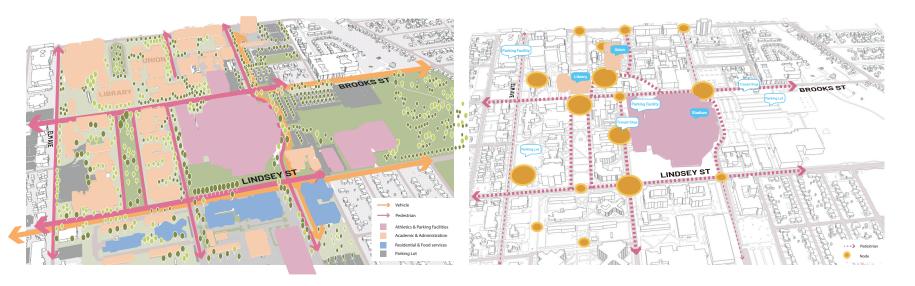
SimBluecity

For a long time, the campus has had ponding issues when it rains, causing problems for the ecological environment and users. After continuous research and investigation, the team put forward a series of design interventions. The goal is to reduce the flood problem on the campus, so that rainwater can be used in the right place, and users can have a better experience.

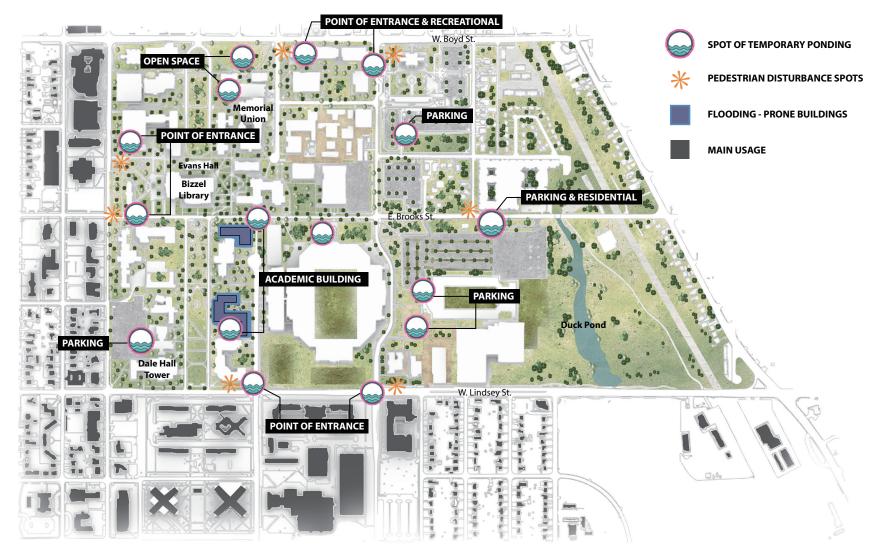
- USING SIMPLICITY INTERVENTION BRINGS THE BLUE (WATER) INTO THE CAMPUS -

SITE INVENTORY & ANALYSIS



CIRCULATION / IMPORTANT BUILDING PEDESTRIAN WALKWAY AND NODES

Pedestrians, bicyclists, and scooter users have the most ways to get around campus. There is an overabundance of pathways an individual could take to get on campus. Most students housed in the dormitories will approach from the south and cross Lindsey Street. Traffic lights, vehicle patterns, and pedestrian usage make this one of the busiest roads around the north campus. Students living in private residences who walk or bike to the north campus approach from the neighborhood in the north, east, and west.

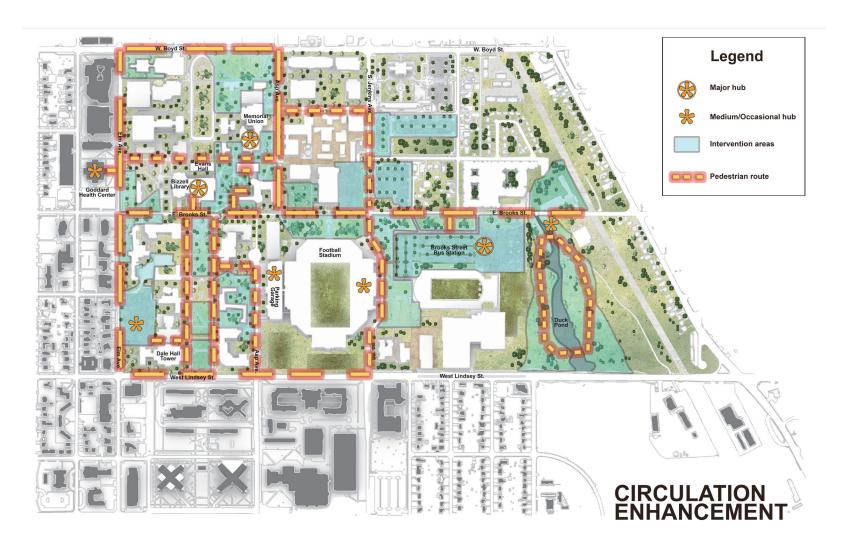


PONDING ISSUE IN THE CAMPUS

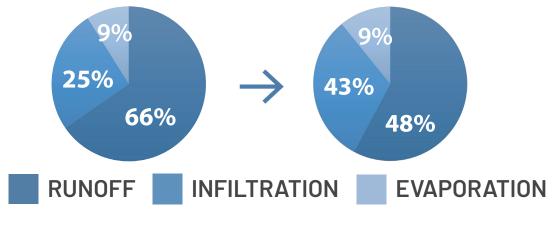
Over the last 2 years, ponding has caused flooding within the lower levels of 2 academic buildings. Both facilities are in the center of the north campus and is often frequented for classes by the student population. In addition to the lower floor flooding of these two academic buildings, there are many other spaces in close proximity to the buildings that have severe ponding issues. Ponding and drainage on OU's north campus is localized to several of the transportation nodes across campus. Many of the transportation nodes are adjacent to campus drainage, academic facilities, or near historic facilities. There have been very few campus interventions to alleviate hydrological issues on campus.

PROPOSED CIRCULATION ENHANCEMENT

IMPROVE PEDESTRIAN ROUTES / INCREASE CAMPUS EXPERIENCE



BEFORE AND AFTER





CLOSE TO



OPTIMIZATION IN EXTREME RAINFALL EVENTS



REDUCTION OF IMPERVIOUS SURFACES IN THIS SPACE. THIS WOULD LEAD TO FEWER POOLING **AREAS BUT INCREASED WATER RUNOFF INTO THE VEGETATIVE** AREAS.

THE CISTERN SYSTEM COULD COLLECT OVER

1100 GALLONS

OF USABLE WATER





THE PROPOSED DESIGN CAN RESULT IN



OPTIMIZATION OF RAINFALL INFILTRATION ON THE SITE



IN RAINFALL INFILTRATION



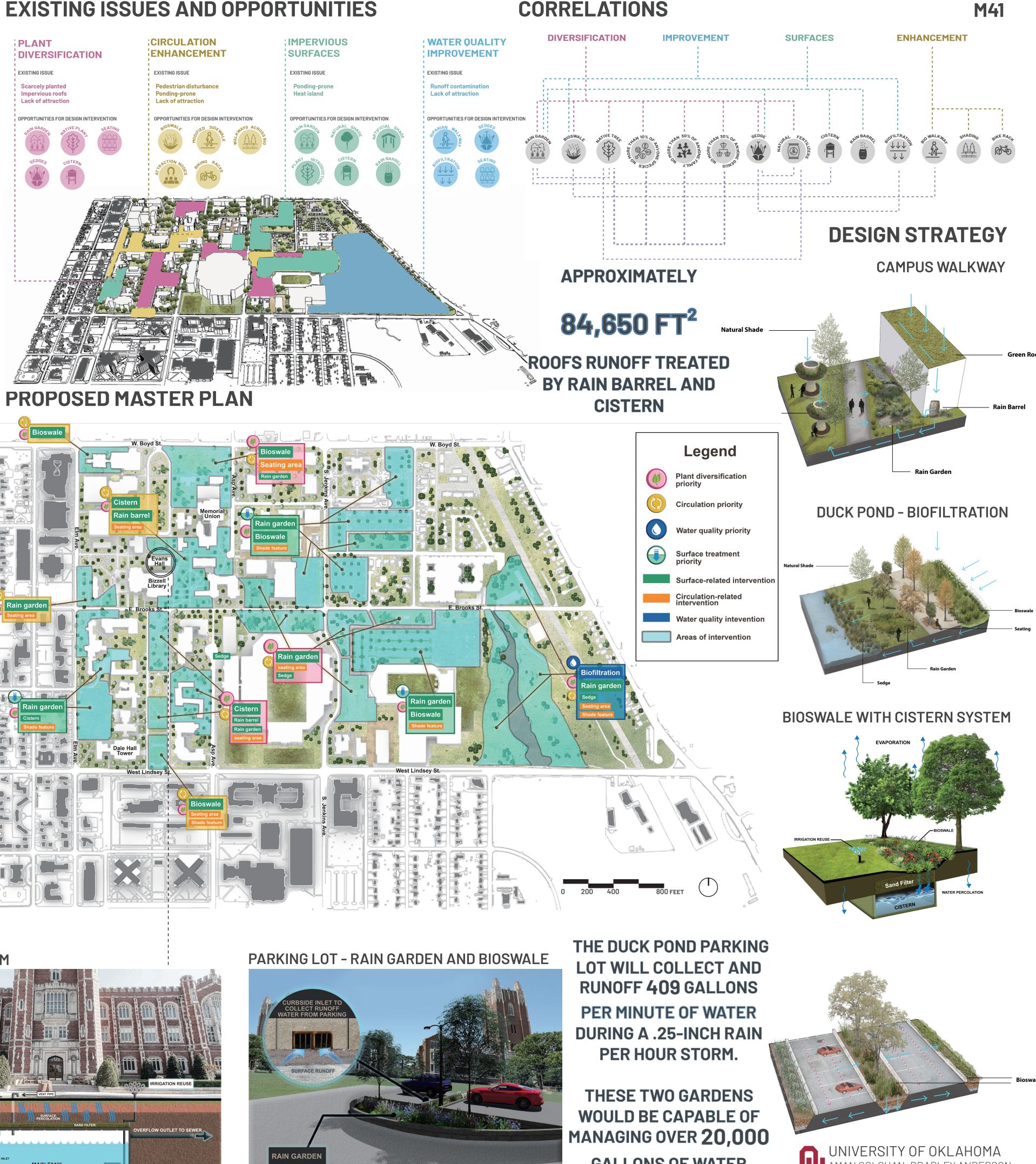


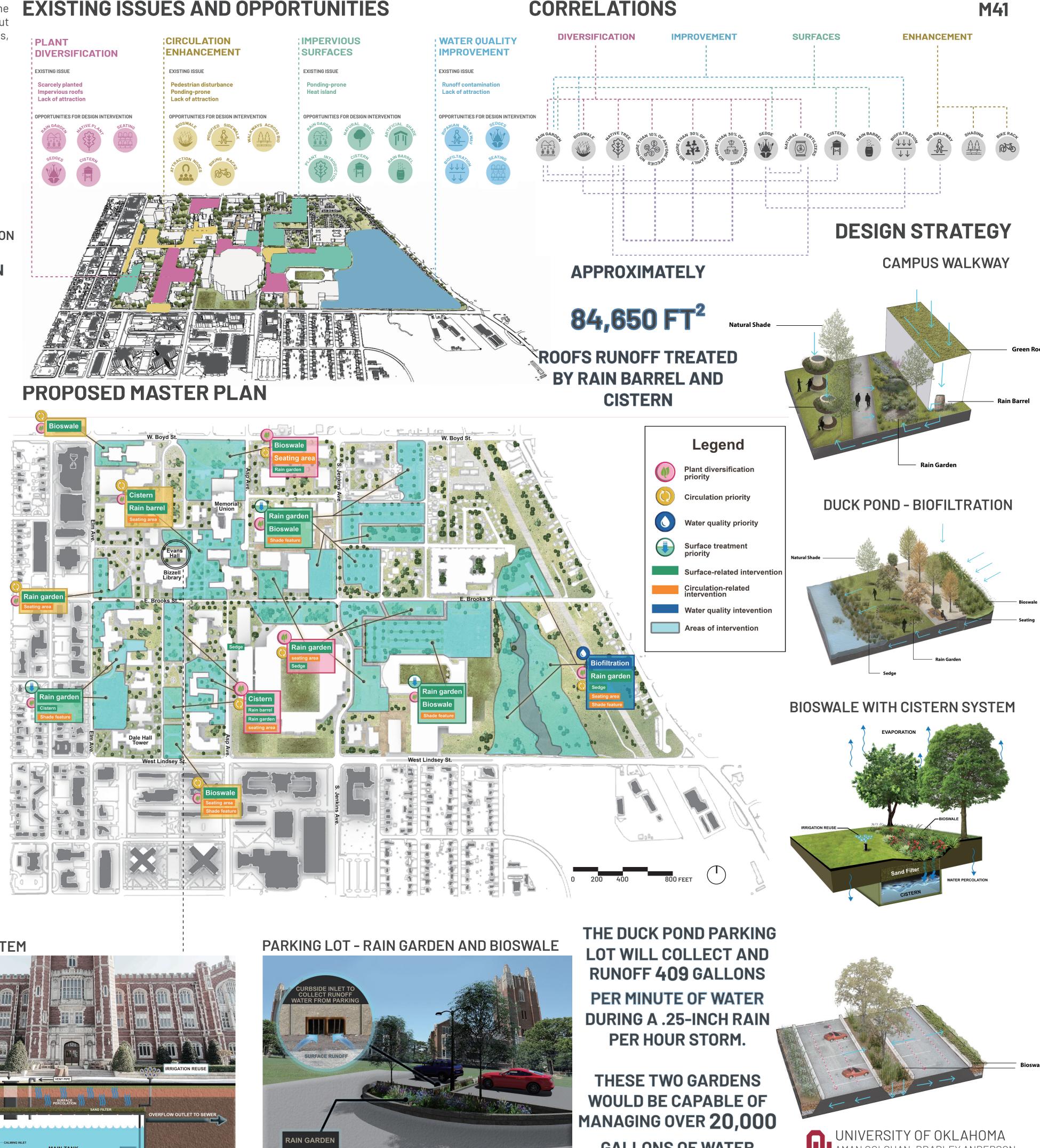
PERFORMANCE

BY REMOVING THE INTERIOR SIDEWALKS THERE IS A



EXISTING ISSUES AND OPPORTUNITIES





CISTERN SYSTEM



