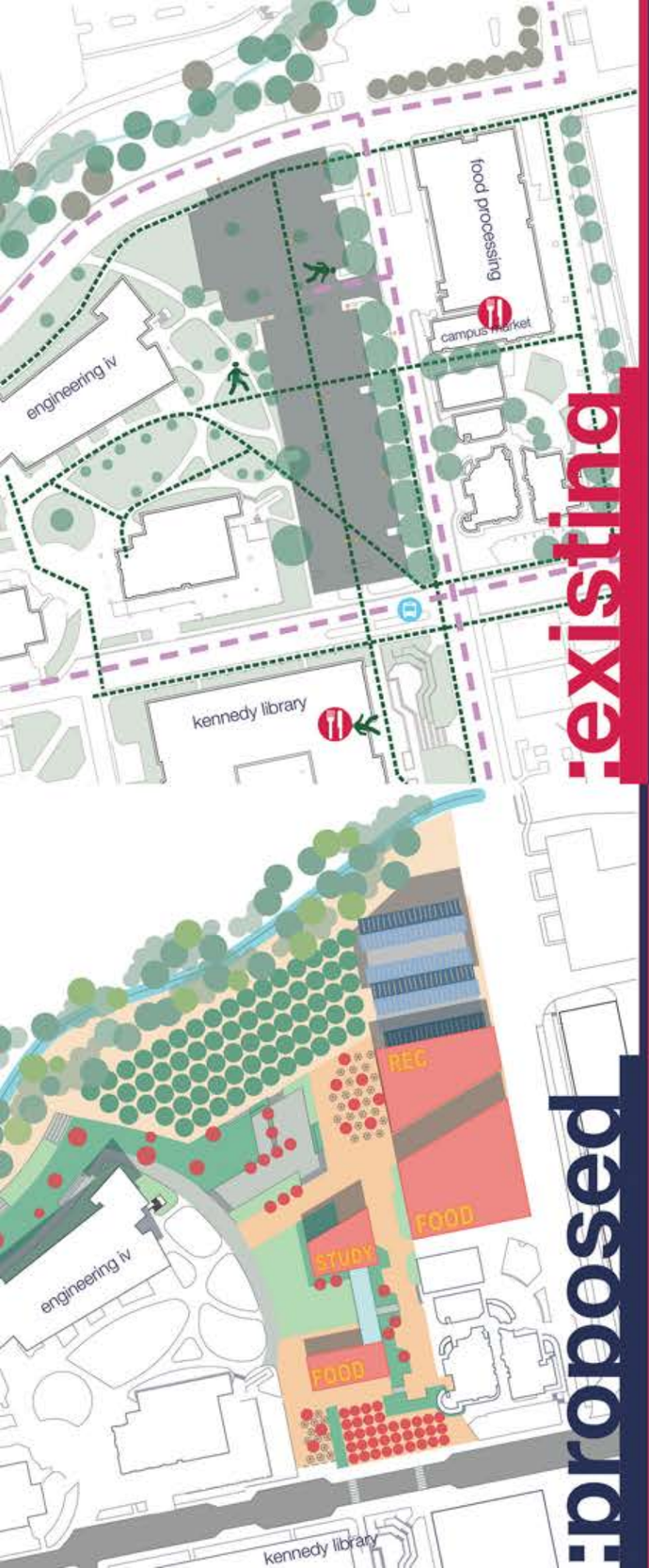

july aung / la 402

:: metrics

104,980 sq ft total

65,776 ft²	total asphalt
13,286 ft²	total concrete
25,918 ft²	total planting
1.585 ft/yr	annual precipitation
0.1 ft/ yr	average storm size (85th percentile)

social

recreation	0%
study space	0%
seating	0%

environmental

asphalt	64%
concrete	13%
planting	23%
impermeable	77%
softscape	23%

water

infiltration	0%
drain to creek	99%
retention by trees	1%

calculations

: annual volume of stormwater

annual precipitation x total square footage
1.585 ft/yr x 104,980 ft²
= **166,393.3 ft³/yr // 1,244,708 gal**

: volume of water in avg stormwater

average storm size x total square footage
0.1 ft/yr x 104,980 ft²
= **10,498 ft³/yr // 78,530 gal**

: water retention by trees
annual volume of stormwater

total rainfall intercepted / annual volume of stormwater
(12,622 gal / 1,244,708 gal)* 100
= 1%

tree facts

scientific name	common name	qty	rainfall intercepted/year (gals)
Schinus molle	peruvian pepper tree	13	9,802
Tipuana tipu	tipu tree	8	1,488
Quercus sp.	oak	6	1,332
		total:	12,622

:: metrics

237,681 sq ft total

0 ft²	total asphalt
26,838 ft²	total concrete
103,054 ft²	total planting
25,626 ft²	permeable paving
82,163 ft²	Decomposed granite
1,585 ft/yr	annual precipitation
0.1 ft/ yr	average storm size (85th percentile)

social

recreation	64%
> study space	
> seating	
> play/ recreation	
educational	34%

environmental

asphalt	0%
concrete	11%
planting	43%
permeable	89%
softscape	54%
> planting	
> decomposed granite	
hardscape	46%
> concrete	
> permeable paving	

water

drain to creek	0%
drain to detention basin	97%

calculations

: annual volume of stormwater

annual precipitation x total square footage
1.585 ft/yr x 237,681 ft²
= **376,724 ft³/yr // 2,818,091 gal**

: vol of water in avg stormwater

average storm size x total square footage
0.1 ft/yr x 237,681 ft²
= **23,768 ft³/yr // 177,797 gal**

: volume of water collected by detention basins
average stormwater

average storm size x area of drainage
41,955 ft² x 0.1 ft/yr = **4,196 ft³/yr**
15,424 ft² x 0.1 ft/yr = **1,842 ft³/yr**
21,618 ft² x 0.1 ft/yr = **2,161 ft³/yr**
149,514 ft² x 0.1 ft/yr = **14,951 ft³/yr**

timeline

july aung / la 402 / fall 2017

Transformation of mono-functional parking lot into an active space for students. The main focus is to improve the performance of landscape on the site that currently have no social, environmental, or economic values. Thus, the goal for **timeline** is to reactivate the space for social uses and also contribute to the environment through retention basins, vegetation, and permeability of the site. The underlying concept of timeline is space and time, which is embodied in the uses and form of the five rooms throughout the site: timetable, hotpot, the sinkhole, sleeping hollows and apocalypse.

site analysis

landscape performance benefits

Quantitative data of how well a landscape functions based on sustainable goals: social, environmental and economic. **Timeline** centers on enhancing the social with additional recreational areas, study space, and seatings.