

Jackson Middle School

Tree Planting and Education Options

Alder Grove

This grove would focus on a very steep grass area on campus where mowing is difficult. Alders would be planted 8' on center and allow for future understory planting.

Restoration

Teachers and students have been successful in restoring a portion of their school site. There may be a future creek daylighting project adjacent to the current restoration site. Planting could include habitat creation with a focus on food/water and shelter provisions (bird houses, shrub thickets, brush piles). These would tie back to classroom ecology and habitat studies.

Native Specimen

This native tree planting would focus on an upland riparian zone above the future creek path. Tree planting has been unsuccessful in this location previously. A strict watering plan with drought tolerant species would be utilized.

Conifer Specimen Trees

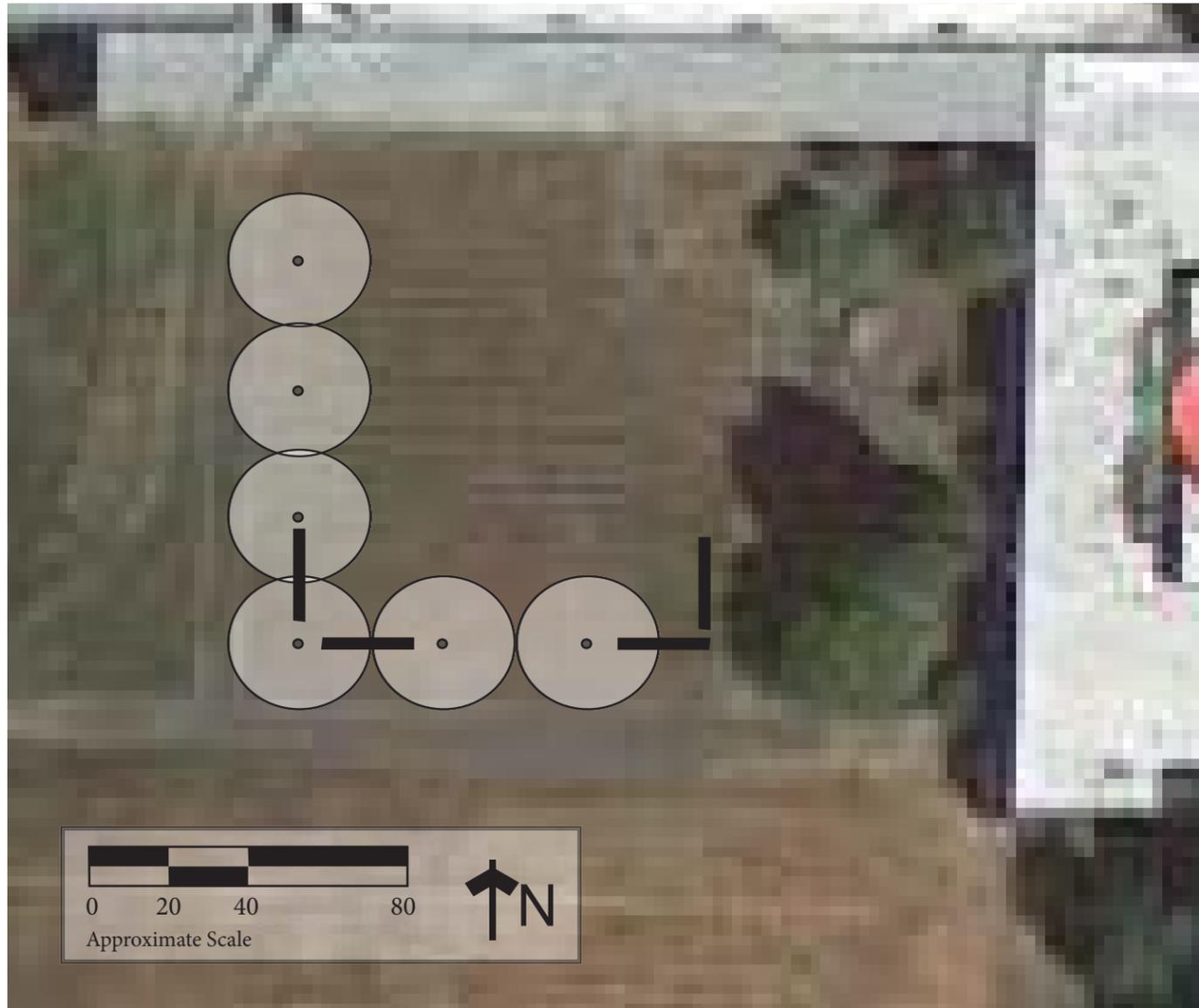
This area would focus on providing an educational group of conifer trees. The area has water runoff, and evergreen trees could help reduce winter runoff from the site.

1-5-15



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Specimen Shade Tree & Seating Area

This grove would focus on planting shade trees for the open grassy activity area while providing a few clusters of log seating areas for passive play and learning.

Seating would focus on 4 Type A seatings logs. Logs would be set between trees.

Tree themes may include:

- Oak tree family
- Spring flower trees
- Trees with a wide variety of seed types



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Specimen Tree Plantings

This tree planting takes advantage of the large grassy areas next to the ballfield. Specimen tree groups could be all one species or feature a certain theme; oaks, shade trees, evergreens, etc. The trees would break up the large lawn expanse without interrupting recreational play. They also would provide shade for spectators.

Native Trees Trail

This crushed rock trail formalizes a user-made trail on site and provides an accessible route around the school. It would feature a small group of specimen native trees.

Alder Grove and Sitting Area

The grove of alder trees would provide a special place on the playground for groups to sit and relax. The tightly planted alders (5'-8' on center) would be planted in a small grid and would be surrounded by a bark chip area. Trees would need to be limbed to maintain views across the grove. Three 'Type A' seating logs are proposed in the grove. They would be set into the ground and provide seating opportunities.

Lynchview Elementary

DRAFT Tree Planting and Education Options

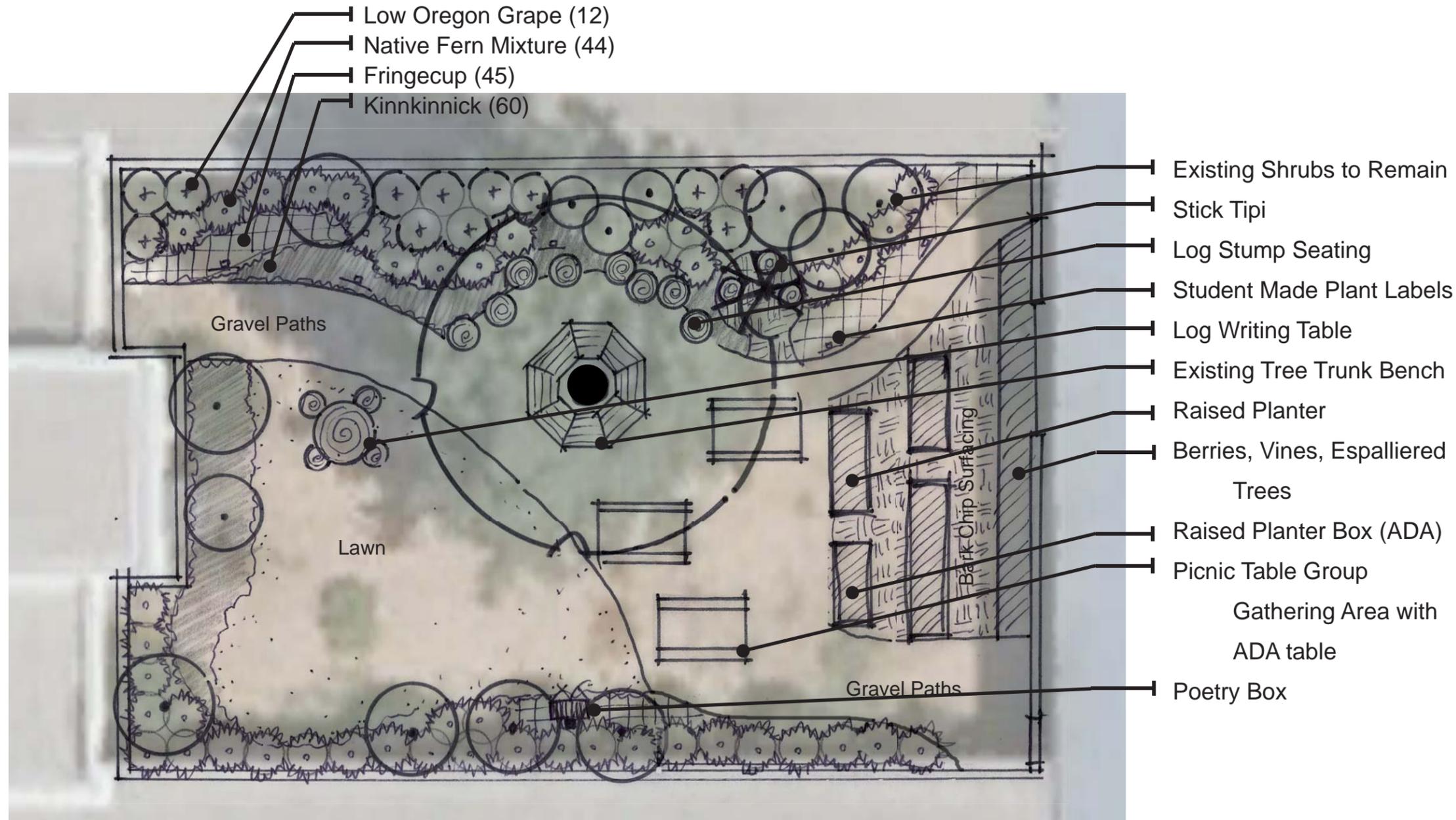
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Lynchview Elementary

Reading Courtyard Design



Reading Courtyard

This quiet courtyard opens off of the school's library. The existing mural features Dr. Seuss's *The Lorax*. The school is interested in enhancing the courtyard into a reading garden for students. There is an existing shade tree and some large shrubs and small trees.

The proposed design preserves the existing shade tree and seating at the trunk. It adds a distinct crushed rock circulation system that maintains access to exit doors and creates a central gathering space. Seating logs add additional private or small group seating.

The existing shrubs can be thinned and limbed up to allow for native understory plantings along the courtyard edges. These plantings can be seen from inside classrooms as well. A lawn area provides flexible seating for groups. The feature garden at the far end of the courtyard could have edible garden beds including space berries, and espallier trees.



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Stumps for Seating



Poetry Box – student made and filled



Sign Holders – for student made plant identification signs



Stick Tipi – Small group reading area, cover in native vines



Picnic Table



Native Planting



Raised Garden Beds



Log Table and Chairs

Lynchview Elementary

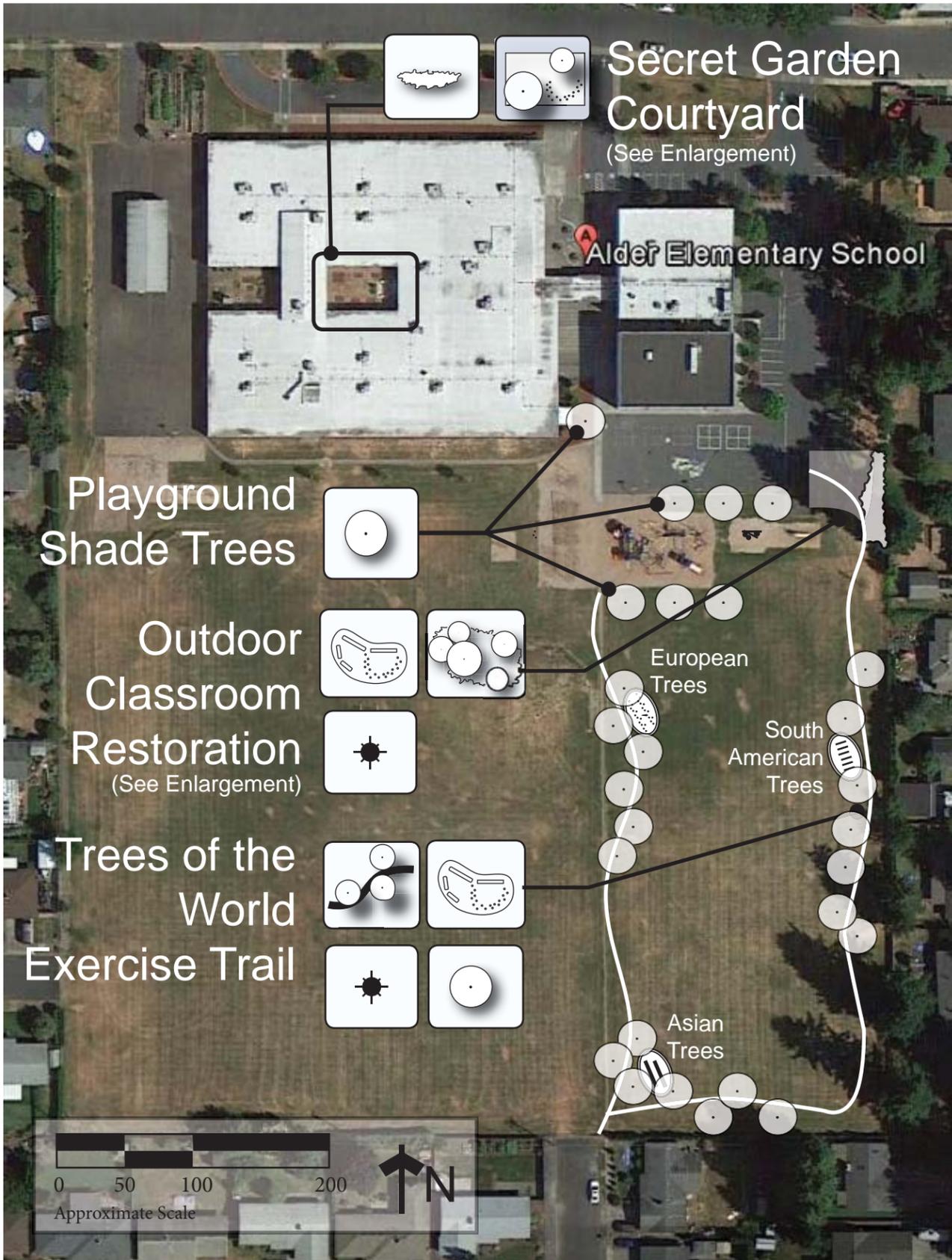
Reading Courtyard Design

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Playground Shade Trees

The playground is located adjacent to a west facing brick wall and asphalt parking lot. On a sunny day the area warms up quickly. Strategic tree plantings would cool the area and add natural interest.

Trees of the World Exercise Trail

This new trail would establish a user-made connection while featuring themed specimen tree plantings and log clusters. Each tree planting area would include trees from a certain world region. Each log cluster would target a physical activity that could engage students. Activities could be coordinated with Playworks games and program. The clusters could also serve as casual sitting spaces. Below are some proposed activities.



Side to Side Shuffle



Jump Over



Step Ups



Jump or Mtn. Climber Log

Alder Elementary School

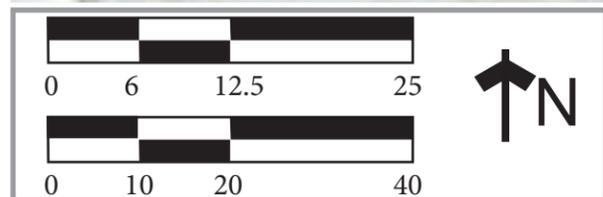
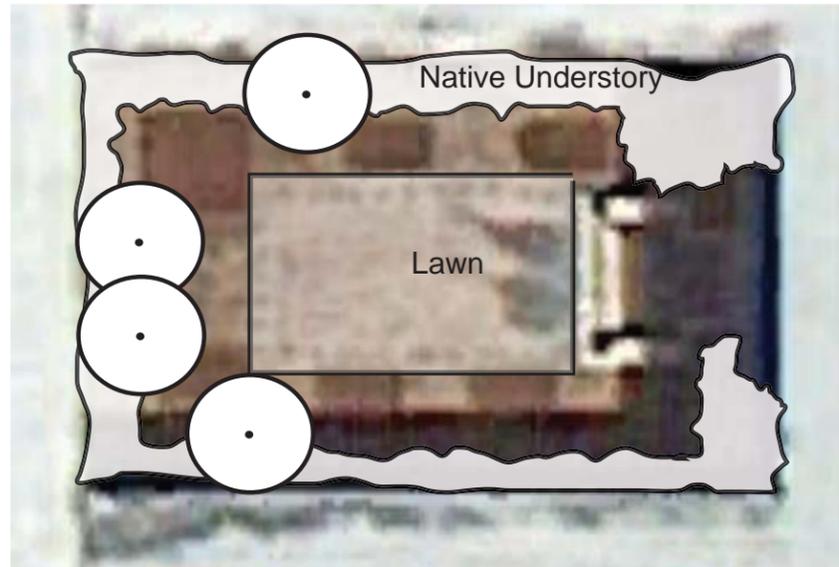
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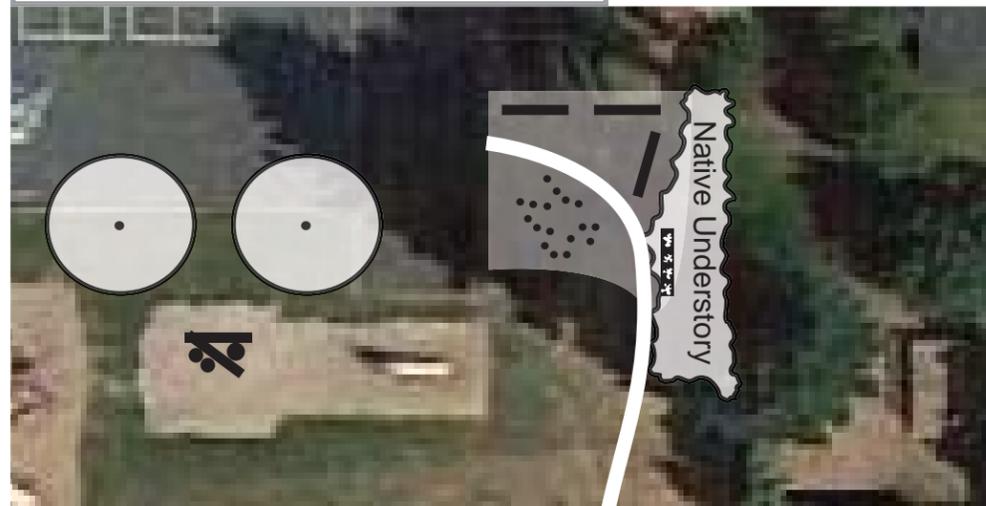


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Approximate Scale



Secret Garden Courtyard

The secret garden courtyard is a hidden gem in the school. Its access is through an office. For that reason programming is limited, but many classroom windows open onto the space. An existing paved area allows for seating, and a handful of garden beds exist.



We propose a few small trees to be added for shade and to break up the stark walls. Also, the native understory could be enhanced with low growing, easy to care for natives.

Photo of existing condition

Oregon's Outdoor Classroom

On a hot day the students already escape the sun in this peaceful and shady area. It is close enough to the playground to be included in daily playground use and the size is manageable and easy to oversee.

A bark chip area with three 'Type B' cut log benches is proposed. Additional seating will be provided by 20 'Type C' 12"x12" loose stumps for sitting. It is our understanding that the SUN school could use a small native restoration area with educational features. We have included a 'nurse log' feature for their use.

In the adjacent empty chip area, a log cluster has been added for climbing and sitting. Logs for active uses require a different approach. Impact-attenuating surface (existing) must be placed in all 'use zones' around the logs. To ensure stability logs should be buried, peeled, and treated with a non-toxic preservative. Regular log inspections are required to identify when logs have deteriorated to an unacceptable point and must be removed.



Photo of existing condition

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US History Tree Timeline

The proposed path would connect the paved playground to the adjacent neighborhood sidewalk, improving connectivity and accessibility. The path would serve as a timeline. It would document groups of trees used locally through different time periods including trees indigenous people used, trees documented by Lewis and Clark, and trees well adapted for any future climate change.



Science Courtyard

The school's courtyard is already used extensively for science and classroom activities. Teachers have requested a few enhancements to improve its educational use. Additions would include native understory plantings and seating logs. Seating logs would need to be rolled in through the door, so 24"x24" log rounds are proposed. Native understory would be grasses and other low vegetation under 36".

Playground Shade Trees

The playground at Sitton Elementary is located adjacent to an asphalt play area and open to the south. On a sunny day the area warms up quickly. Strategic deciduous tree plantings would cool the play area and add natural interest.

Sitton Elementary School

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Sitton Elementary School

Tree Planting and Education Options

Insects & Leaves Outdoor Classroom

This area of the Sitton playground is more frequently used by Kindergarden and 1st grade students. The scale and theme of the outdoor classroom has been directed toward their use.

A grove of dwarf or small trees is proposed. It will be set in bark chips or gravel. Trees will focus on providing examples of different types of leaves for collection and examination. A small clearing in the grove will have 24 12"x12" movable stumps for seating and 3 large 'table' log rounds.

A feature of the outdoor classroom will be an insect hotel. These are small box type features created out of natural materials to offer homes for bugs and pollinator insects.

Plant 7-20 of the following Trees

- Heptacodium miconoides - Seven Son Flower
- Thuja plicata 'Zebrina' - Western Red Cedar Zebrina
- Fagus sylvatica - 'Dawycks Purple'
- Arbutus unedo - Strawberry Tree
- Lagerstromia' spp. - Crape myrtle
- Acer circinatum - Vine Maple
- Punica granatum - Pomegranate
- Quercus gambelii - Gambel Oak
- Prunus serrula Spp. - Paper Bark Cherry
- Quercus hypoleucoides - Silverleaf Oak
- Pinus bungeana - Lacebark Pine
- Osmanthus fragrans - Osmanthus
- Chamaecyparis obtusa - Hinoki Cypress
- Trachycarpus fortunei - Windmill Palm
- Kellacanthuse - Florida Spice Bush
- Sciadopitys verticillata - Umbrella Pine




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