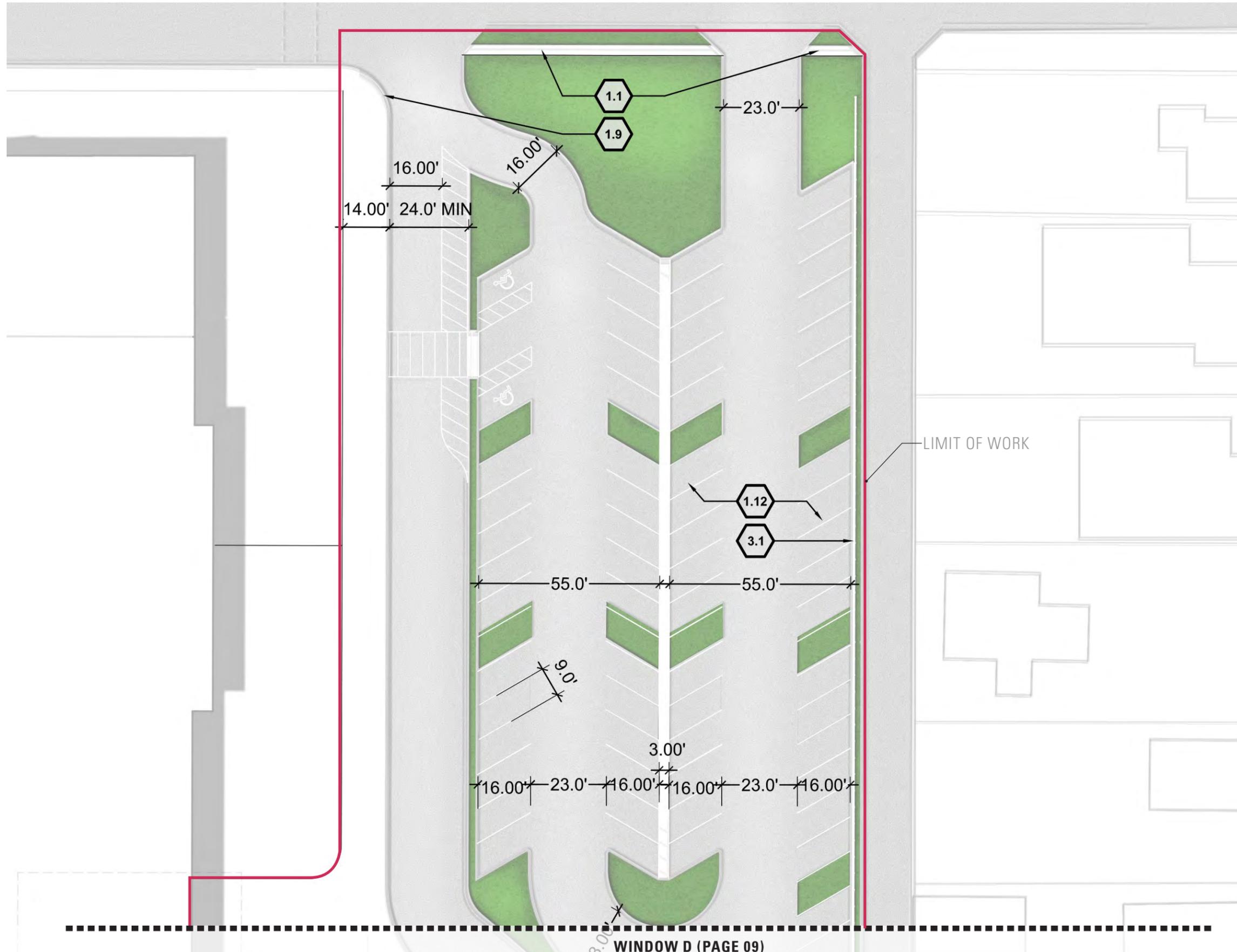
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MATERIALS AND LAYOUT / WINDOW F



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plan with trees and no dimensions

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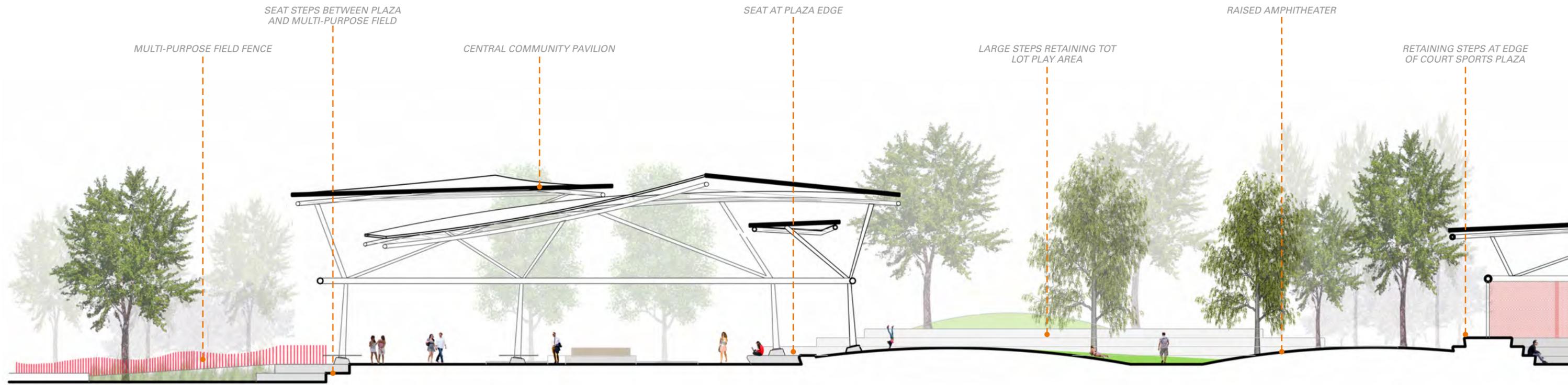


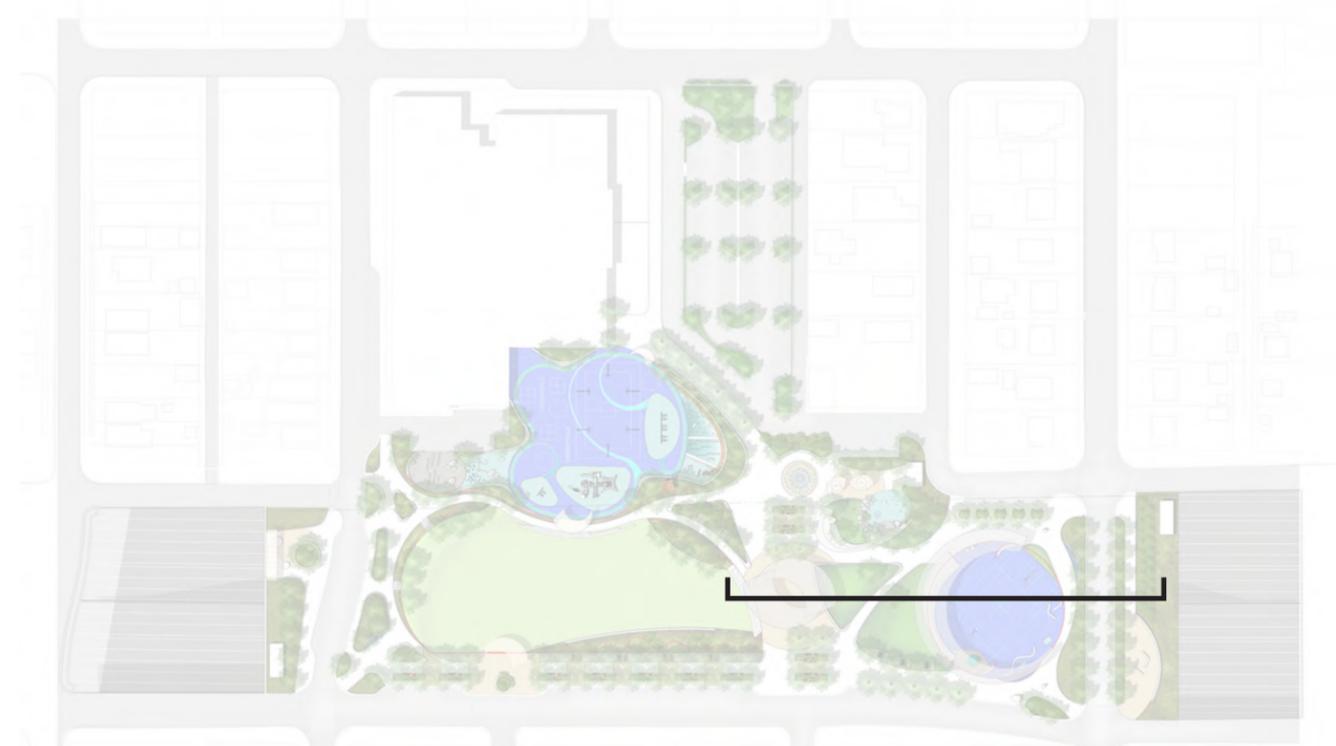
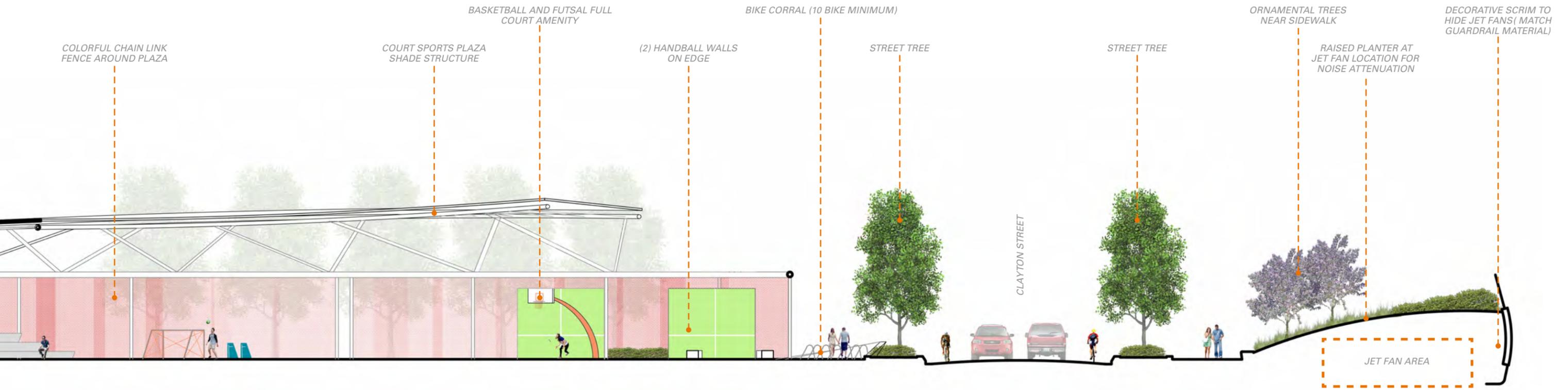
DESIGN INTENT REFERENCE SECTIONS

In this chapter you will find reference section-elevations that graphically depict the expected surface undulation and division of space through topography as well as a representation of key site elements such as pavilions, walls, furniture and planting. Keynotes have been added to the drawings to further relate each section-elevation to the site plan.

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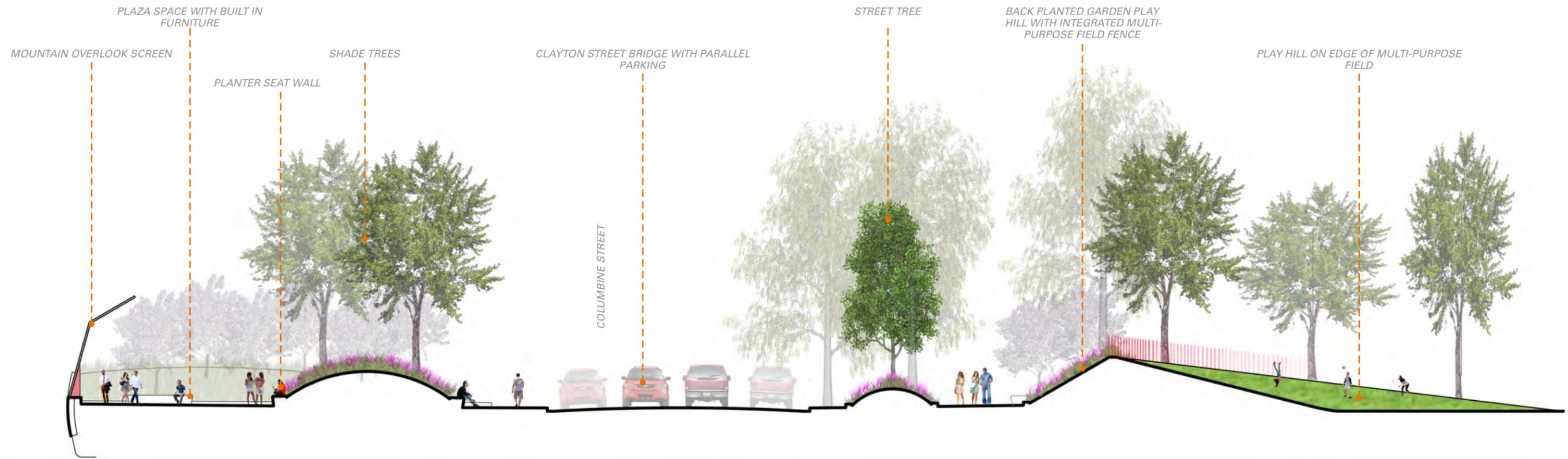
COMMUNITY PAVILION AND COURT SPORTS PLAZA



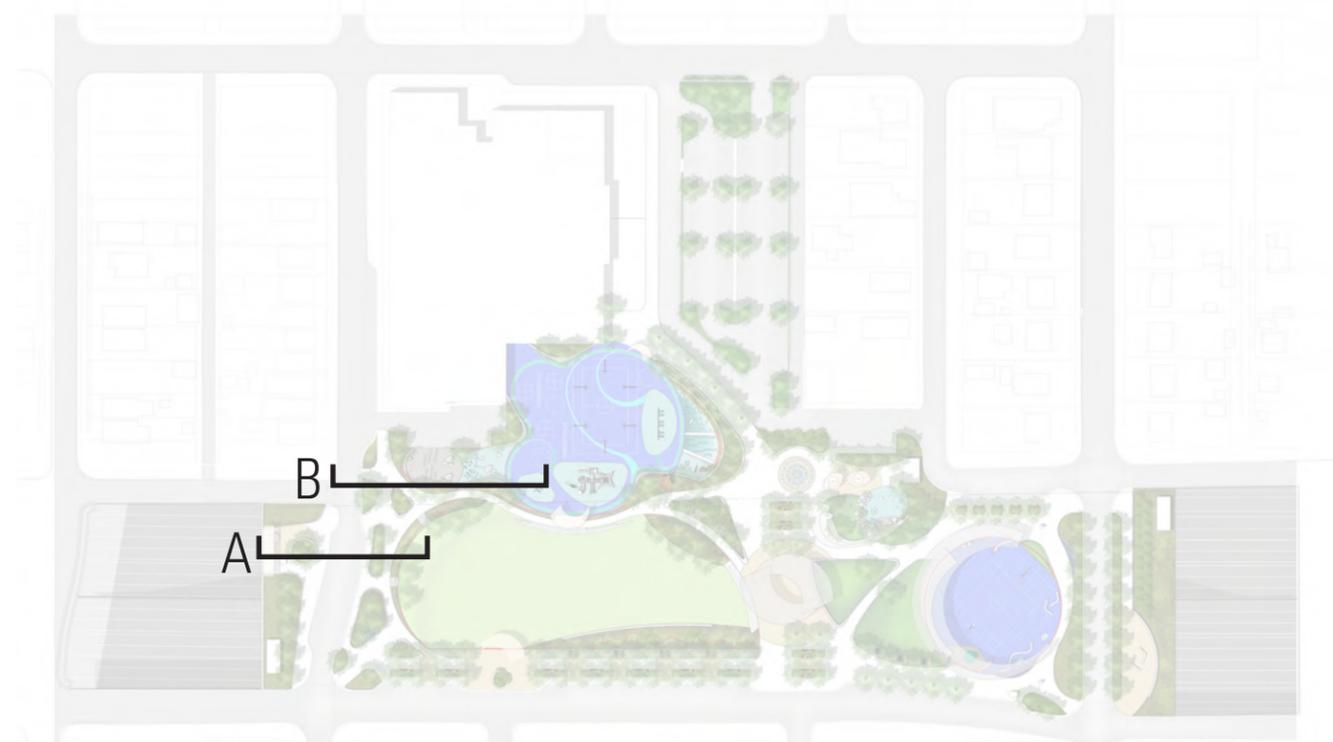
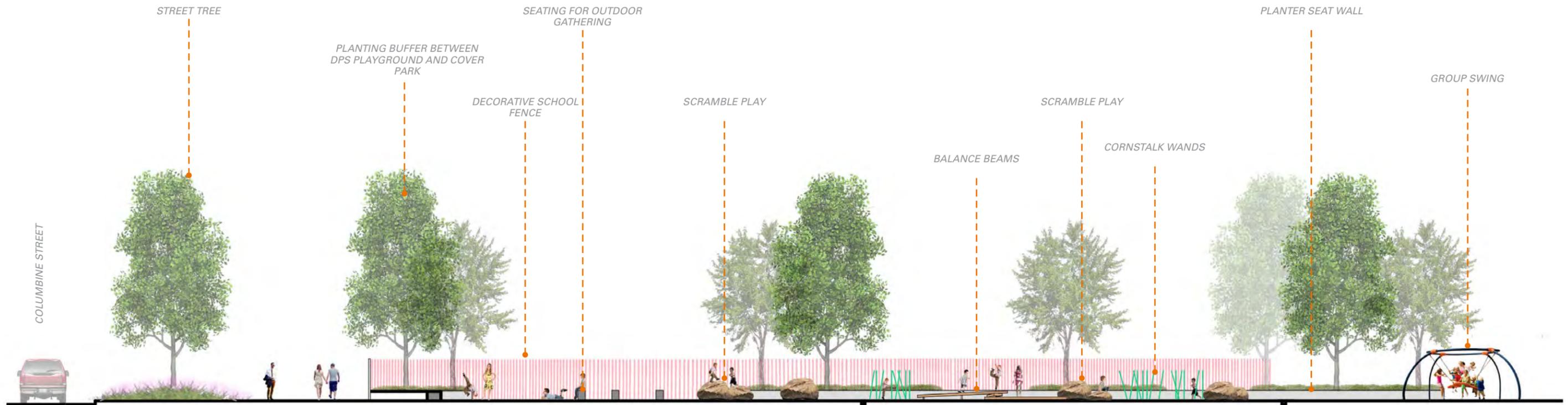


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COLUMBINE STREET GARDENS AND MOUNTAIN OVERLOOK (SECTION A)

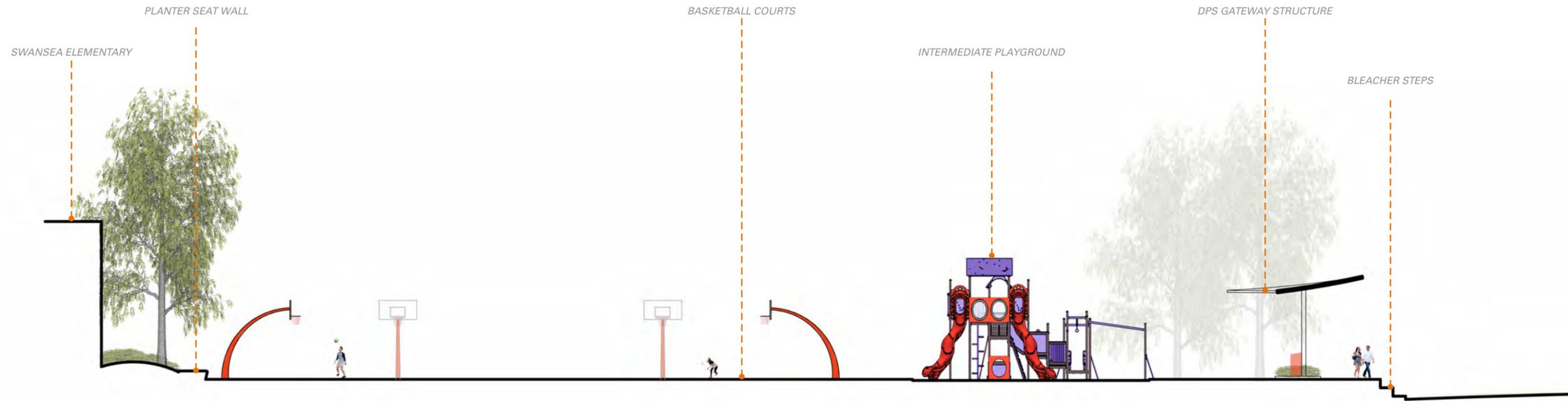


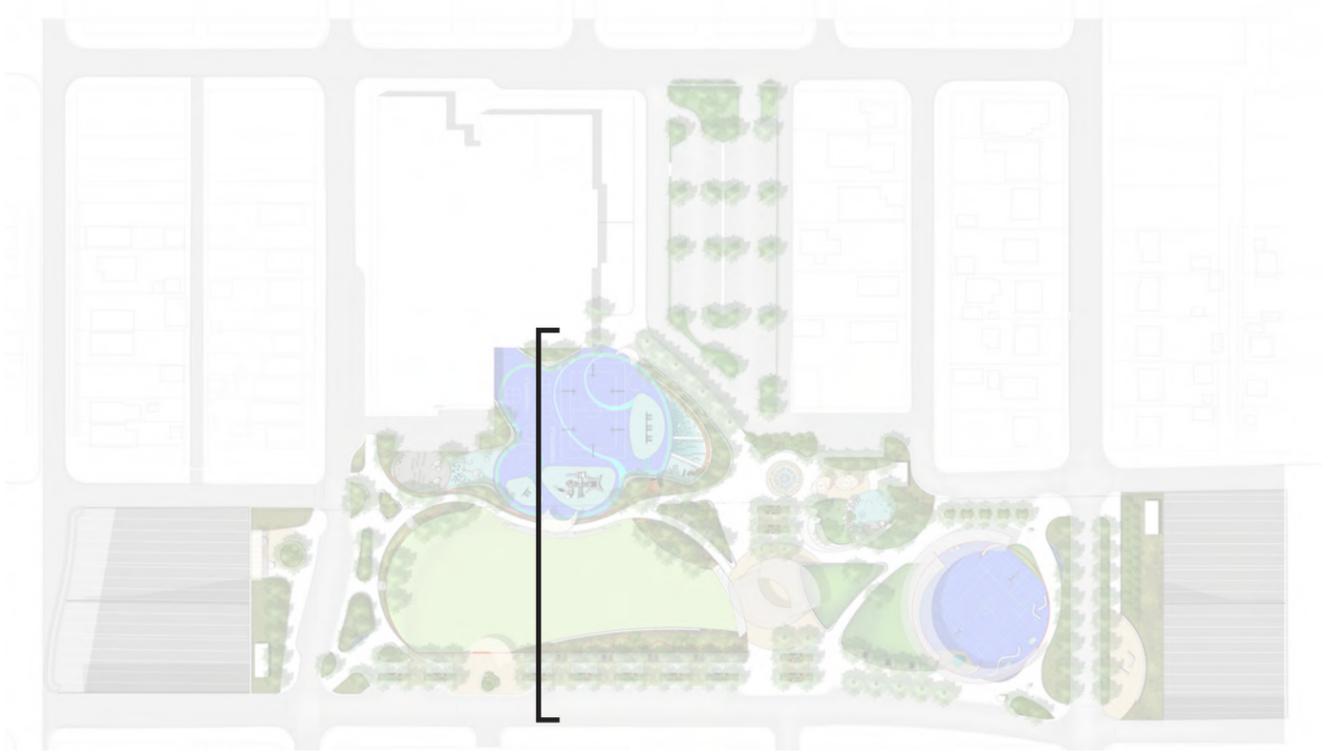
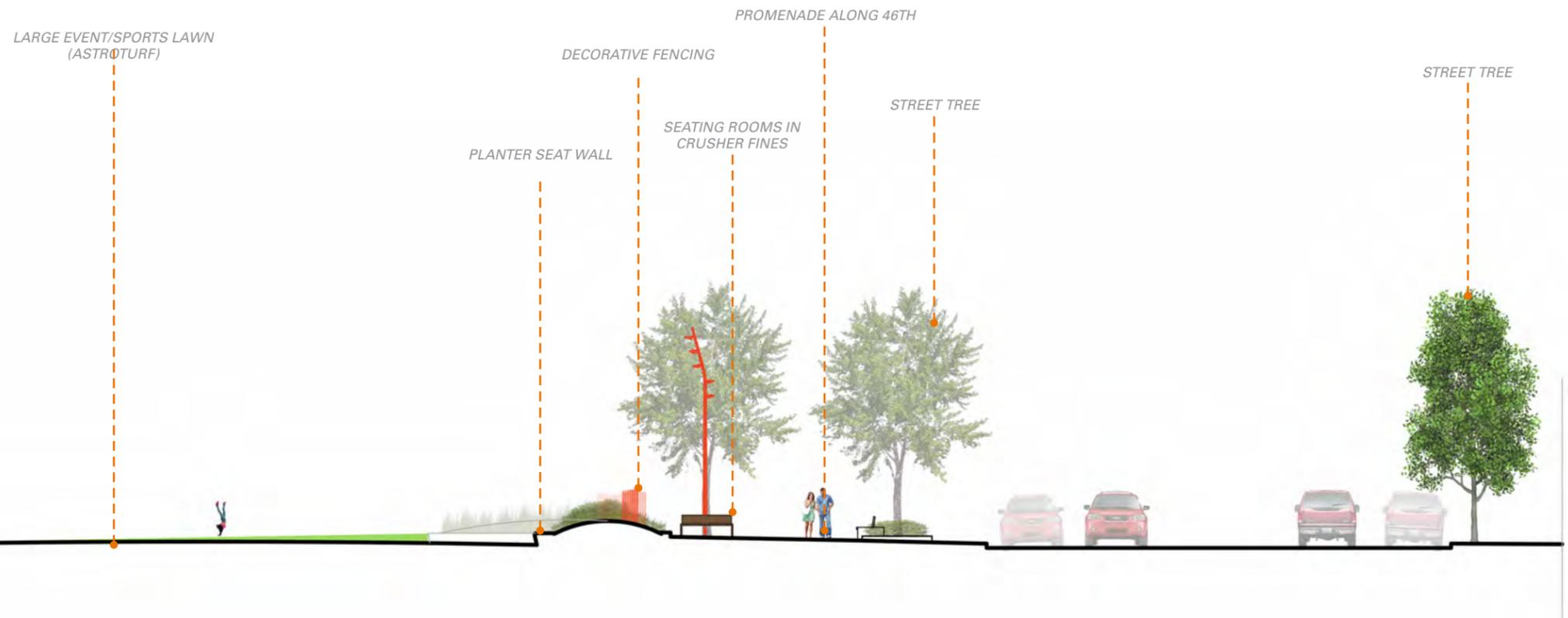
SWANSEA ELEMENTARY SCHOOL YARD ADVENTURE PLAY AREA (SECTION B)



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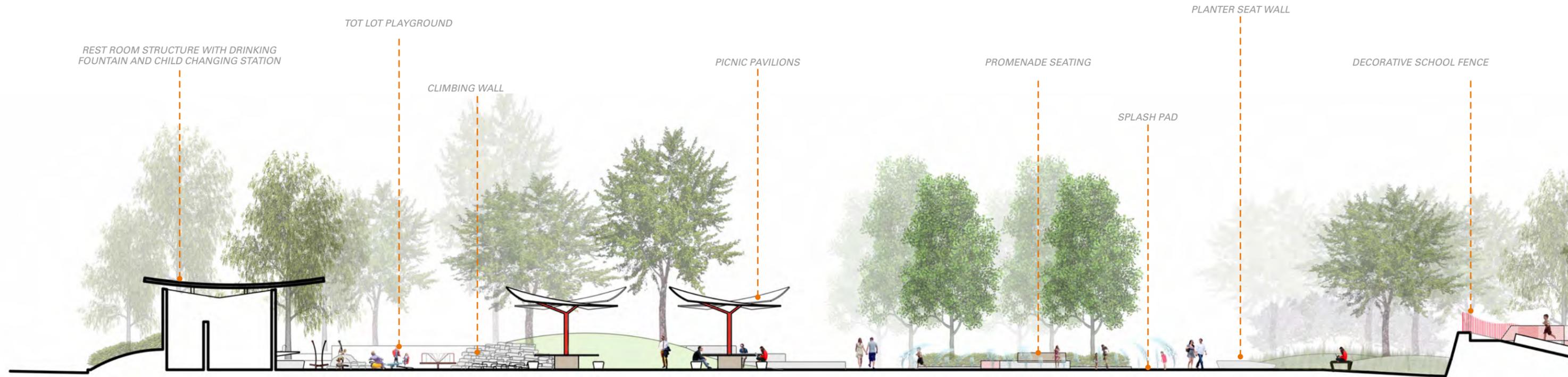
SWANSEA ELEMENTARY SCHOOL AND MULTI-PURPOSE FIELD





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SWANSEA ELEMENTARY SCHOOL PLAYGROUND AND FOUNTAIN PLAZA



RAISED PLAY HILL WITH INTEGRAL SLIDES AND CLIMBING FEATURES

PLANTER SEAT WALL

6 SEAT SWING SET

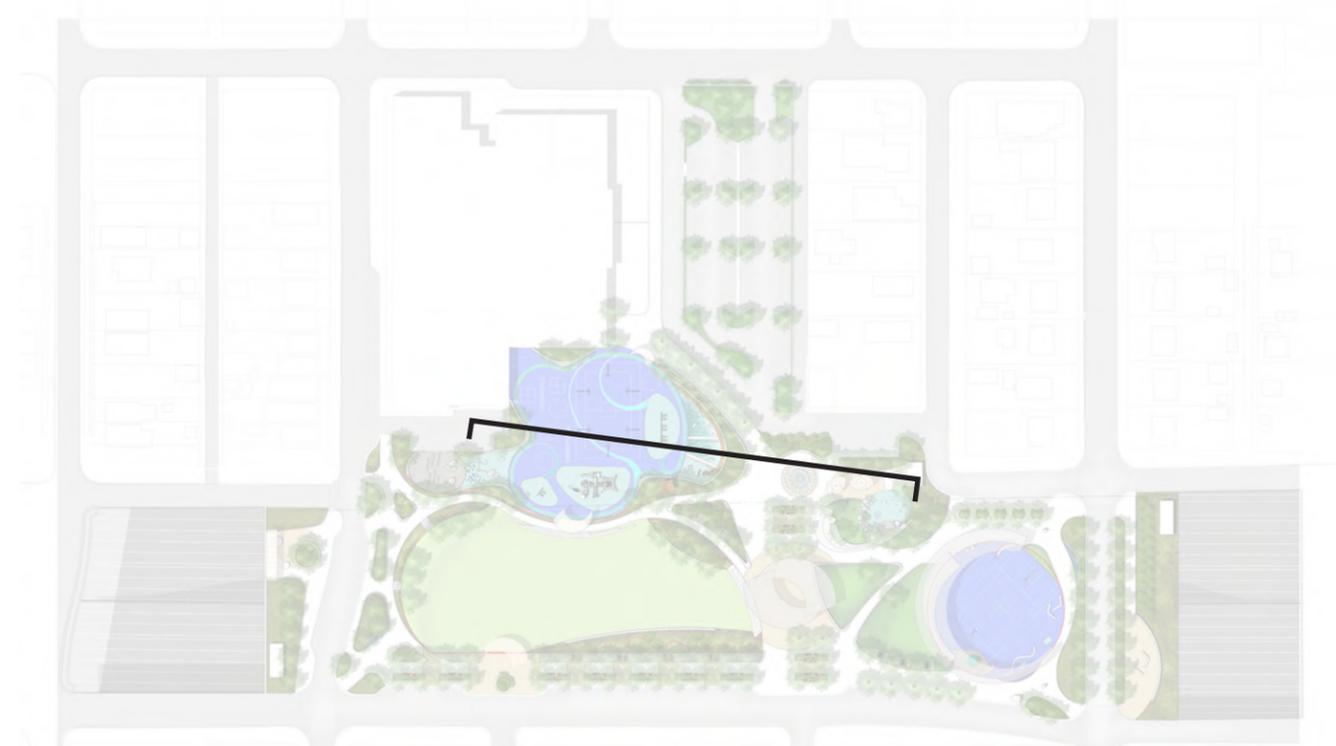
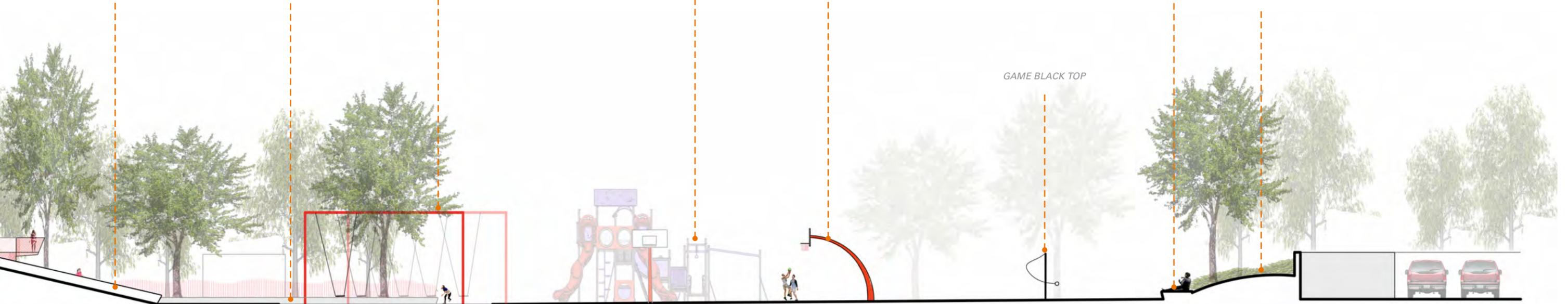
INTERMEDIATE PLAYGROUND

BASKETBALL COURTS

GAME BLACK TOP

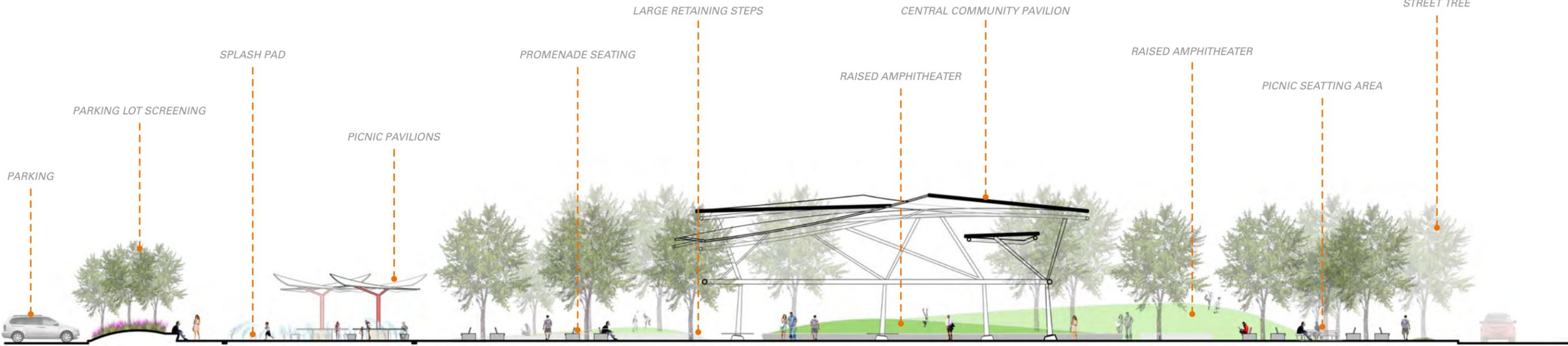
PLANTER SEAT WALL

RAISED PLANTER FOR SERVICE SCREENING

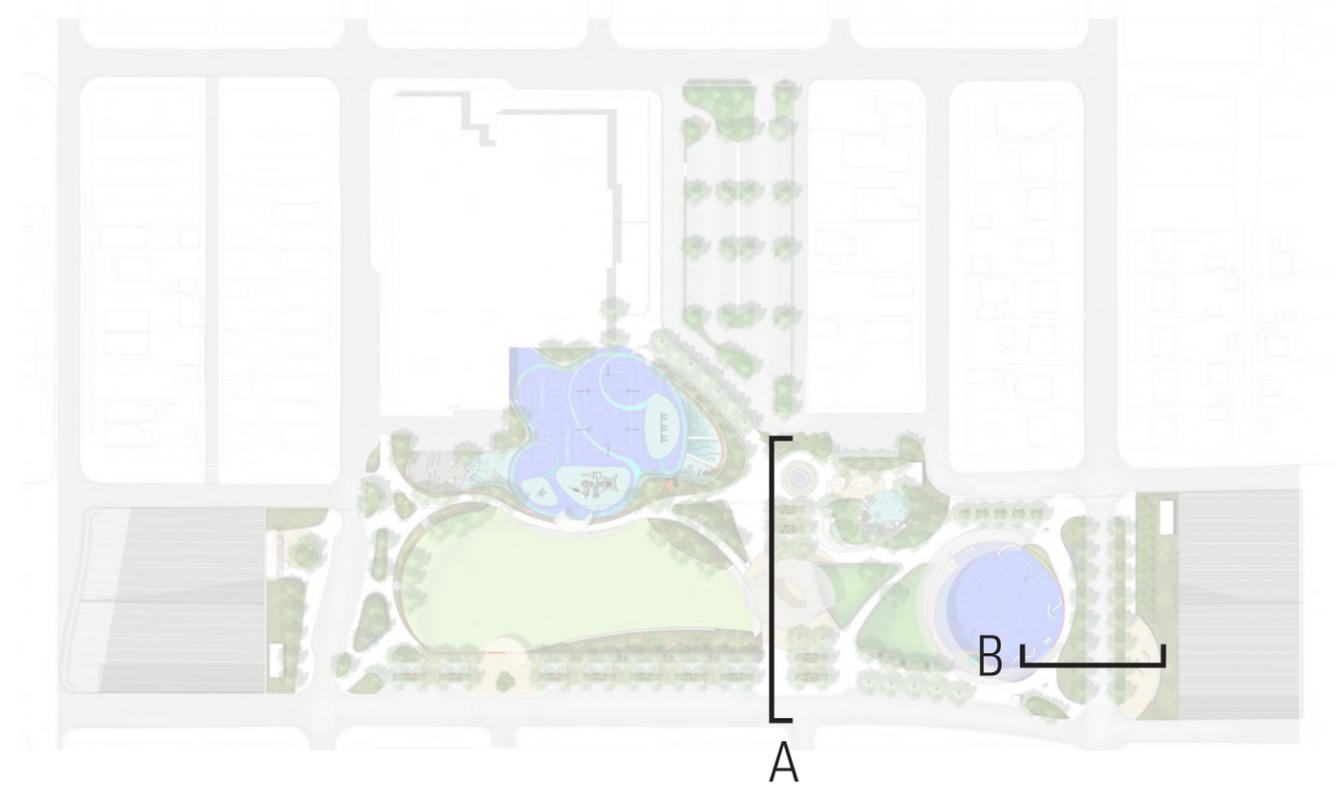
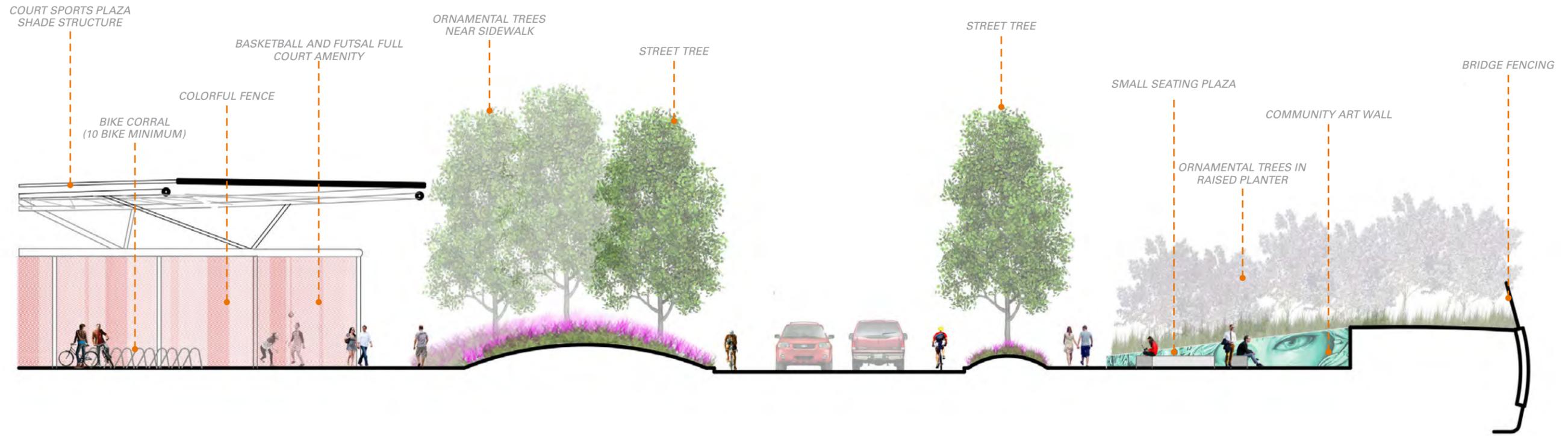


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THOMPSON COURT PROMENADE (SECTION A)



SWANSEA ELEMENTARY SCHOOL AND MULTI-PURPOSE FIELD (SECTION B)



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DESIGN INTENT

3D VISUALIZATIONS

The 3-D visualizations in the following section depict the design intent of various spaces. The materials, furniture, and character depicted are comprehensive in nature and should be used in the design of all elements of the site. Again, keynotes have been added to the drawings to communicate the relationship between the plan views and the visualizations.

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COLUMBINE STREET OVERLOOK PLAZA

Raised Concrete Seat wall around landscape bed. Soil is mounded to provide enough volume for proper tree growth

Landscape berm on southern end of the bridge extension is raised to mask the jet fans below and provide soil for trees and planting

Semi-transparent colored material with large cut outs made of the same clear material offer views below and a far

Large seating plinths offer congregation areas and viewing seats

Raised curb provides extra soil volume and reduces foot traffic through the landscape

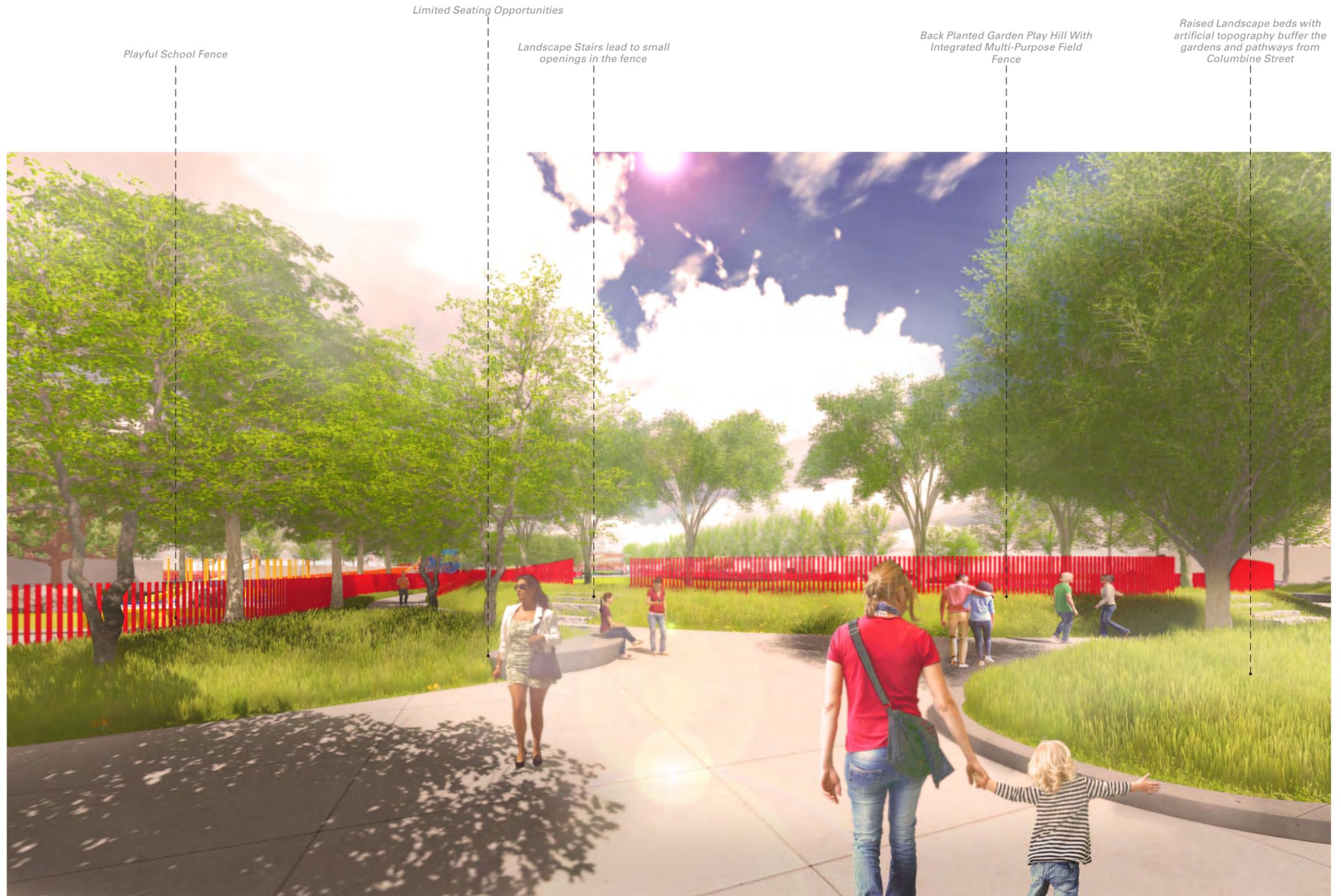


The overlook plaza on Columbine Street offers a unique experience associated with the highway below and the distant horizon. On the southern extents of the cover extension a large landscape berms covers the highway jet fan infrastructure below and surrounds the required maintenance building. The plaza is concentrated to the north and is offset from the street by a raised landscape planter with shade trees. The overlook structure itself is colorful and of a scale that can be seen from the highway below. The material should be durable and resistant to graffiti. The entire structure should be semi-transparent and the circular punctations should be made of the same material but completely transparent. This space is intended to be iconic and will become a meeting spot for the community.



The Columbine Street Gardens are designed to be a pass through space. They buffer the multi-purpose field from the nearby traffic of columbine street. There are limited opportunity for congregation based on the desires of the school. The raised landscape areas should maximize the use of topography to create space and separation from the street and should be planted with highly seasonal perennials and shrubs while allowing for visibility into the field area. The pathways through the garden space will be a main circulation route to school for many children and parents.

At the edge of the gardens is a long arching back planted slope that holds a play hill within the multi-purpose field. The multi-purpose field fence should sit at the top of the slope along the edge of the artificial turf.



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SOUTH WEST PARK ENTRANCE



The entrance at the corner of 46th Ave and Columbine Street enters into the Columbine Street Gardens. A large walkway offers clear views to the multi-purpose field and down a pedestrian promenade. A large bike corral for 10 or more bikes and a informational sign sit within the plaza space. Basic amenities including trash receptacles and seating should be located here.



ELIZABETH STREET ENTRANCE

Color and lighting accents associated with the built-in furniture along the promenade

Low landscape planters offers visibility into the space

Overhead canopy marks the main entrance to the multi-purpose field and reflects the same character of the school

Special pavement marks the entrance from Elizabeth Street

Raised landscape planter with flowering trees

Where Elizabeth Street terminates at the park, a large plaza space welcomes pedestrians and offers the passersby a clear view into the space. A large vertical gateway feature anchors the space and offers a clear threshold into the multi-purpose field. A large raised ornamental landscape planter is surrounded by special pavement and creates a punctuation mark along the 46th Ave Promenade.



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46TH AVENUE PROMENADE

Playful multi-purpose field fence set within the landscape area

Crushed stone strip along the length of the promenade offers a place for furniture and gathering

Pedestrian light poles

Pavement bands create cadence along the length of the promenade

Integrated bench with accent color and lighting element sit within low planted landscape areas

Wide step-out strip for on-street parking



The 46th Ave Promenade is a critical element in the design of the space. It provides a strong shaded east-west pedestrian connection across the cover. Organized around a strong allée of trees, pavement, furniture and lighting are spaced to provide areas for people watching, congregating, sitting alone, or running. On-street parking along 46th Ave buffers traffic from the space while low planted landscape areas offer visibility along the entire stretch of the promenade.



THOMPSON COURT PLAZA

The Thompson Court Plaza is the central gathering space for the park. It offers strong north-south connections across the cover while offering space for both small and large gatherings. The western edge of the plaza has been kept open so that trucks and tents can drive into the space if needed for larger events, while a shaded tree grove on the east offers places for small groups to gather and socialize. An iconic community pavilion is intended to be clearly seen from the street. The plaza should be furnished with tables and chairs and offer many opportunities for pavement-based art or stand alone sculptures.



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46TH AVE FOOD TRUCK PARKING AND PICNIC AREA

The on-street parking spaces along 46th Ave between Clayton and Thompson Court could be managed as food truck parking. Nearby light poles should include power hook-ups

Trees planted in tree grates provide additional plaza space near the food trucks

Tables and chairs should be included in addition to trash receptacles and drinking fountains

Picnic table covers adjacent to community lawn and on-street parking

Crushed stone pavement

Community lawn space and amphitheater



The picnic area at the east end of the 46th Ave Promenade has been organized so that food trucks could inhabit the southern edge on busy weekends or certain events. When events are not occurring the picnic areas are located close to on-street parking and are visible from the street. The eastern end of the promenade varies from the western end in that programed spaces are closer to the street and the planting has been reduced to only trees. This offers a space for activity along the edge of the park that could spill over from adjacent land uses or street events. The community lawn and amphitheater is open to this space and is gently sloped towards the west.



The entrance from Clayton Street and 46th Ave S frames a view of the iconic court sports plaza. Basic services like bike parking and trash receptacles should be located at this corner. The sweeping paths of pedestrian circulation warp around the court sports plaza and offer a unique experience of walking near program elements without getting in the way of the associated activities. The architecture reflects the circulations and offers a strong focal anchor to the eastern side of the park.



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CLAYTON STREET COMMUNITY ART WALL PLAZA



The cover extension on Clayton Street houses a large community mural wall. The space on the northern end of the street is a sloped planting area with ornamental trees sitting above the jet fan infrastructure while the southern portion is a large open plaza where food carts could set up. Low planting along the street edge allows for visibility into the park while offering shade from the western sun. A series of large seating elements sits in the center of the plaza and offers a place for gathering and interaction with the mural wall. This wall should be illuminated at night along with the plaza to increase safety and human comfort.



NORTH EAST CORNER ENTRANCE

The court sports plaza is designed for both action inside and out of the fence. The fence is transparent and inviting, encouraging people to watch their neighbors and friends recreate. The entrance at the north east of the site directly engages with the courts sports plaza and creates a fore court for the recreation center of the park.



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COURT SPORTS PLAZA

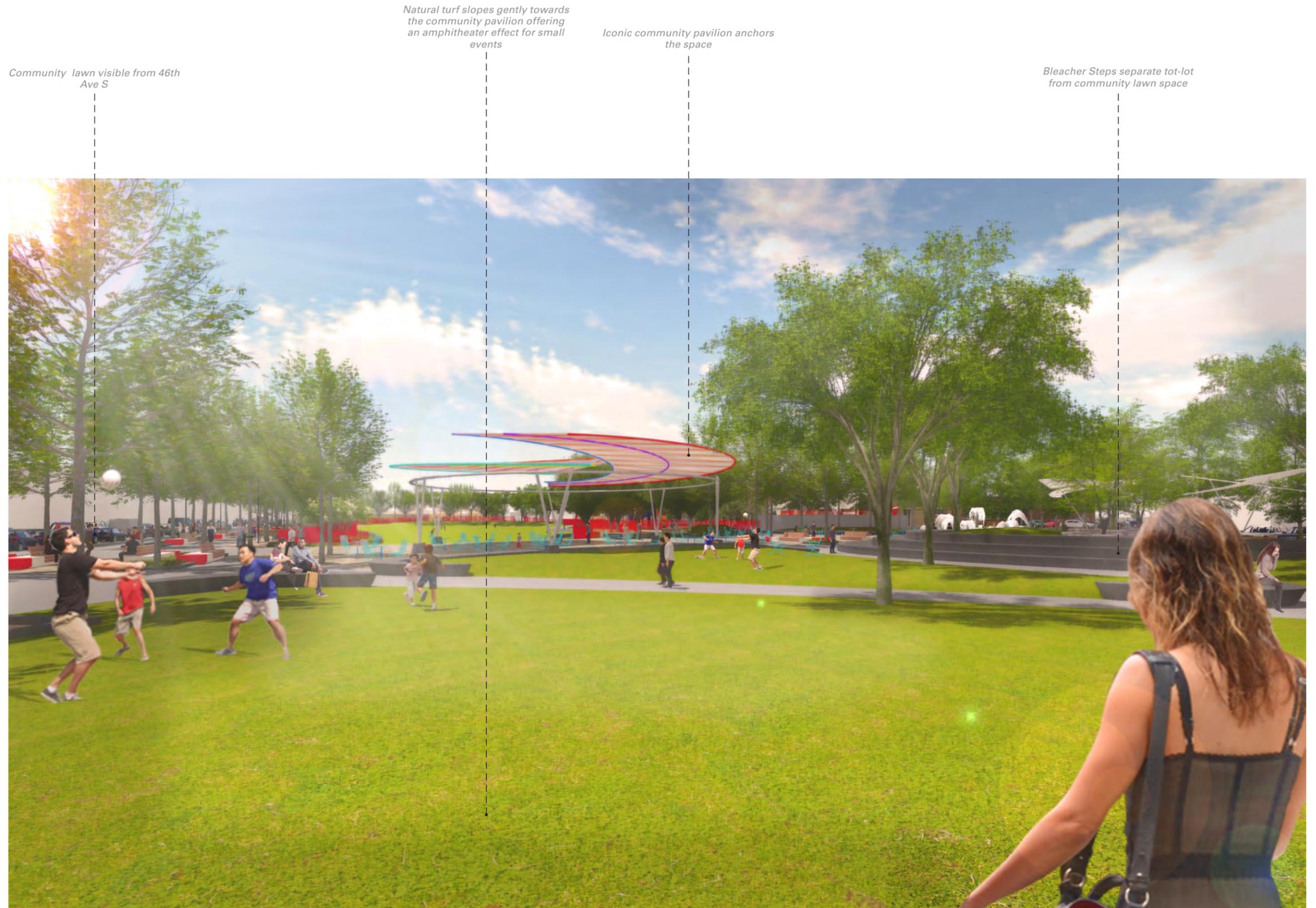


The court sports plaza is one of the centerpieces of the space. The colorful circle includes full size basketball and futsal courts, 2 handball walls, a bouldering rock, ping-pong tables, and skater friendly furniture. This space is sized to support multiple activities at once. Large integrated bleacher steps retain the community lawn and amphitheater to the west and offer an east orientation to watch the various activities that would take place. A shade structure is situated on the western side of the space and could support solar panels on its roof. This space should be well lit for nighttime activities.



COMMUNITY LAWN SPACE AND AMPHITHEATER

The amphitheater and community lawn space offers a spaced sized perfectly for small events such as movie nights or concerts in the park. The community pavilion functions to anchor the space and offer a stage in certain circumstances. The lawn gently slopes down to the west and is retained against the back side of the court sports plaza. When not used for events this space is flexible enough to be used for lawn games or relaxing. Located in the center of the park this space is still visible from the street.



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CENTRAL COMMUNITY PAVILION

Pavilion includes colorful horizontal elements and could include solar panels on the roof

Pavilion Opens to Multi-purpose field

Sun aperture allows for a dynamic shadow pattern throughout the day

Special pavement and tables and chairs provide for a flexible plaza space

Integrated seatwall provides strong edge to the space



The iconic community pavilion at the center of the park offers a 360 degree of activity. To the north and south of the structure are shaded seating spaces and to the east and west are event lawns. Tables and chairs offers the flexibility for the space to clear out and hold events or serve as a central gathering space during other times. Grade change separates the plaza space from the adjacent community lawn space and the multi-purpose field and creates a sense of enclosure without the use of walls. The structure could support solar panels on its roof and should be designed so that it is colorful and uses sun light as a major design element. This space should be well lit at night for all day activities and safety.



WATER FEATURE PLAZA



The splash water feature sits at the junction of many of the major circulation routes of the cover open space. This large interactive fountain can be accessed from all sides and is located near the picnic areas, tot-lot, central pavilion, and school grounds. Tables and chairs supplement the seating around the edges of the space.



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GROUP PICNIC AREA AND PLAY LAWN



In addition the small picnic spaces provided on the south side of the park, two large group picnic spaces with shade canopies provide an opportunity for large groups to gather together. These elements are situated near the sliding hill and the tot-lot and are located adjacent to the restrooms.

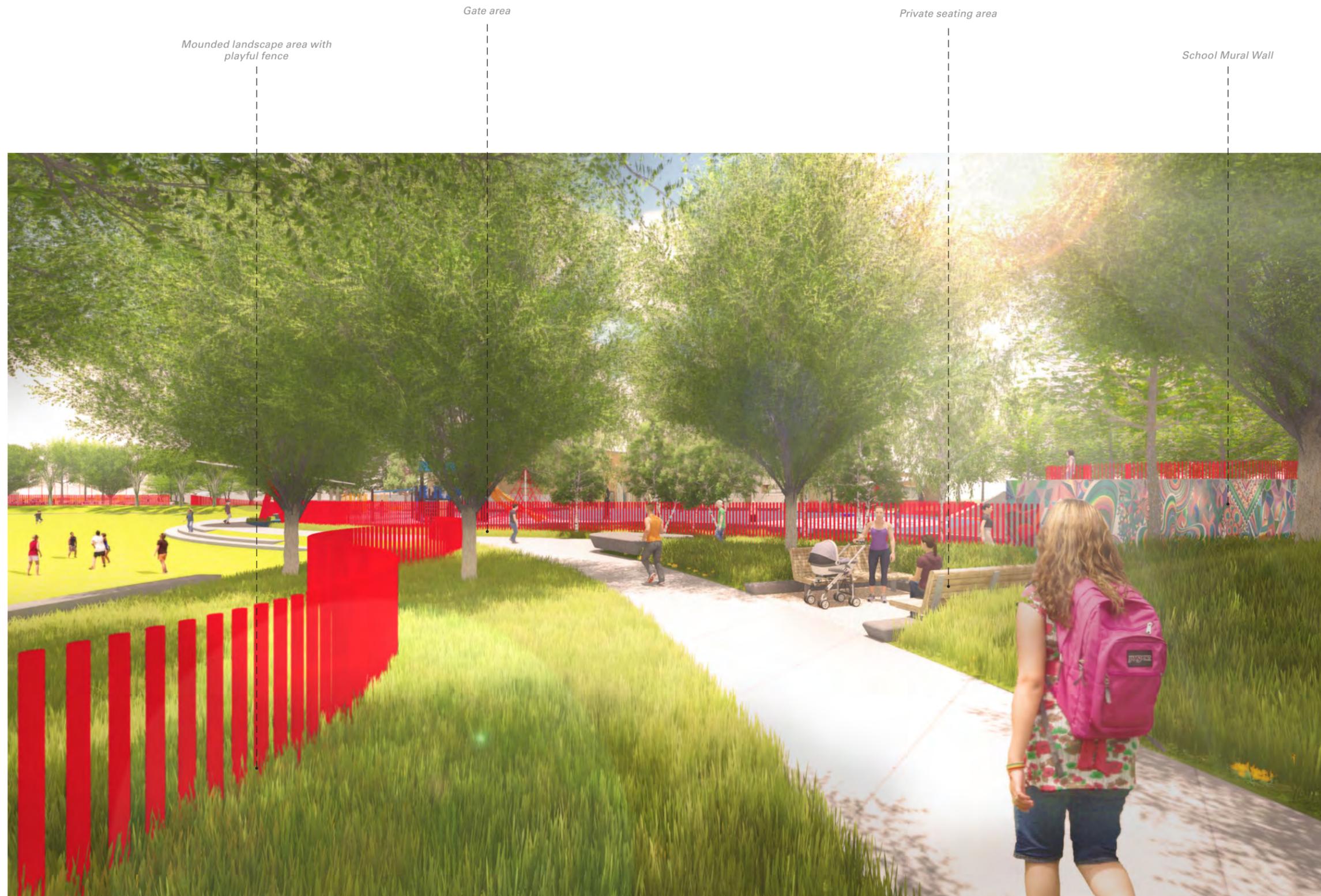


The tot-lot is designed to work in coordination with the school playground. Mostly designed for small children, the sliding hill and climbing rocks offer play for all ages. This space is protected on all sides and is situated next to the restroom building. The back side of the bleacher steps serves as the southern edge of the tot-lot.



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CENTRAL GARDEN SPACE



Located next to the central plaza space is the heavily planted central garden. This space serves as a backdrop to the plaza as well as a shaded passive area. The path through the central garden will serve as a primary circulation route to and from school for many children and adults.



SCHOOL YARD ADVENTURE PLAY AREA

Located on the western side of the Swansea Elementary playground the natural play space offers an unconventional series of play elements including boulders, balancing beams, and play poles that encourage creative play. This space is also intended to be used for outdoor classroom activities.



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CHILDREN'S DROP OFF AND SCHOOL YARD ENTRANCE



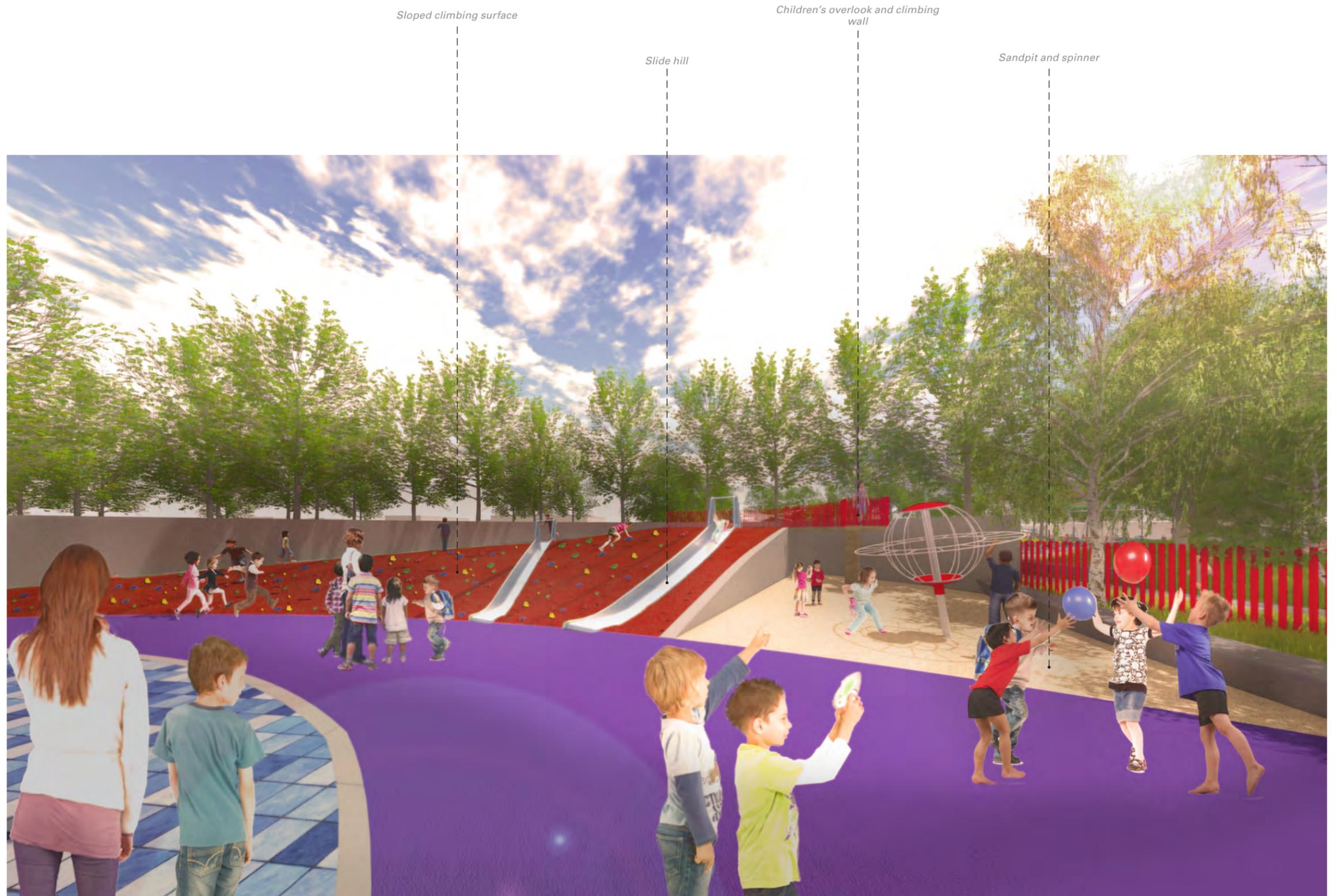
With the reconfiguration of the Swansea Elementary front door on the east, a new drop off area and entry plaza are provided. A large plaza space at the front of the school allows for adequate spill out space while the drop off lane is serviced by a shaded path and seat wall. The playful fence element transitions into a vertical gateway feature at the school yard entrance.



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SCHOOL YARD SLIDE HILL

On the eastern side of the school yard between the parking lot and the rest of the play space is the large sloped play hill. This space not only buffers the parking lot from the playground but offers slides, climbing elements, and a elevated overlook for children to explore.



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SCHOOL YARD



The Swansea schoolyard is seen as an integrated part of the overall park design. The character and circulation must work together for both spaces. The school yard should be considered an extension of the park during non-school hours and the multi-purpose field is seen as an extension of the school during school hours.



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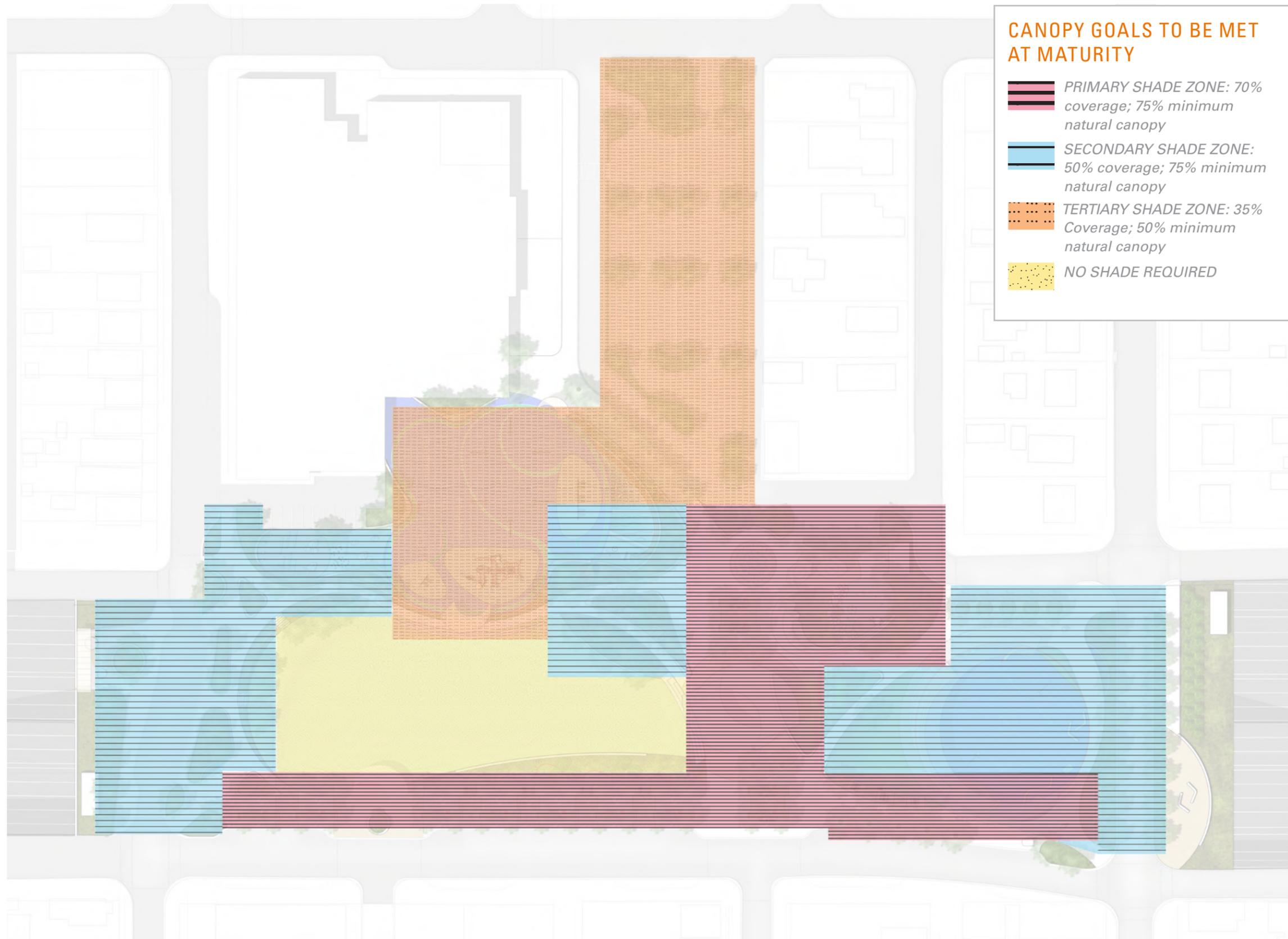
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DESIGN INTENT DIAGRAMS

The purpose of this chapter is to provide additional information regarding the design intent through a series of diagrams.

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SHADE AND CANOPY DIAGRAM



CANOPY GOALS TO BE MET AT MATURITY

-  **PRIMARY SHADE ZONE: 70% coverage; 75% minimum natural canopy**
-  **SECONDARY SHADE ZONE: 50% coverage; 75% minimum natural canopy**
-  **TERTIARY SHADE ZONE: 35% Coverage; 50% minimum natural canopy**
-  **NO SHADE REQUIRED**

DESIGN INTENT

Shade plays a critical role in the success of these spaces. The concept for shade and canopy design on the cover and associated public spaces includes a combination of both natural and structured canopies to provide the greatest short and long-term benefits for park users. The shade and canopy diagram indicates where flexibility in the use of natural versus structured canopies to meet the goals of the project and the community.

The shade strategy maximizes programming opportunities and park usability by providing the following benefits:

- » Lowers ambient temperatures in the park, creating a cooler environment for park users seeking relief from the sun
- » Lowers surface temperatures of walkways, landscape, and play surfaces
- » Decreases park user exposure to ultraviolet rays
- » Increases the life-span of surfacing materials by protecting surfacing from sun damage

TREE DIAGRAM



TREE TYPE

-  *Deciduous Shade*
-  *Ornamental*
-  *Evergreen Trees*

DESIGN INTENT

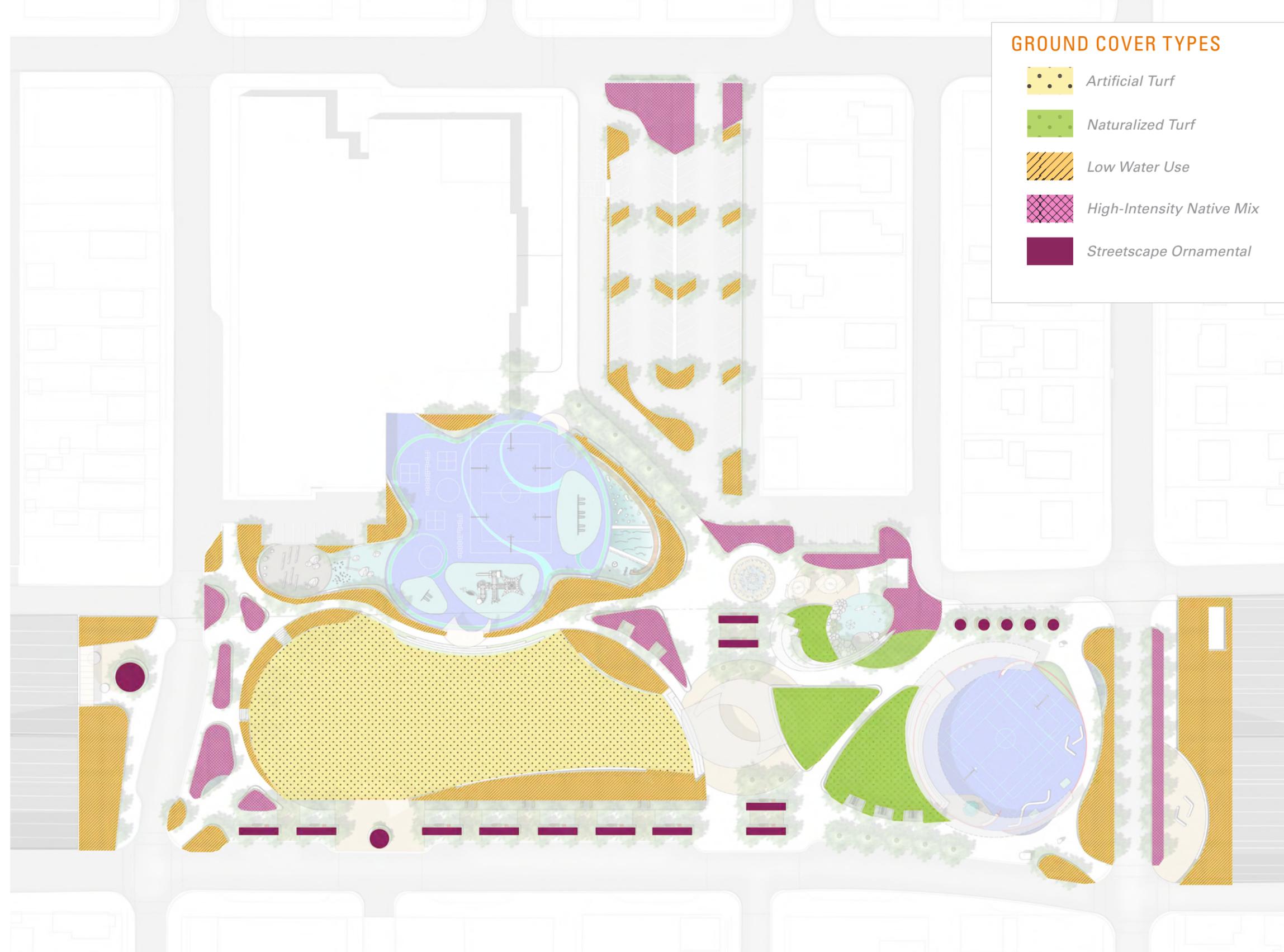
Tree canopy is a critical aspect for both shade and designed spaces. The trees have been concentrated in key areas so that a more efficient structural system can be achieved. Hardy species should be selected that are proven to work in urban environments in arid climates. The critical element in the proper growth of trees is soil volume which can be achieved in a number of ways. Through the use of artificial topography, raised planters, and other structural systems un-compacted quality planting soil should be provided for every tree. Trees planted near each other can share soil volume to achieve the needed number. Ornamental trees should be used only for aesthetic purposes as they do not provide the needed shade and space creating intent.

METRICS

750 CU/FT MINIMUM
SOIL VOLUME PER TREE

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GROUND COVER DIAGRAM



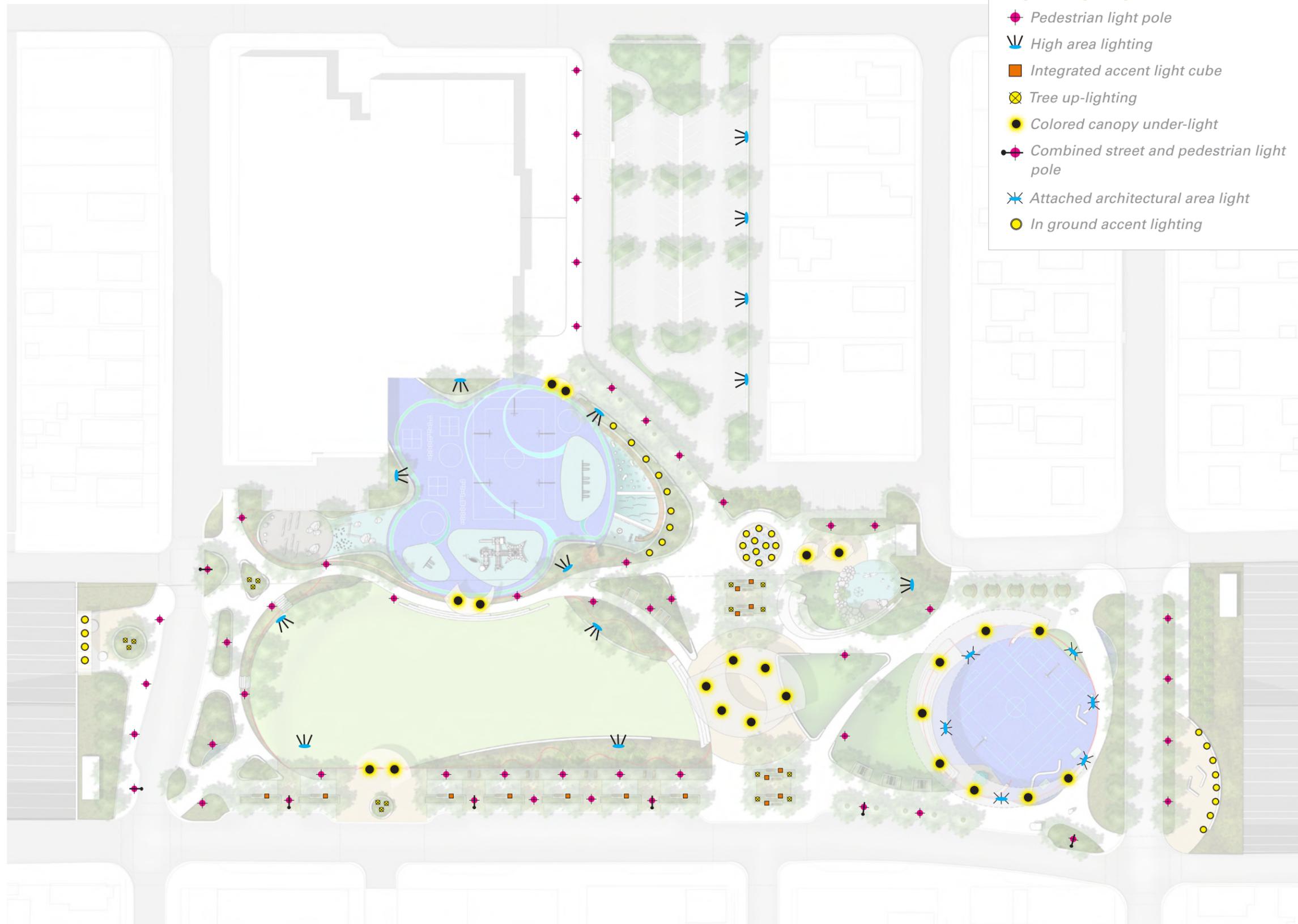
GROUND COVER TYPES

-  *Artificial Turf*
-  *Naturalized Turf*
-  *Low Water Use*
-  *High-Intensity Native Mix*
-  *Streetscape Ornamental*

DESIGN INTENT

The ground cover treatments for the space are intended to be simple and robust. Most areas should receive a naturalized plant palette that requires little maintenance and water with more intense planting saved for key garden spaces. Natural turf should also be used sparingly because of the required water and maintenance needed to ensure its long-term health.

SITE LIGHTING



LIGHTING LEGEND

- ◆ Pedestrian light pole
- ∇ High area lighting
- Integrated accent light cube
- ⊗ Tree up-lighting
- Colored canopy under-light
- ◆ Combined street and pedestrian light pole
- ★ Attached architectural area light
- In ground accent lighting

DESIGN INTENT

Lighting plays a critical role in safety and overall character of the site. This space will function throughout the evening hours and, because of its proximity to the school, safety is of great concern. Pedestrian level lighting should be provided across the entire space with key features such as trees, architecture, and art being highlighted.

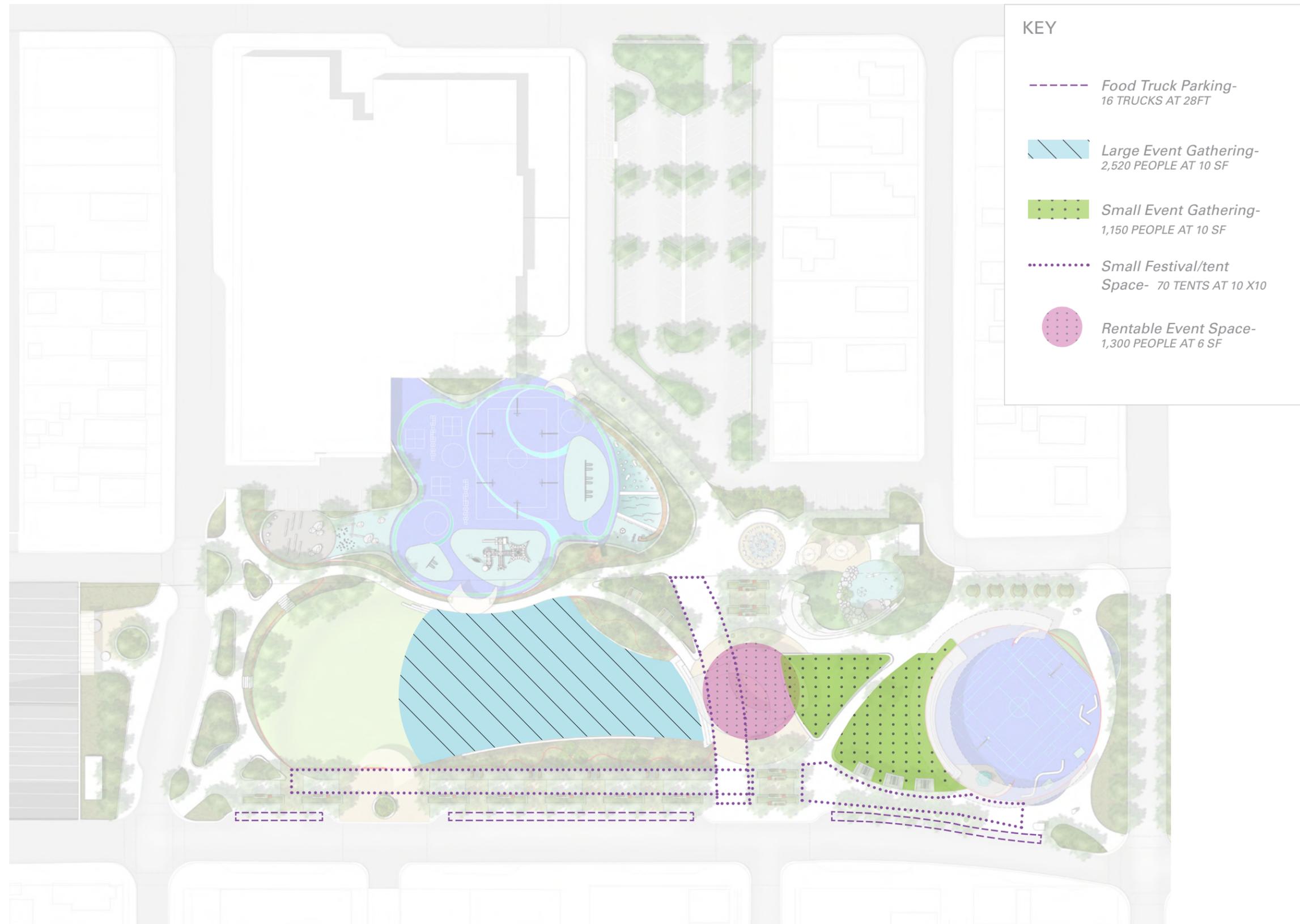
100% OF FIXTURES USED ARE TO BE LED

MINIMUM **1.0 FOOT CANDLES** ON ALL MAJOR PATHWAYS AND GATHERING SPACES

50% OF POWER FOR LIGHTING TO BE SUPPLIED THROUGH ON SITE SOLAR GENERATION ON SITE

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PROGRAMMING DIAGRAM

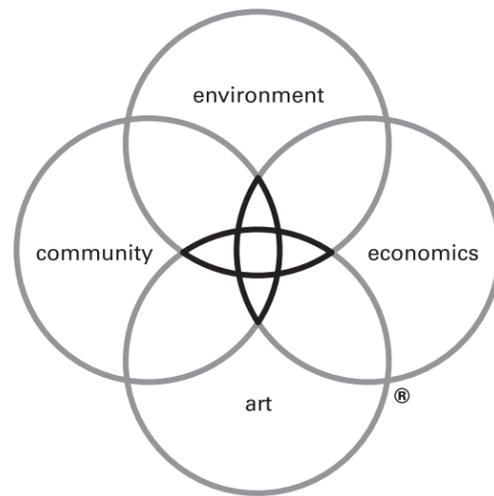


DESIGN INTENT

All aspects of the design have been driven by the uses of the space. The way that events use this space should be taken into considerations when planning structural systems as well as event utilities and other infrastructure such as electrical hook ups and water and waste.

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