

SITE ANALYSIS

Location - Two slopes at the intersection of West Janss Road and Lynnmere Drive, adjacent to Wildwood Regional Park in the northwest corner of Thousand Oaks, California. This parcel of open space was required to be protected as a condition of approval for a new housing development.

Latitude is 34°N. Elevation 827-867 ft.

Limits of work - Each slope, beginning from the top and continuing downhill, includes a natural sage scrub area, as well as 4:1 slope (a 15 ft. wide area above the ditch that has been stripped by construction operations) and a 2:1 slope (the area from the ditch to the street, which for the purposes of this project is assumed to be a bare area). The limits of work shall extend to the edge of the restoration area.

Winds - according to The New Sunset Western Garden Book, the area experiences seasonal Santa Ana winds, which are strong, hot, and dry, and blow from the east. Otherwise, prevailing winds blow from the west from March to October and the north from October to March (www.weatherspark.com).

Sun / Shade patterns - the sun path shown in the diagram corresponds to summer solstice on June 22, 2020, with sunrise at 5:44:16 AM and sunset at 8:11:17 PM (www.suncalc.org). Conditions are hot and sunny. For this project, the slopes are considered to be bare due to the lack of measurable shade, despite the existence of a few trees along the sidewalks that may provide limited shade.

Sunset climate zone 21 - warm and cold spots in southern California's areas of occasional ocean influence. Zone 21 consists of thermal belts, with the weather influenced both by maritime and interior air. Average winter lows hover around 40°F, with summer highs ranging from 90°F to 94°F. Growing season is from March to November, according to The New Sunset Western Garden Book.

Water Use Classification of Landscape Species (WUCOLS) - for Thousand Oaks, the WUCOLS region is South Inland and the number is 4.

Soil - conditions on the slopes are rocky loam; the east facing slope has several areas of fractured rock outcropping, as shown by the dashed lines.

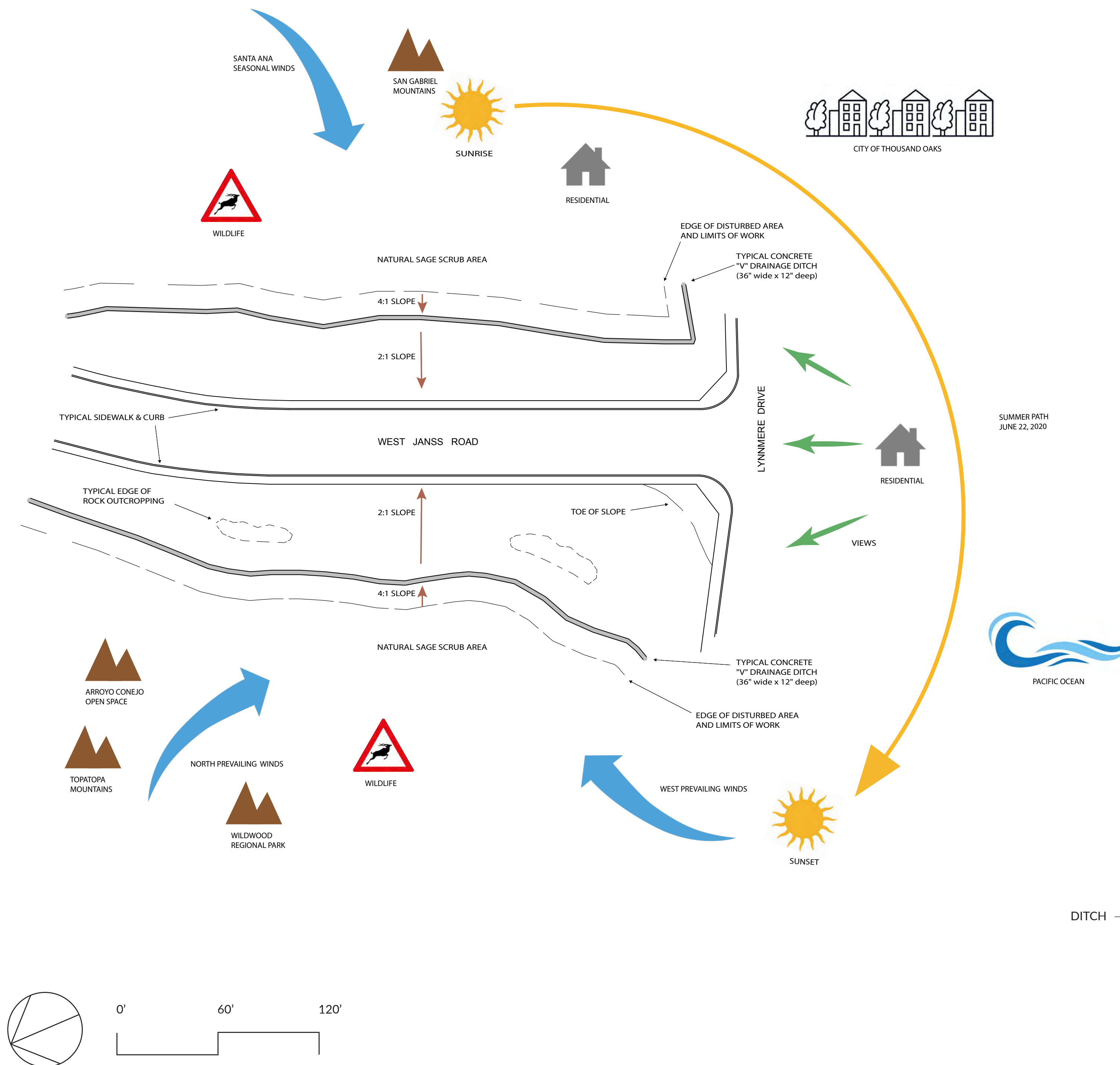
Existing plants on site - the street trees are Pistacia chinensis (chinese pistache). Other plants in the area include Quercus agrifolia (coast live oak), Cedrus deodora (deodar cedar), Baccharis pilularis (coyote bush), Acacia redolens (desert carpet), Myoporum parvifolium (creeping boobialla), etc. The neighborhood has a mix of exotic plants (Google Maps Street View). The natural area above the slopes is sage scrub, dominated by Opuntia littoralis and Opuntia prolifera (aka Cylindropuntia) combined with Salvia mellifera, Artemisia californica and Eriogonum fasciculatum.

Wildlife - The natural area is a habitat for the Cactus Wren, a California State Species of special concern. Coyotes, rodents, bird, snakes, raptors and occasionally deer are also present.

Views - views into the site are dominated by the sage scrub area toward the top of the slopes, with views out of the nearby slopes and residential areas.

Noise - typical neighborhood noise with light traffic. This is a residential area of single-family homes. The streets have two drive lanes, bound by sidewalks with pedestrian traffic that includes dog walkers, walkers, and joggers.

Existing points of interest - the vegetation on the slopes and residences along the streets.



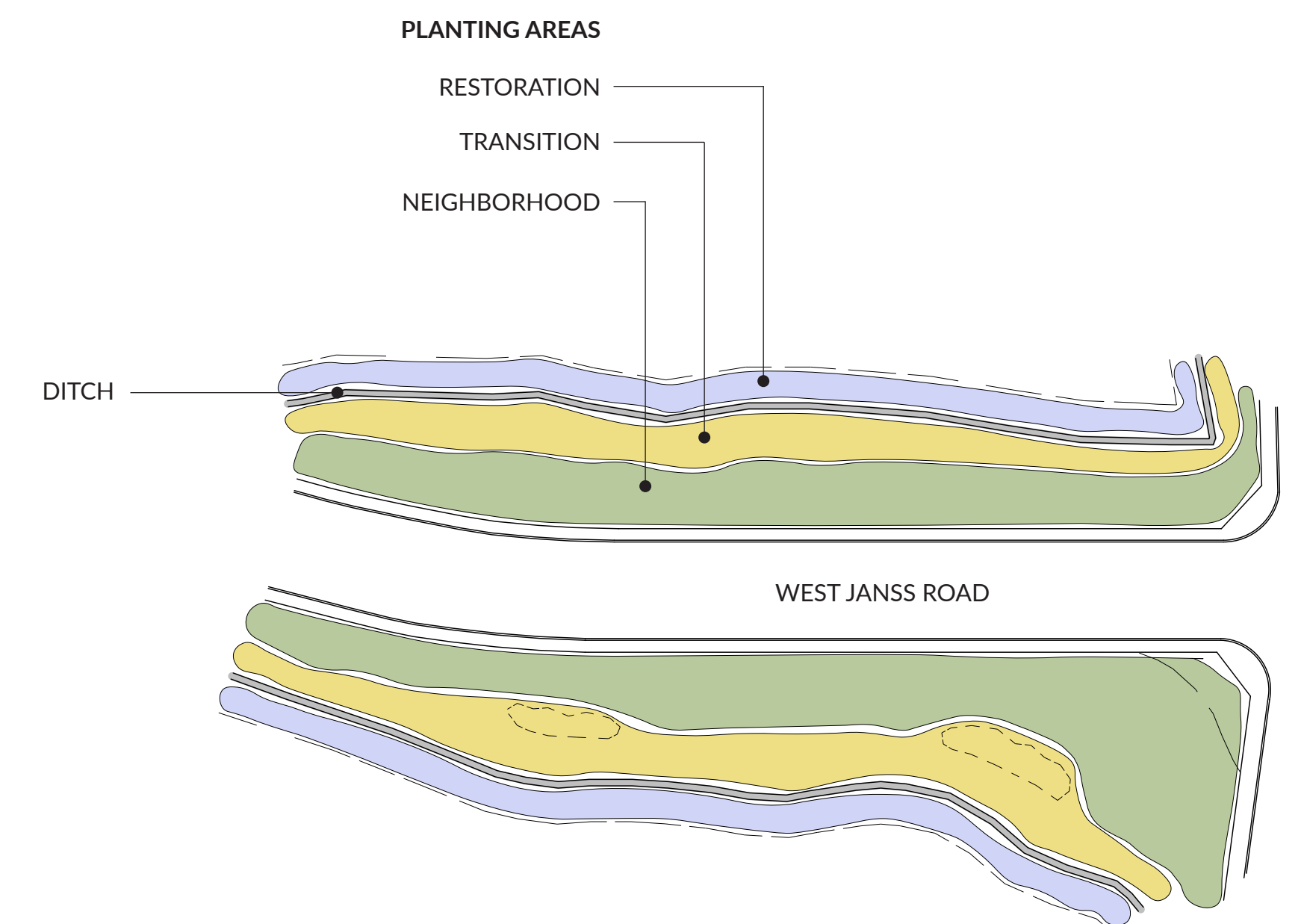
DESIGN NARRATIVE

This slope planting design was designed to transition a natural sage scrub area into an accessible slope in a residential neighborhood in Thousand Oaks. The design concept shown in the diagram below accomplishes this by planting three areas, all with 100% California natives:

- 1) A **restoration area** (4:1 slope) with plant materials matching the existing natural sage scrub area;
- 2) A **transition area** (top half of 2:1 slope) using the same groundcover as the restoration area and linking with the neighborhood area; and
- 3) The **neighborhood area** (bottom half of 2:1 slope), which moves away from the sage scrub rough plantings, with more fine texture and colorful plants for pedestrians and those driving past the neighborhood.

Beyond the aesthetic and decorative value of the planting design, plants were selected to provide the foundation for existing biological life in the area - as well as important environmental controls such as water infiltration, erosion, pollution, and fire control. Three types of protection are applied to avoid damage to the bare ground: 1) the immediate planting of seeded groundcovers, which germinate and grow quickly, 2) the subsequent planting of shrubs, and 3) the addition of trees, which while slow-growing, are the largest with the deepest roots. The mass, foliage and root system of the trees provide important erosion control, wind break, noise control and pollution reduction, as well as the air filtration and oxygenation needed to support life.

Following are two conceptual planting plans: one for groundcovers and trees, and a second for shrubs.



GROUNDCOVERS AND TREES

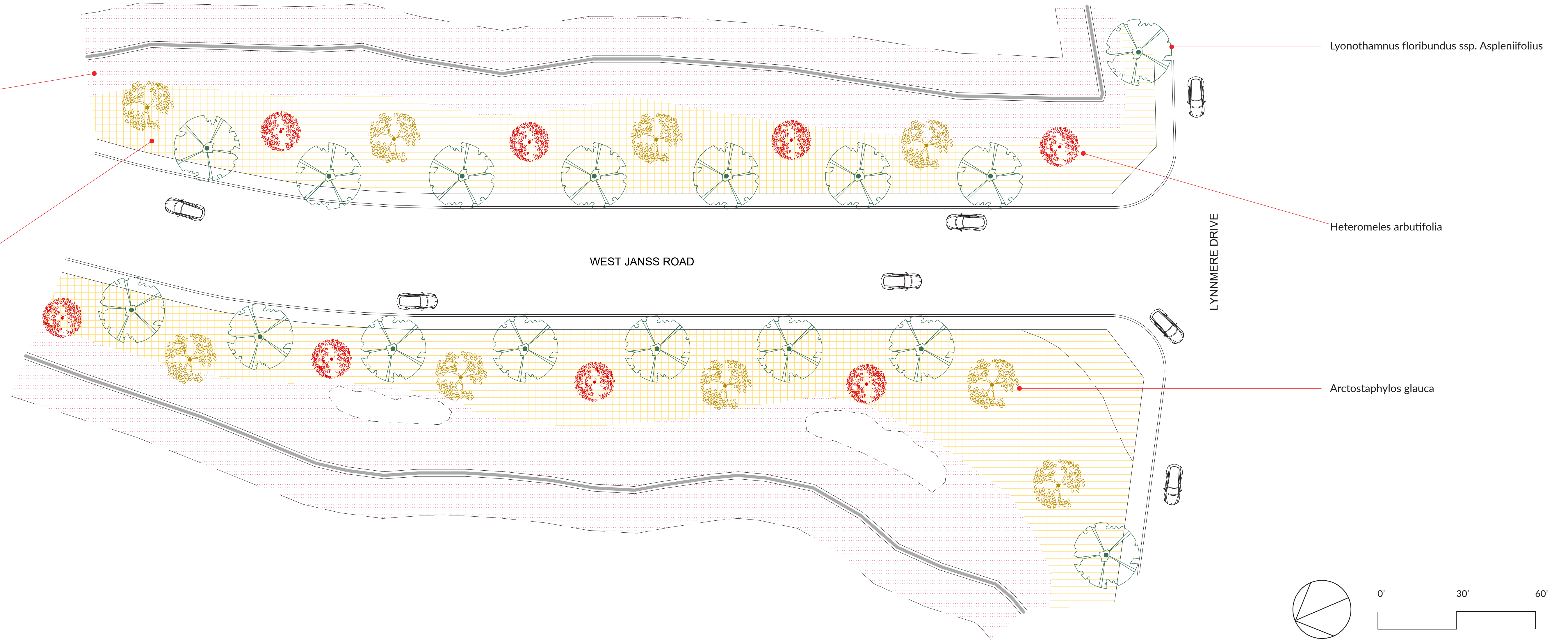
CONCEPTUAL PLANTING PLAN

GROUNDCOVER SEED MIX 1

Salvia mellifera
Eriogonum fasciculatum

GROUNDCOVER SEED MIX 2



Corethrogyne filaginifolia
Symphoricarpos mollis
Eriogonum grande var. rubescens
Trifolium willdenovii



PLANT PALETTE


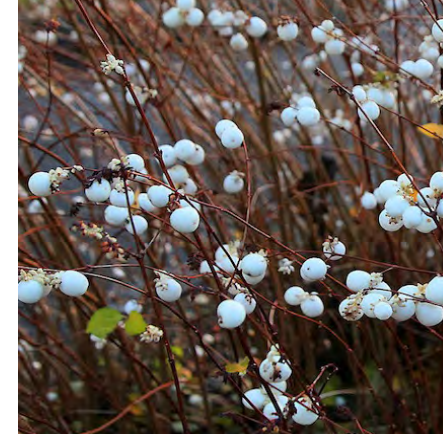


GROUNDCOVER SEED MIX 1

RESTORATION AND TRANSITION AREAS

 50% <i>Salvia mellifera</i> black sage 6' H, 10' W wucols Low	 50% <i>Eriogonum fasciculatum</i> california buckwheat 6' H, 3' W wucols Very Low
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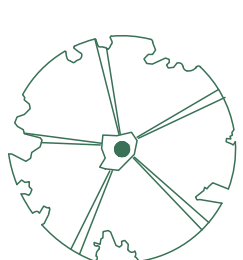



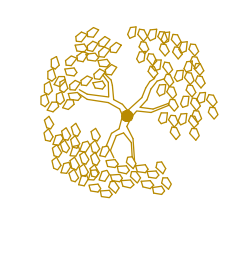

GROUNDCOVER SEED MIX 2

NEIGHBORHOOD AREA

 25% <i>Corethrogyne filaginifolia</i> california aster 3' H, 6' W wucols Very Low	 25% <i>Symphoricarpos mollis</i> creeping snowberry 3' H, 6' W wucols Low
 25% <i>Eriogonum grande var. rubescens</i> red-flowered buckwheat 1' H, 3' W wucols Low	 25% <i>Trifolium willdenovii</i> tomcat clover 1' H&W wucols Low

TREES

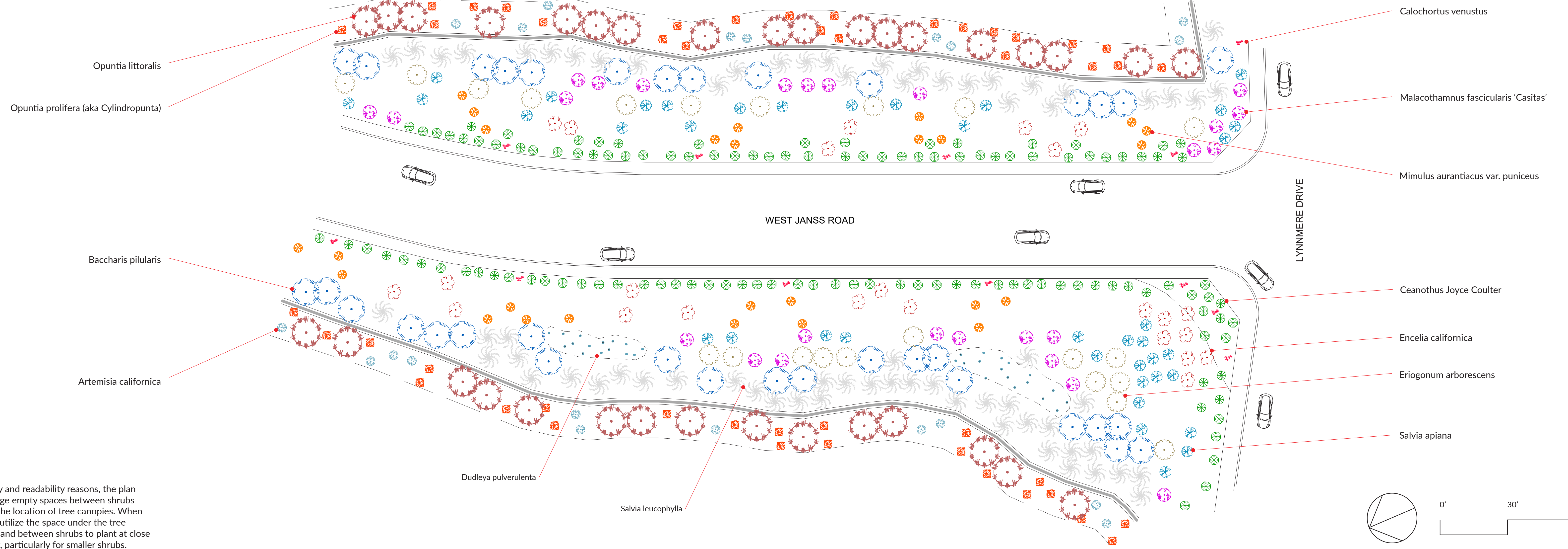
NEIGHBORHOOD AREA

  <i>Lyonothamnus floribundus</i> ssp. <i>Aspleniifolius</i> santa cruz island ironwood 50' H, 24' W wucols Low	  <i>Heteromeles arbutifolia</i> toyon 30' H, 15' W wucols Low
  <i>Arctostaphylos glauca</i> bigberry manzanita 20' H&W wucols Very Low	

SUNSET CLIMATE ZONE 21
WUCOLS REGION SOUTH INLAND # 4
SOIL LOAM ROCKY

SHRUBS

CONCEPTUAL PLANTING PLAN





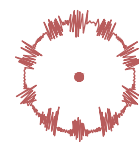



NOTE

For clarity and readability reasons, the plan leaves large empty spaces between shrubs to show the location of tree canopies. When planting, utilize the space under the tree canopies and between shrubs to plant at close proximity, particularly for smaller shrubs.

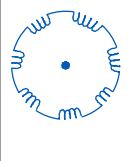





PLANT PALETTE

RESTORATION AREA

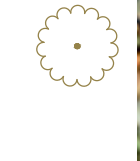

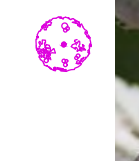




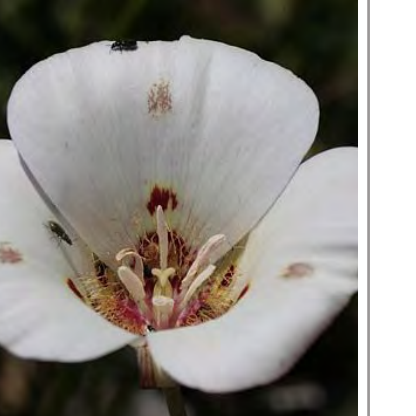






SUNSET CLIMATE ZONE 21
WUCOLS REGION SOUTH INLAND # 4
SOIL LOAM ROCKY

  <i>Opuntia prolifera (aka Cylindropuntia)</i> coastal cholla 10' H, 5' W wucols Very Low	  <i>Opuntia littoralis</i> coast prickly pear 3' H, spreading wucols Very Low
  <i>Artemisia californica</i> california sagebrush 8' H, 4' W wucols Very Low	

TRANSITION AREA

  <i>Baccharis pilularis</i> coyote bush 10' H, 12' W wucols Low	  <i>Salvia leucophylla</i> purple sage 5' H, 10' W wucols Low
  <i>Dudleya pulverulenta</i> chalk dudleya 1' H&W wucols Low	

NEIGHBORHOOD AREA

  <i>Eriogonum arborescens</i> santa cruz island buckwheat 7' H, 9' W wucols Very Low	  <i>Malacothamnus fascicularis 'Casitas'</i> casitas chaparral mallow 8' H, 6' W wucols Low	  <i>Encelia californica</i> bush sunflower 5' H, 7' W wucols Low	  <i>Calochortus venustus</i> butterfly mariposa 2' H, 0.5' W wucols Very Low
  <i>Salvia apiana</i> white sage 5' H, 8' W wucols Low	  <i>Mimulus aurantiacus var. puniceus</i> red bush monkeyflower 2' H, 3' W wucols Very Low	  <i>Ceanothus Joyce Coulter</i> joyce coulter mountain lilac 3' H, spreading wucols Low	