Raising the Bar for Integrated Cultural and High-Performance Campus Landscapes



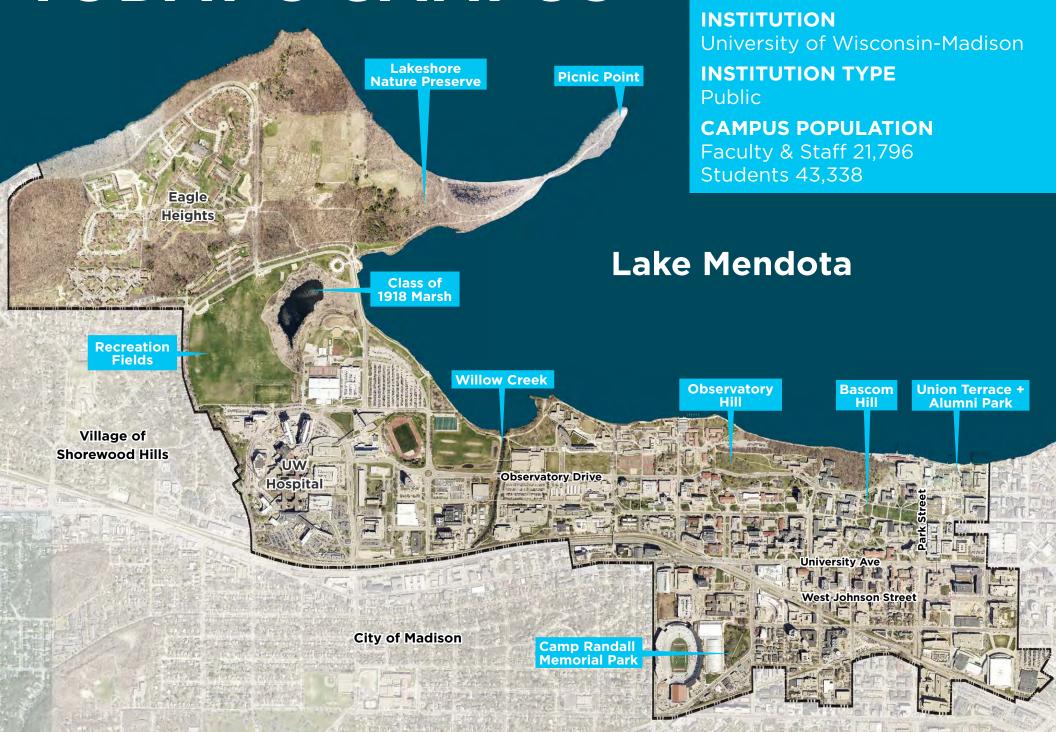


THE BIG QUESTION

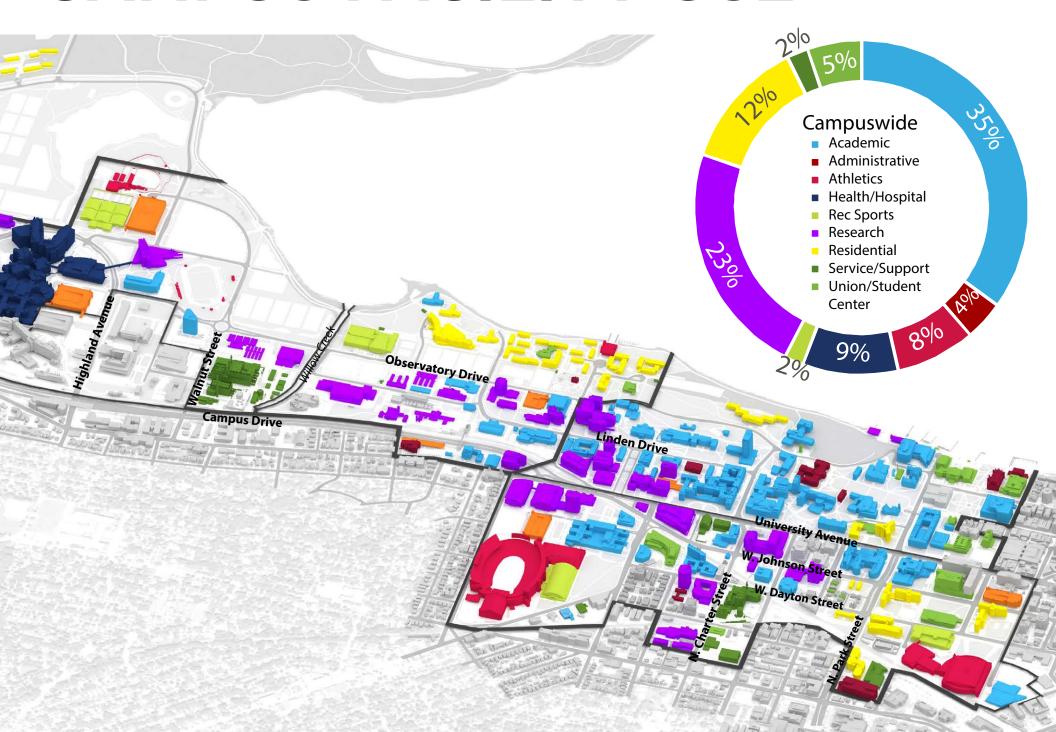
How do you create an integrated landscape framework that preserves the University's **historic core**, elevates the quality and **identity** of the overall campus, better **connects** the entire community to Lake Mendota, and establishes rigorous, measurable, data driven standards for improved **environmental stewardship**?



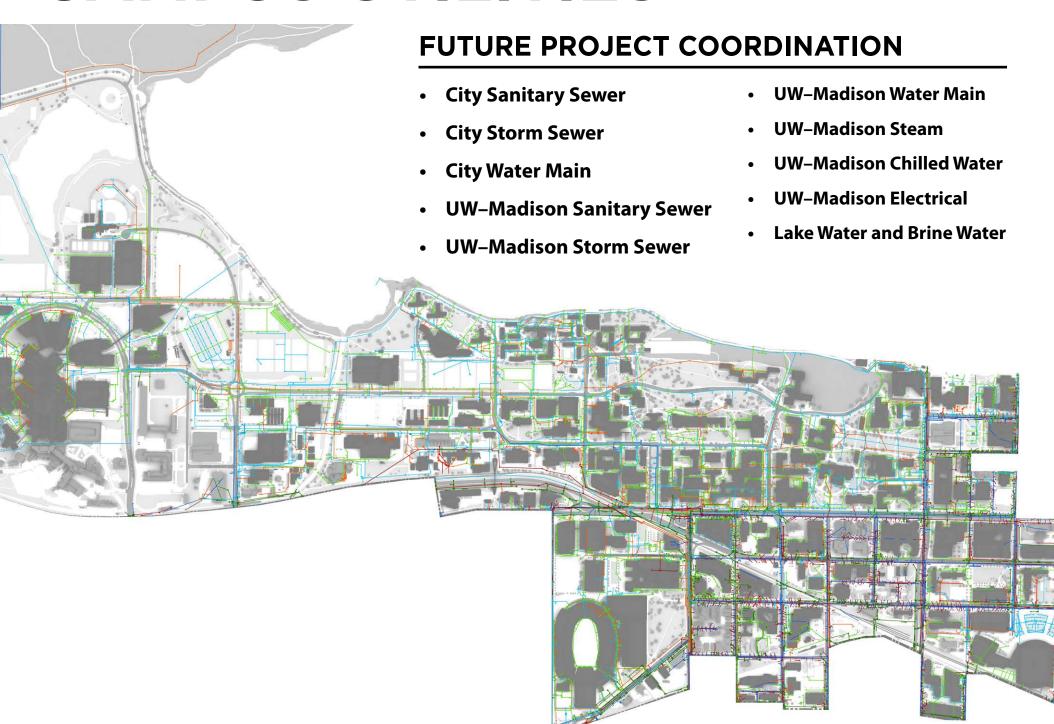
TODAY'S CAMPUS



CAMPUS FACILITY USE



CAMPUS UTILITIES

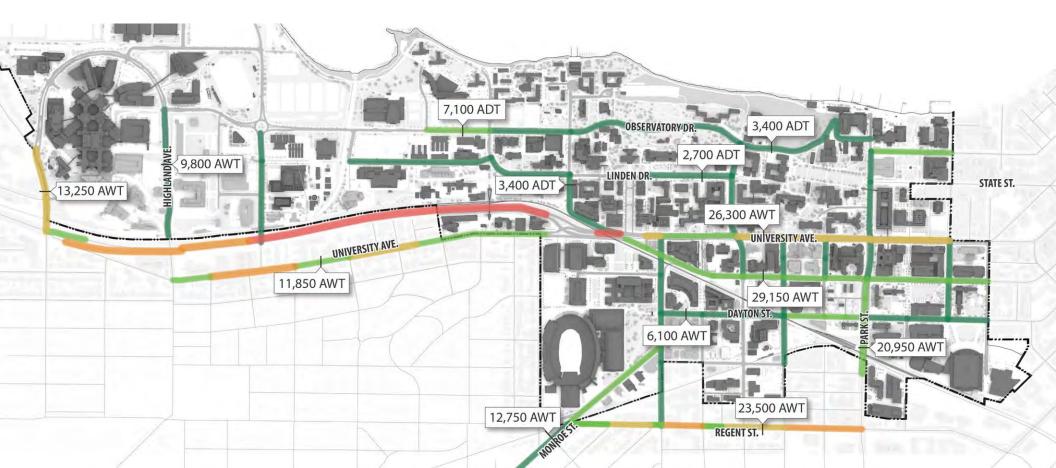


VEHICULAR CONGESTION



LEGEND (volume/capacity)

- **Uncongested (0.00-0.50)**
- Relatively Uncongested (0.50-0.80)
- Approaching Capacity/Slightly Congested (0-.80-0.90)
- Near or at Capacity/Congested (0.90-1.00)
- **Over Capacity (>1.00)**

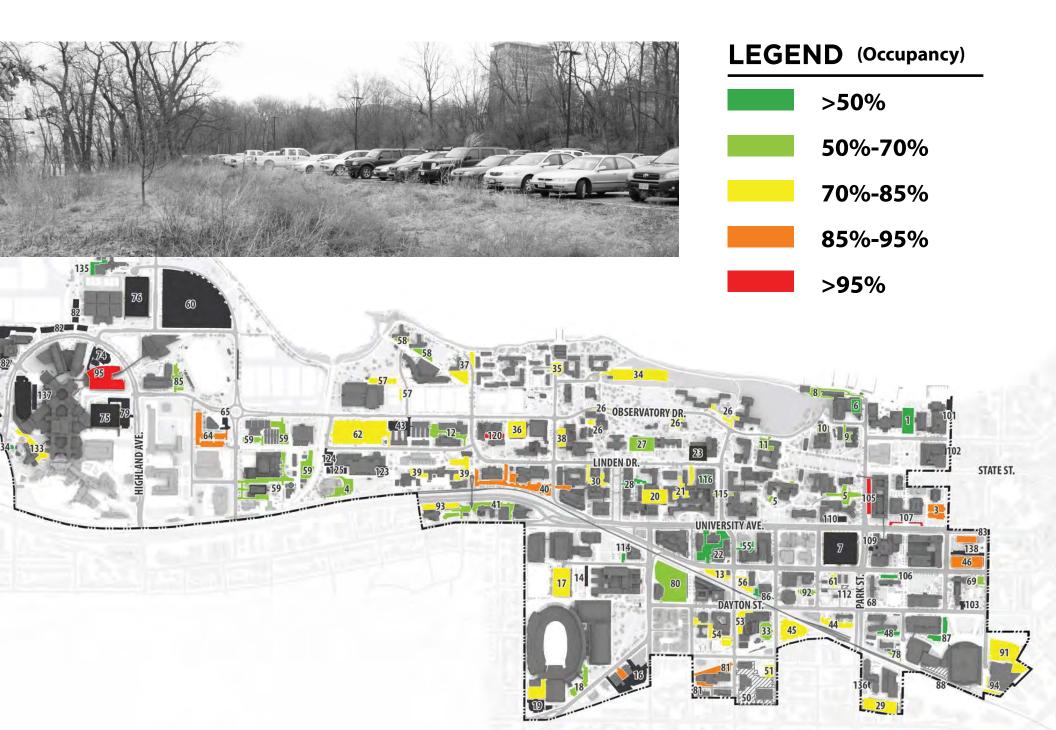


CONGESTION & BUS TIMING

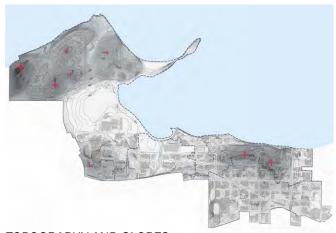


Linden Street and Charter Street Intersection

PARKING OCCUPANCY



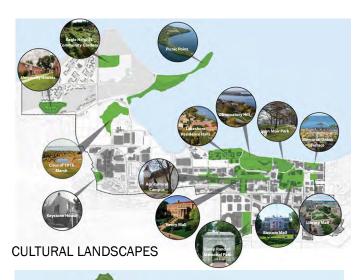
NATURAL SYSTEMS



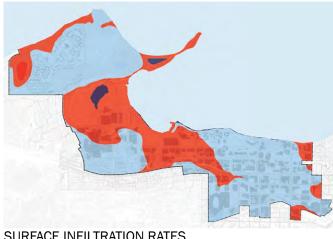
TOPOGRAPHY AND SLOPES



SOIL SUITABILITY



CAMPUS LANDSCAPE CHARACTER

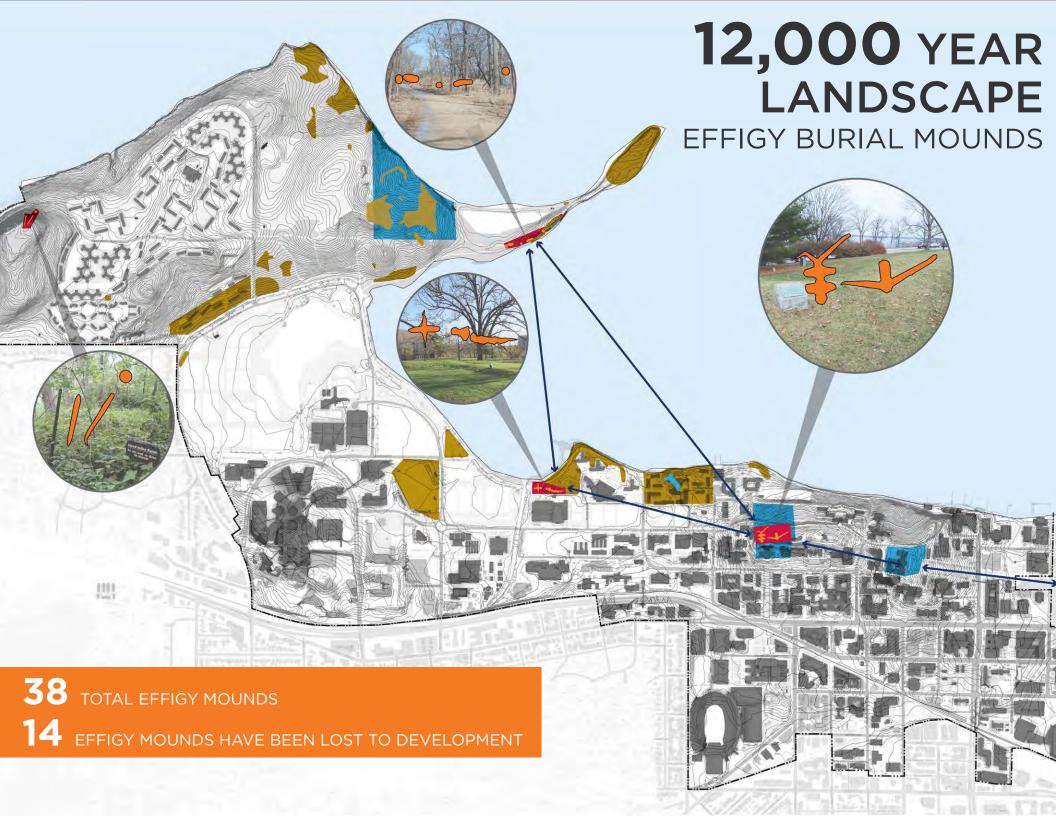


SURFACE INFILTRATION RATES



TREE CANOPY COVER









A Welcoming Environment



Re-engage the Lakefront



Promote Wellness and Quality of Life



Working Landscapes



Rooted in History



MASTER



Foster Naturalized Landscapes



Walkable Streetscapes

PRIMARY GREEN INFRASTRUCTURE GOALS

PROMOTE HEALTHY
YAHARA LAKES



INTEGRATE RESEARCH & LEARNING



CONNECT TO THE WATERSHED COMMUNITY

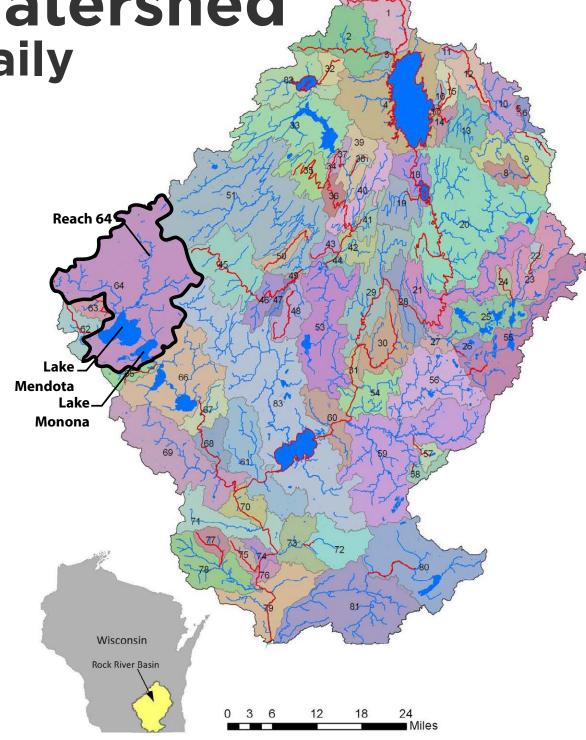


Rock River Watershed
Total Maximum Daily
Load (TMDL)

TOTAL SUSPENDED SOLIDS (TSS) 73% Reduction of

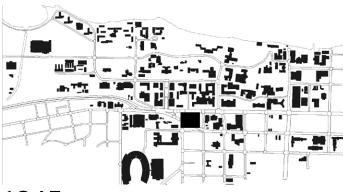
Total Phosphorus Reduction of

61%

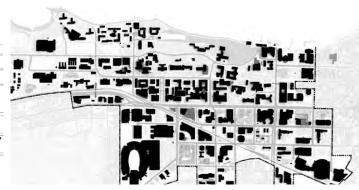




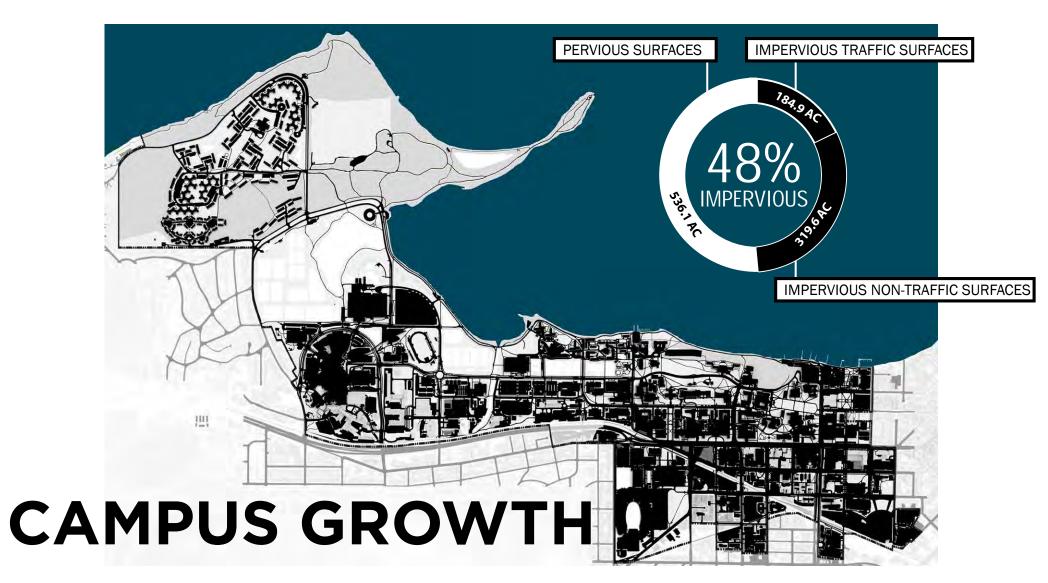




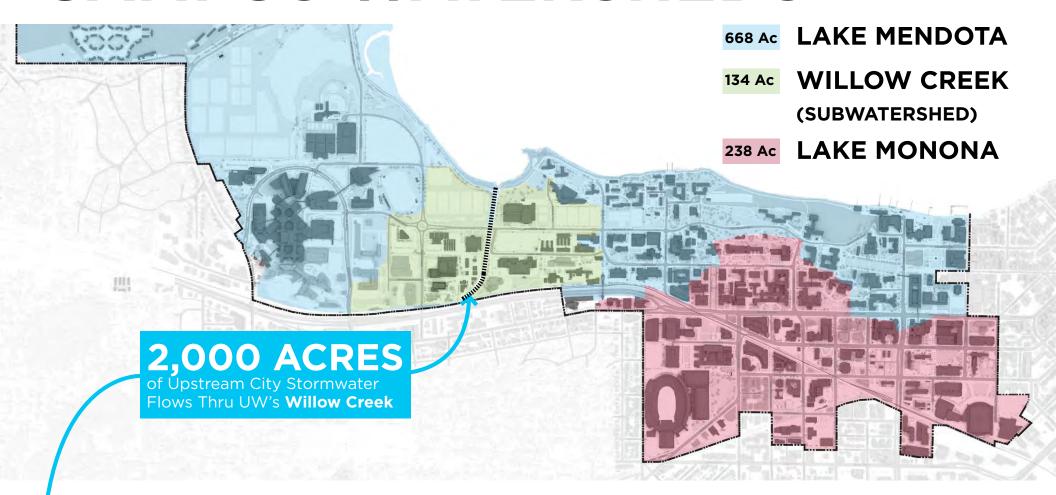
1967- CAMPUS BUILDINGS



 $2015\,\text{-}\,\text{campus buildings}$



CAMPUS WATERSHEDS

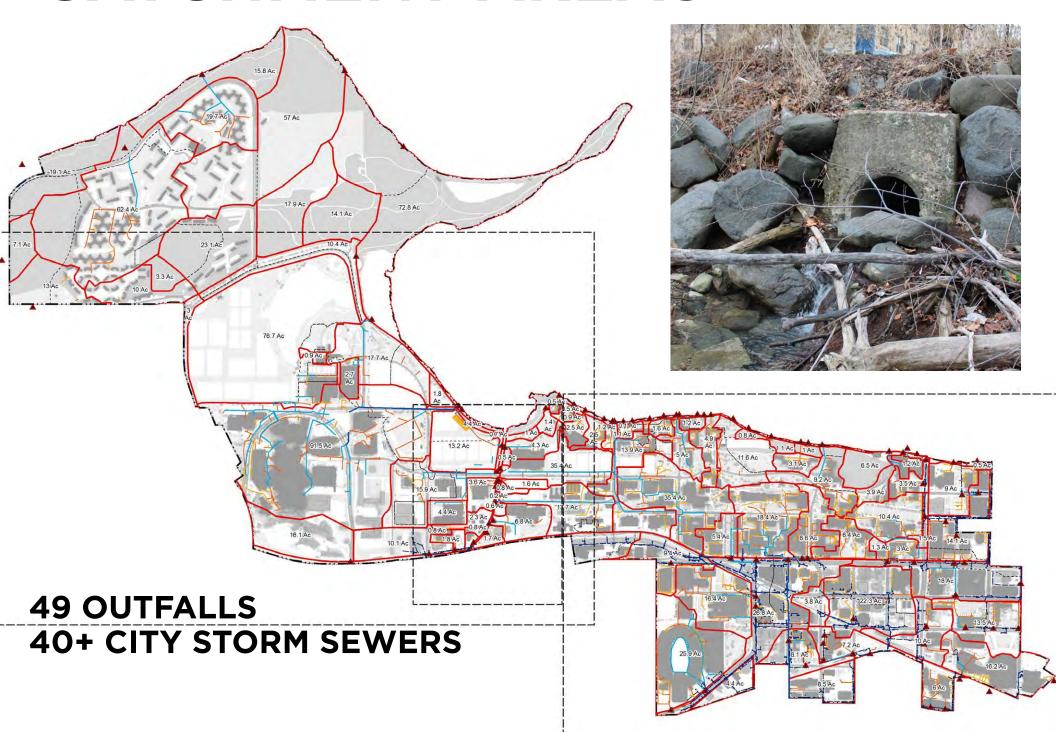


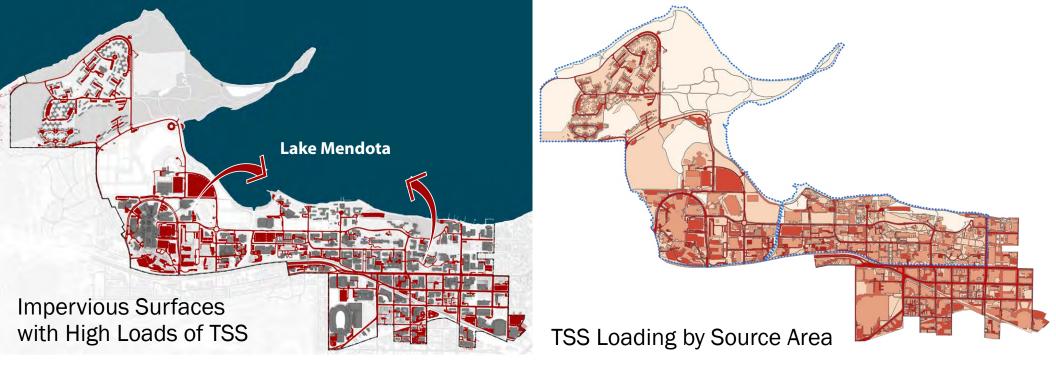


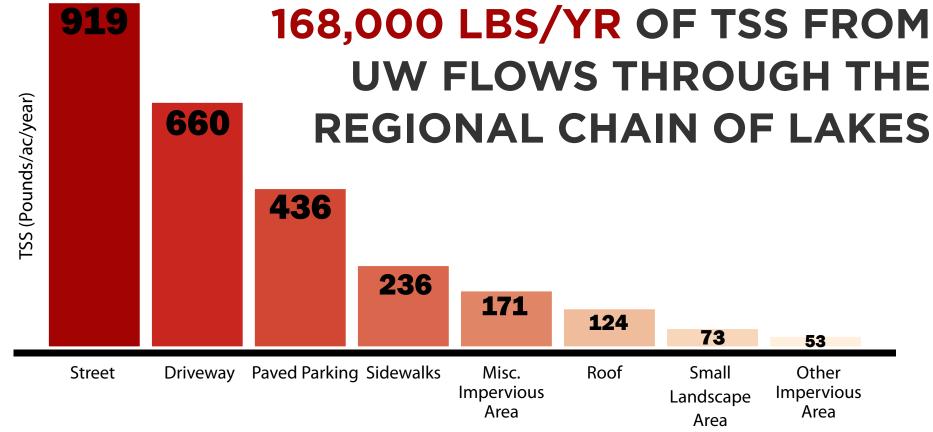




CATCHMENT AREAS







EXISTING CAMPUS BMPS







EXISTING CAMPUS BMPS



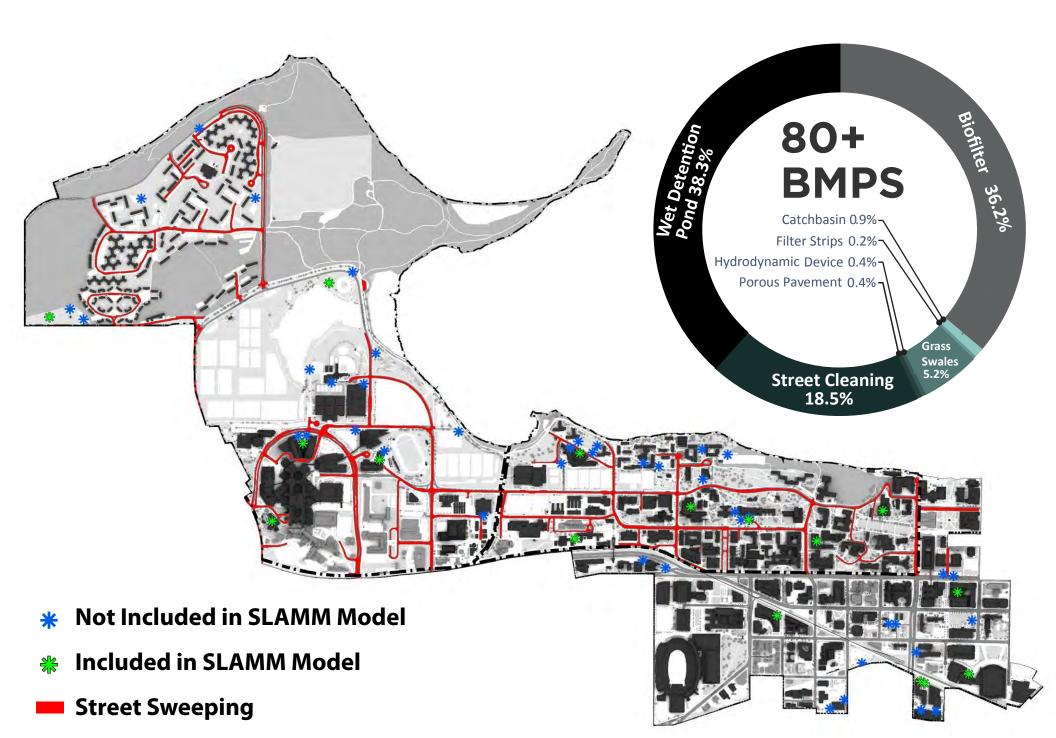


EXISTING CAMPUS BMPS

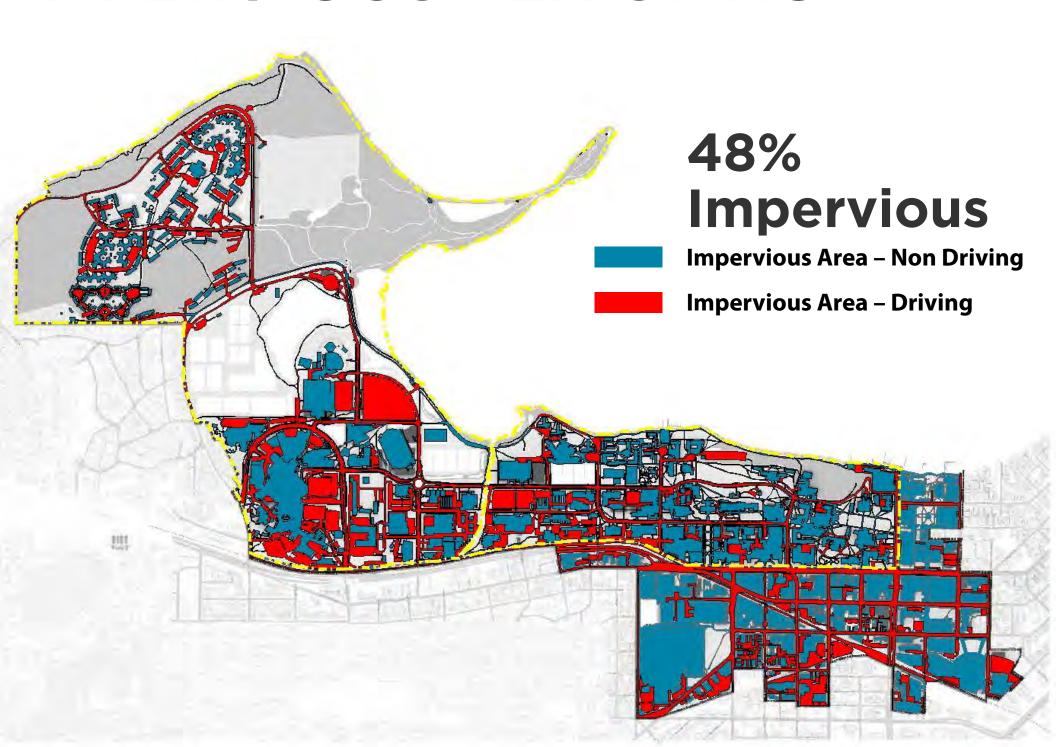




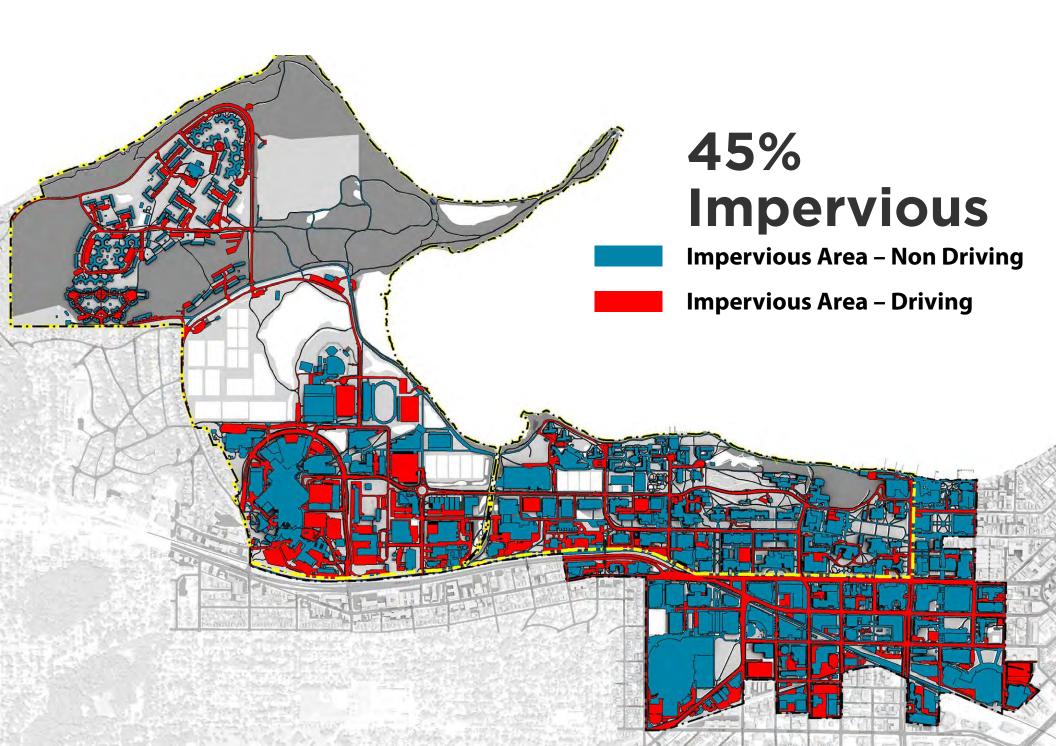
CAMPUS BMP MODELING



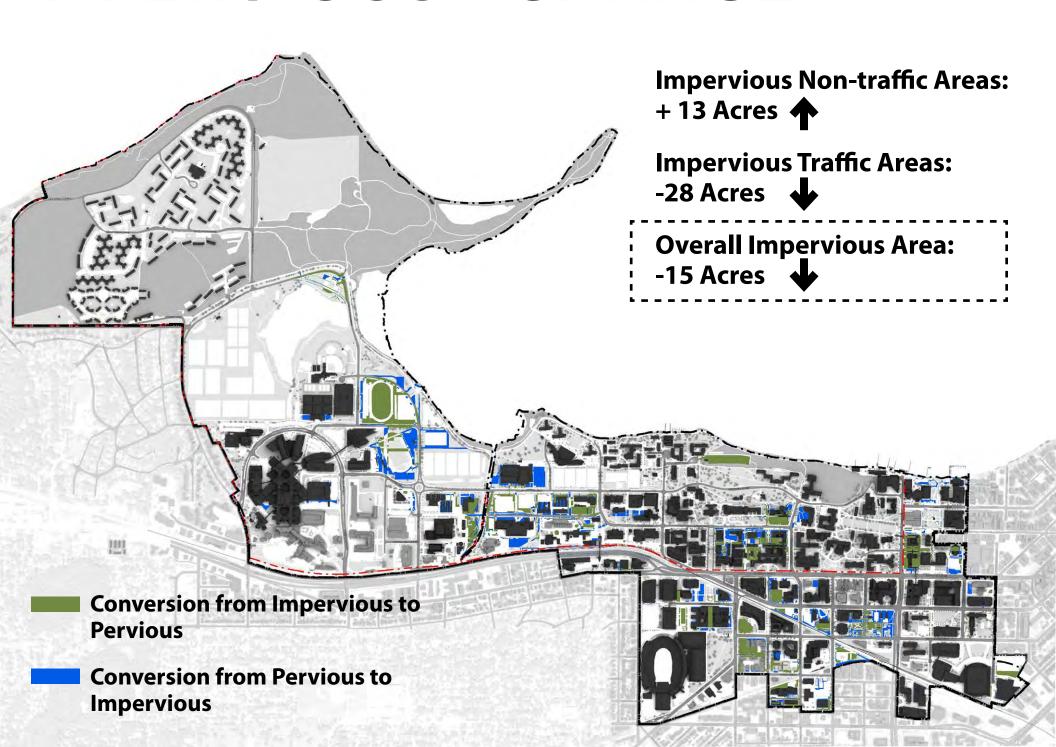
IMPERVIOUS - EXISTING



IMPERVIOUS - PROPOSED



IMPERVIOUS - CHANGE









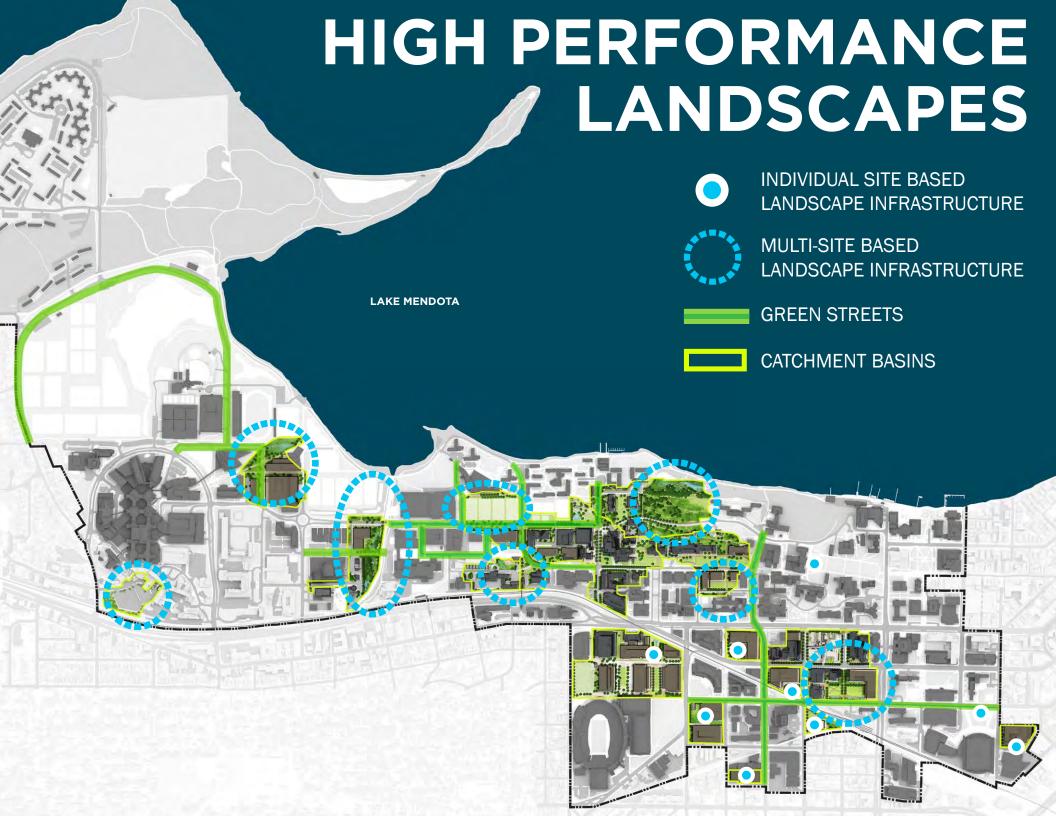


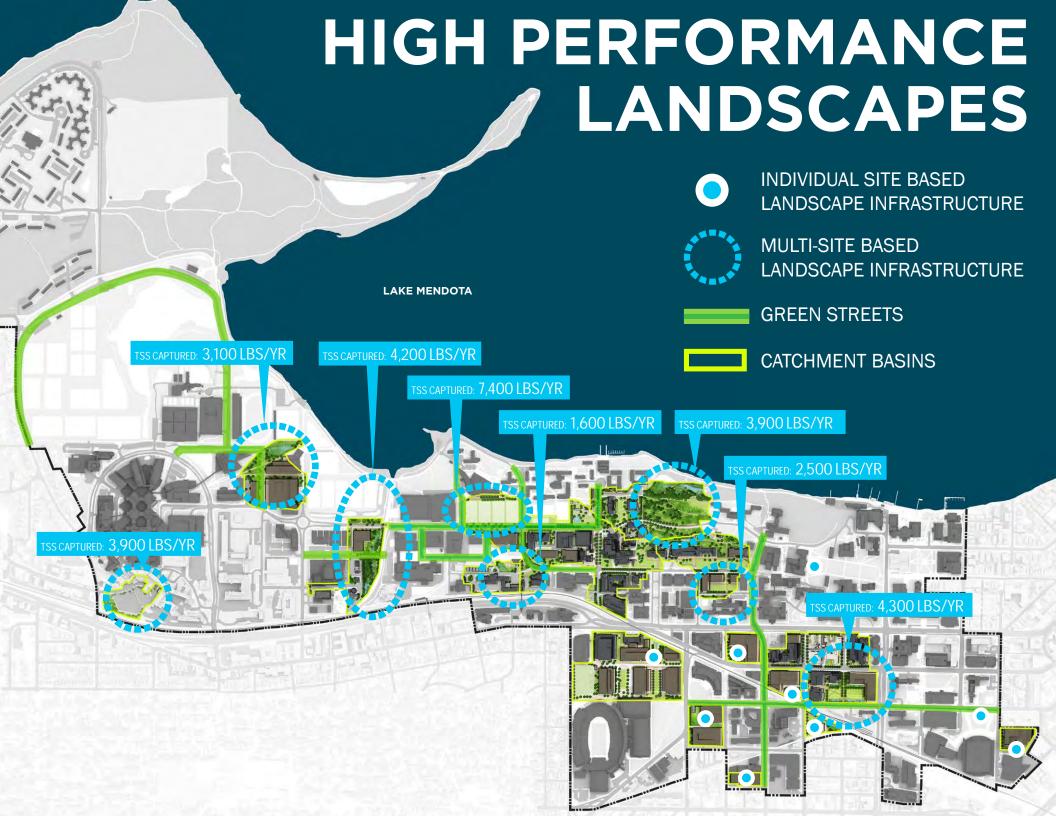




CAMPUS FACILITY CAPACITY









Catchment Area: 9.9 acres

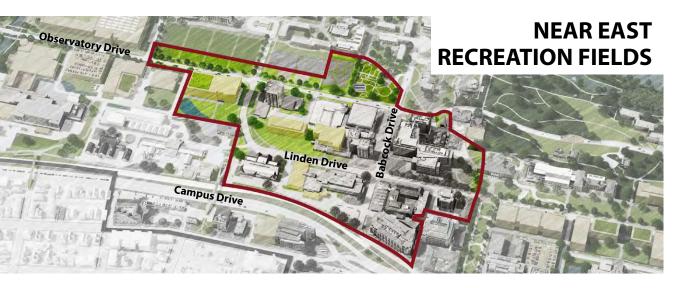
Surface Area: 9,100 sf

Max Depth: 28 inches

Primary Control: 6 inches

TSS Captured: 3,100 lbs/year

Trapping Efficiency: 74%



Catchment Area: 32 acres

Surface Area: 13,100 sf

Max Depth: 4.8 feet

Primary Control: 12 inches

TSS Captured: 7,400 lbs/year

Trapping Efficiency: 58%



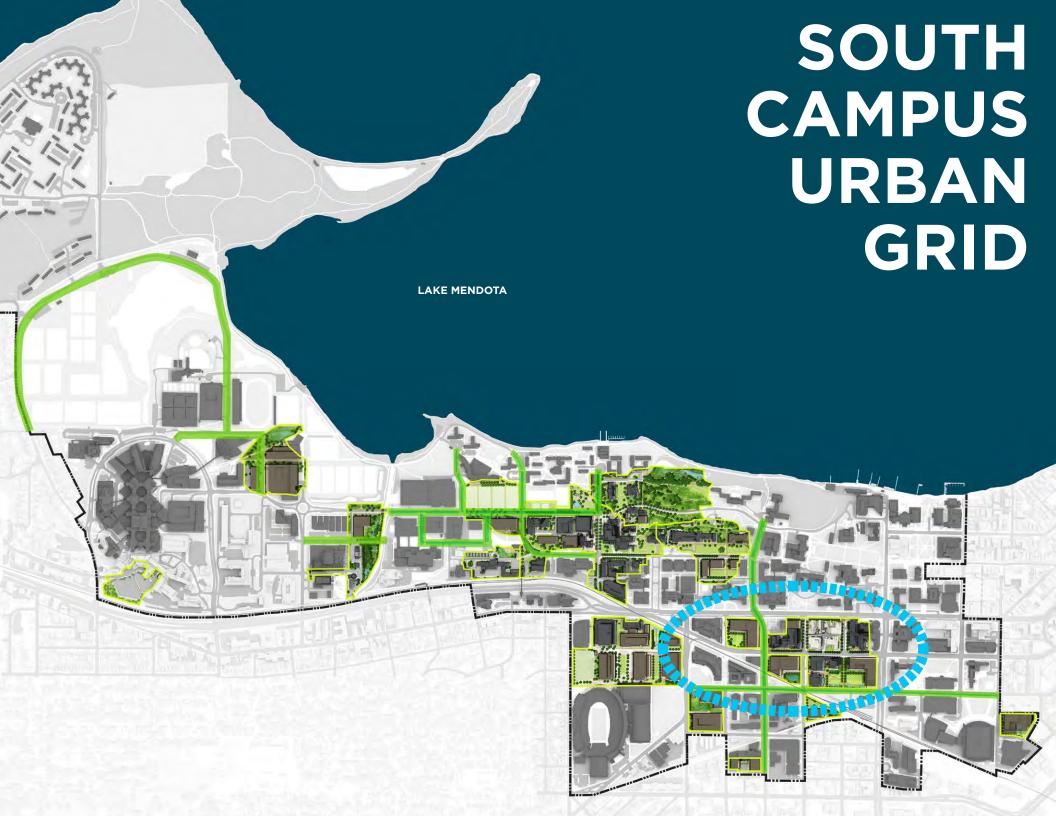
Catchment Area: 16 acres

Surface Area: 14,000 sf

Max Depth: 6 ft

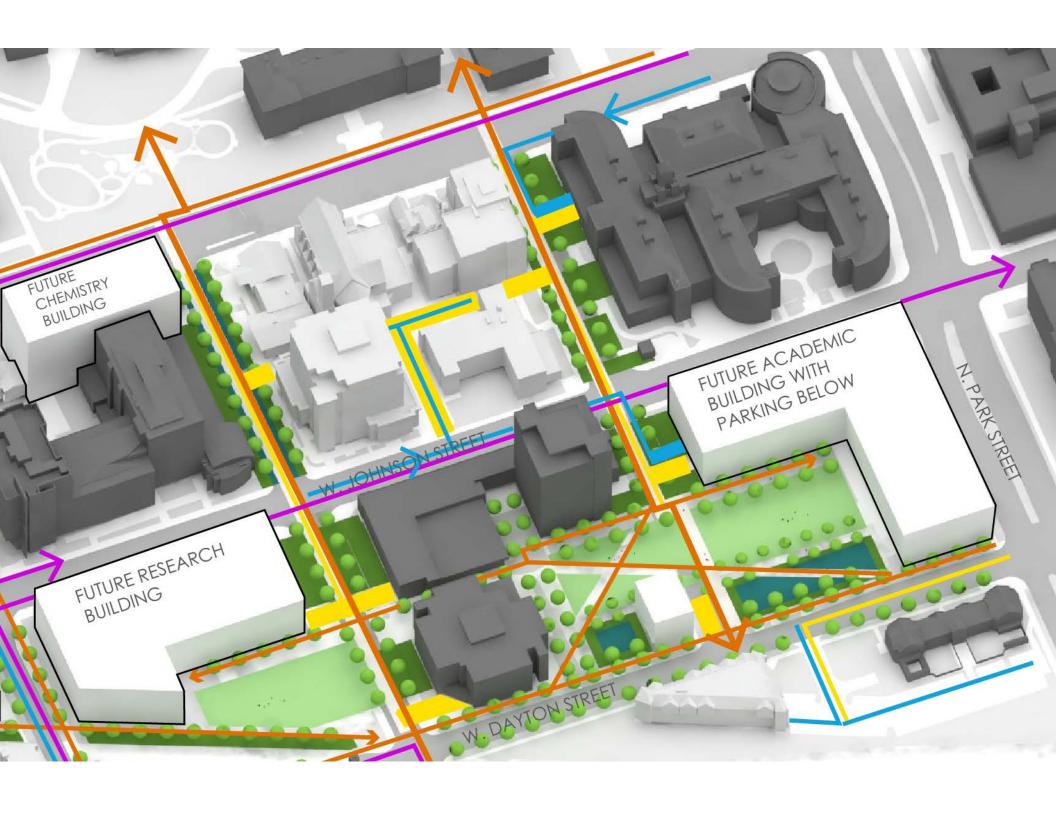
TSS Captured: 4,300 lbs/year

Trapping Efficiency: 71%

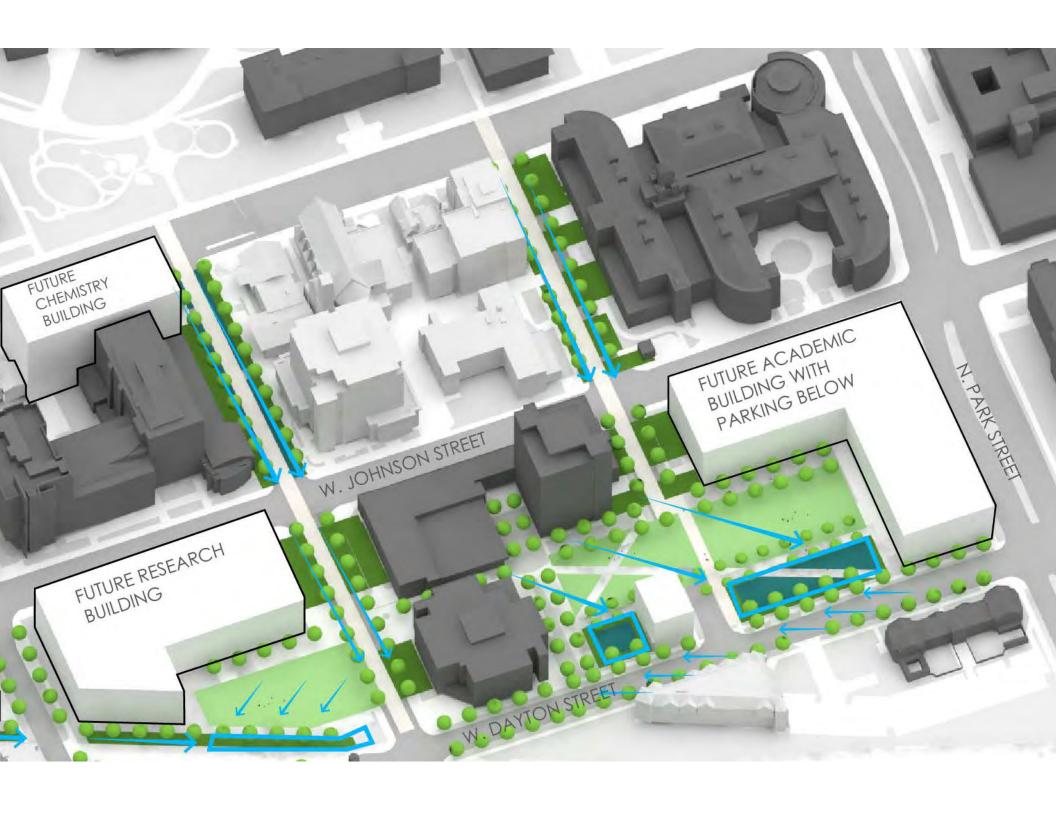


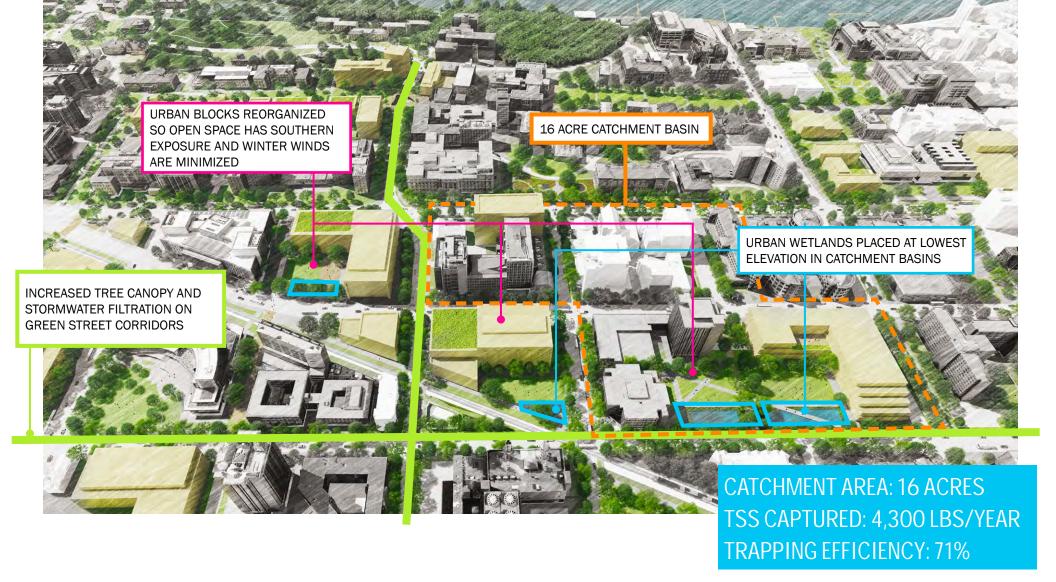




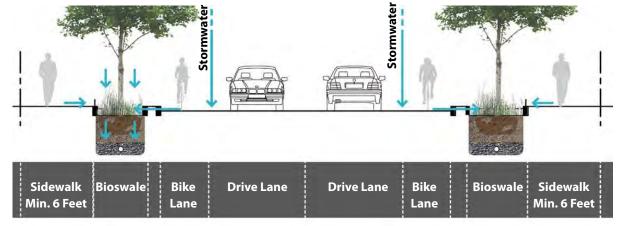




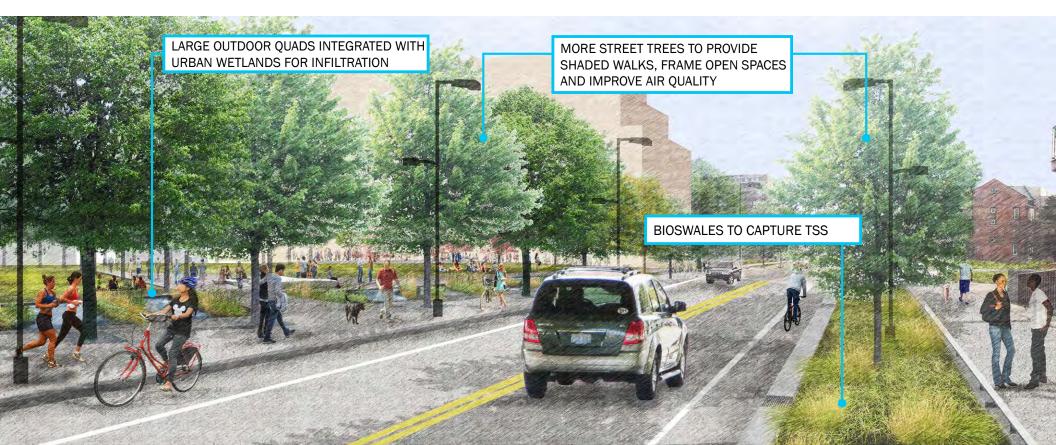










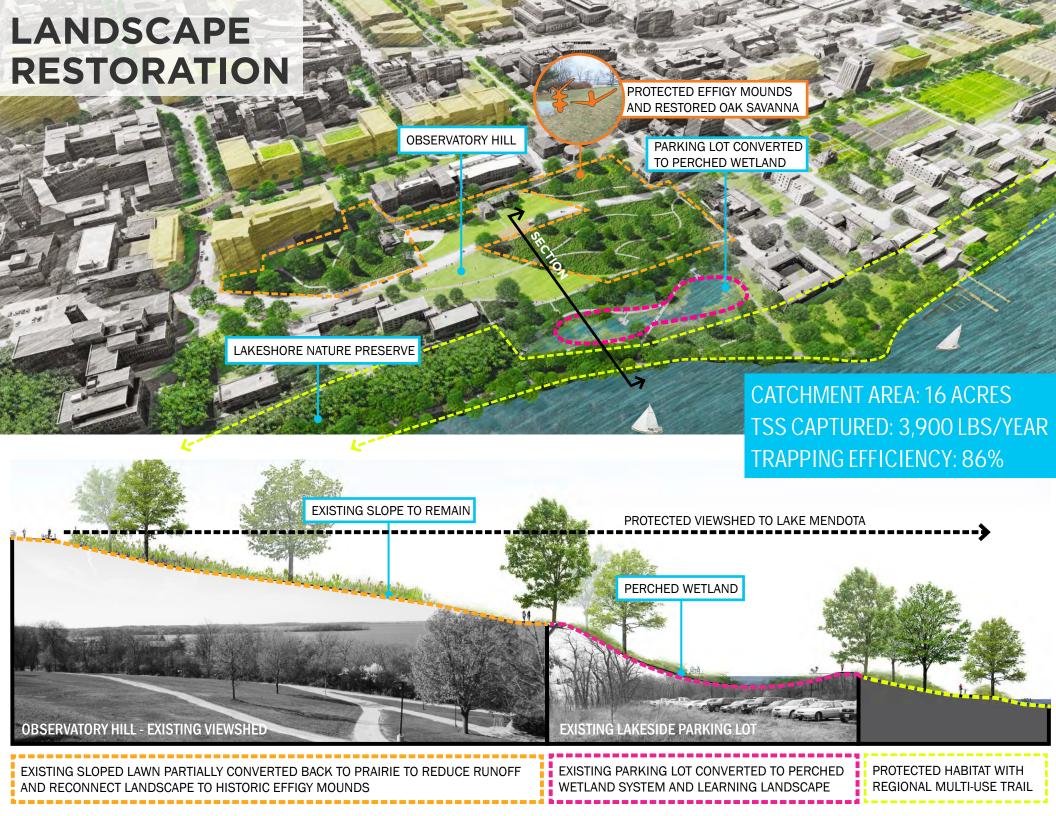


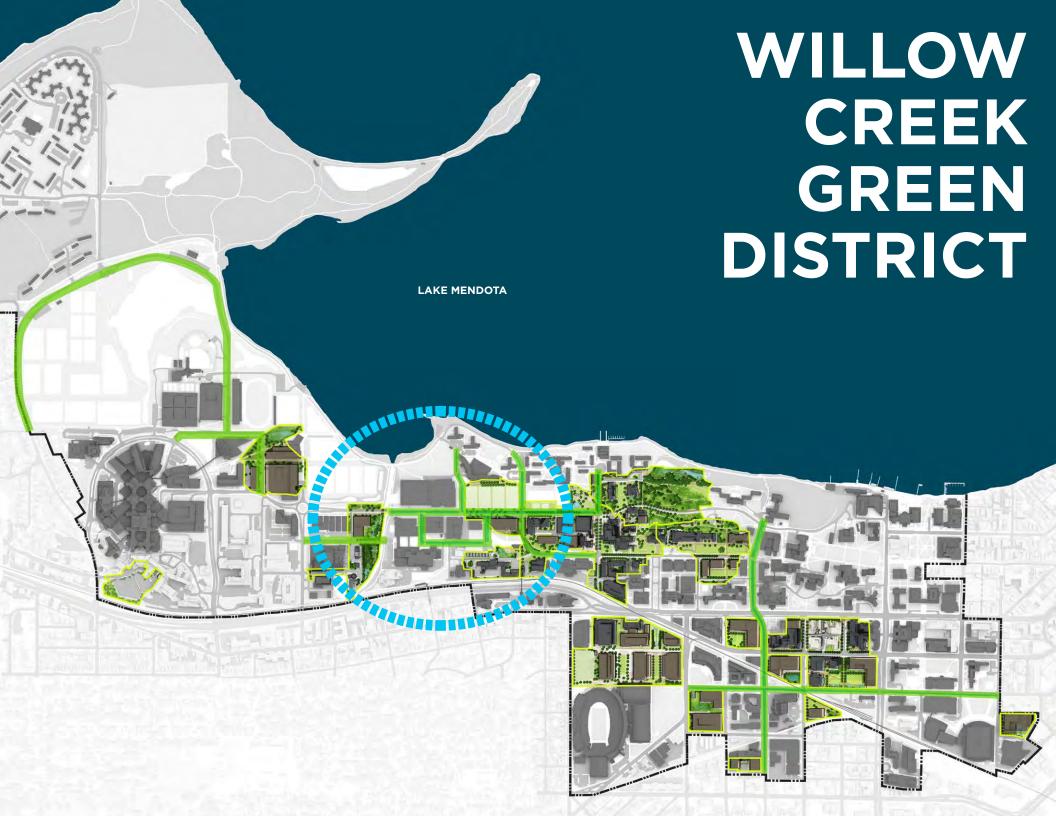


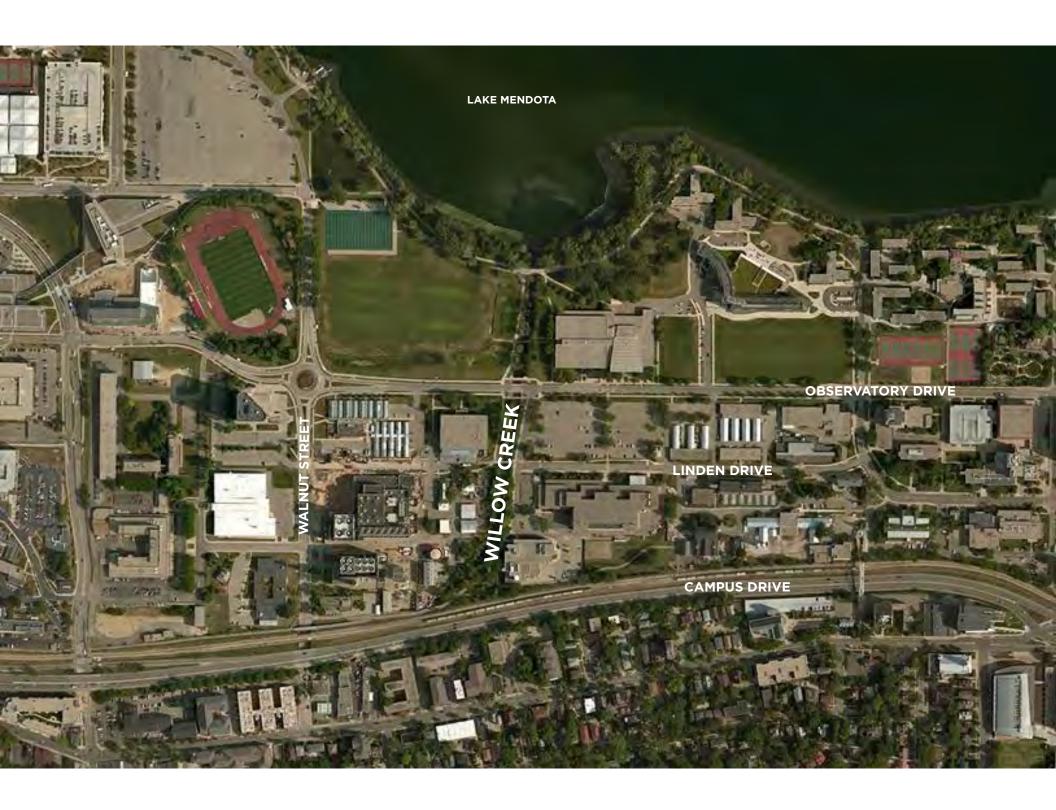




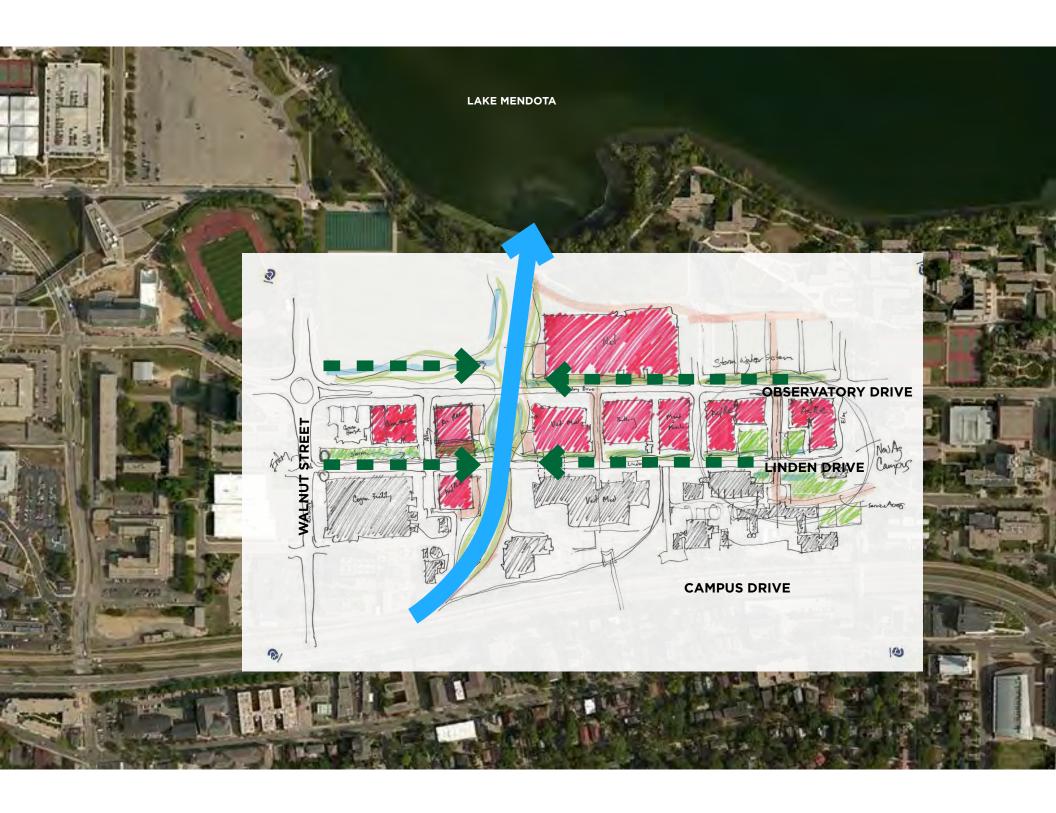


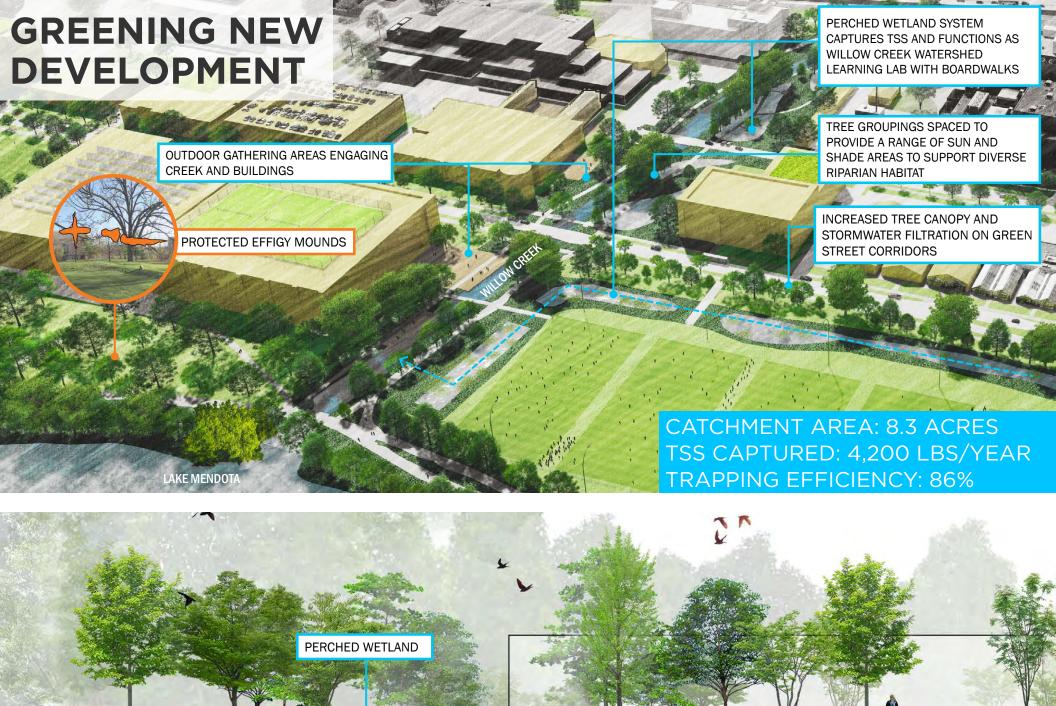






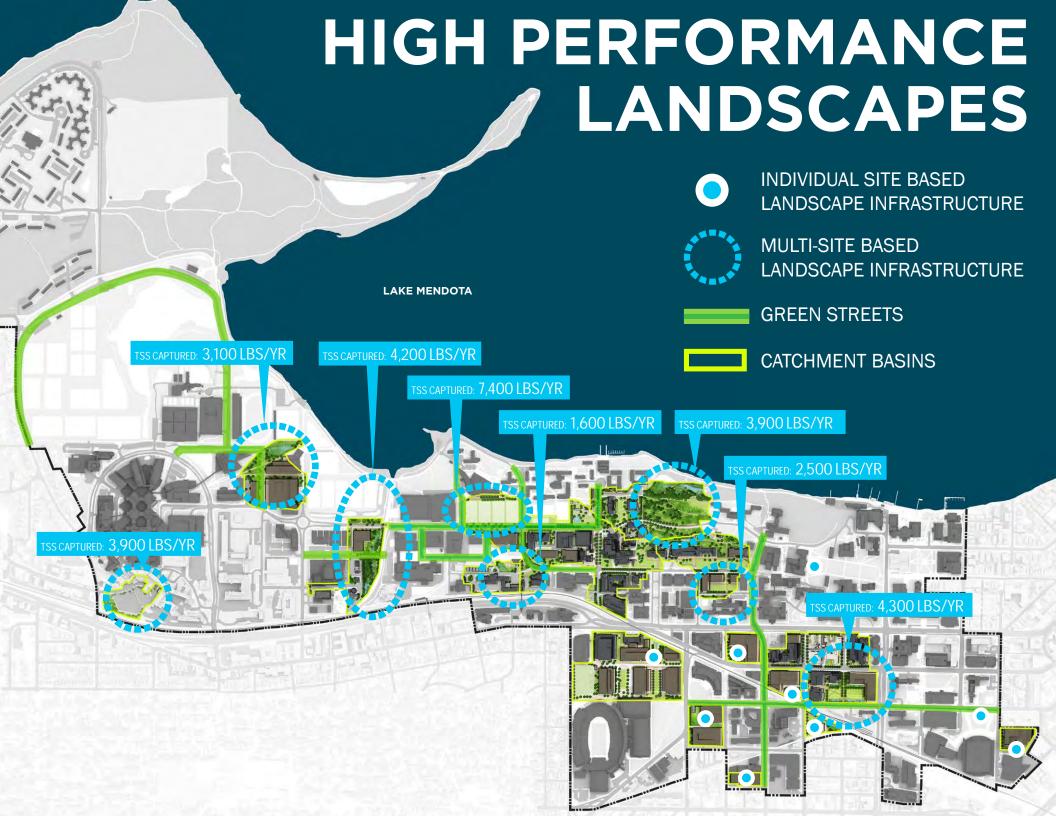




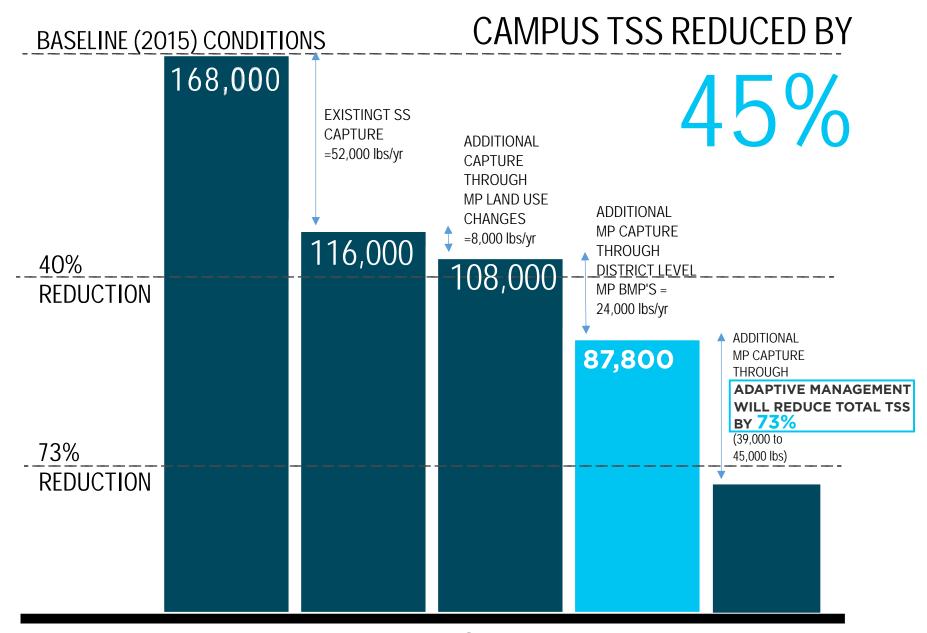


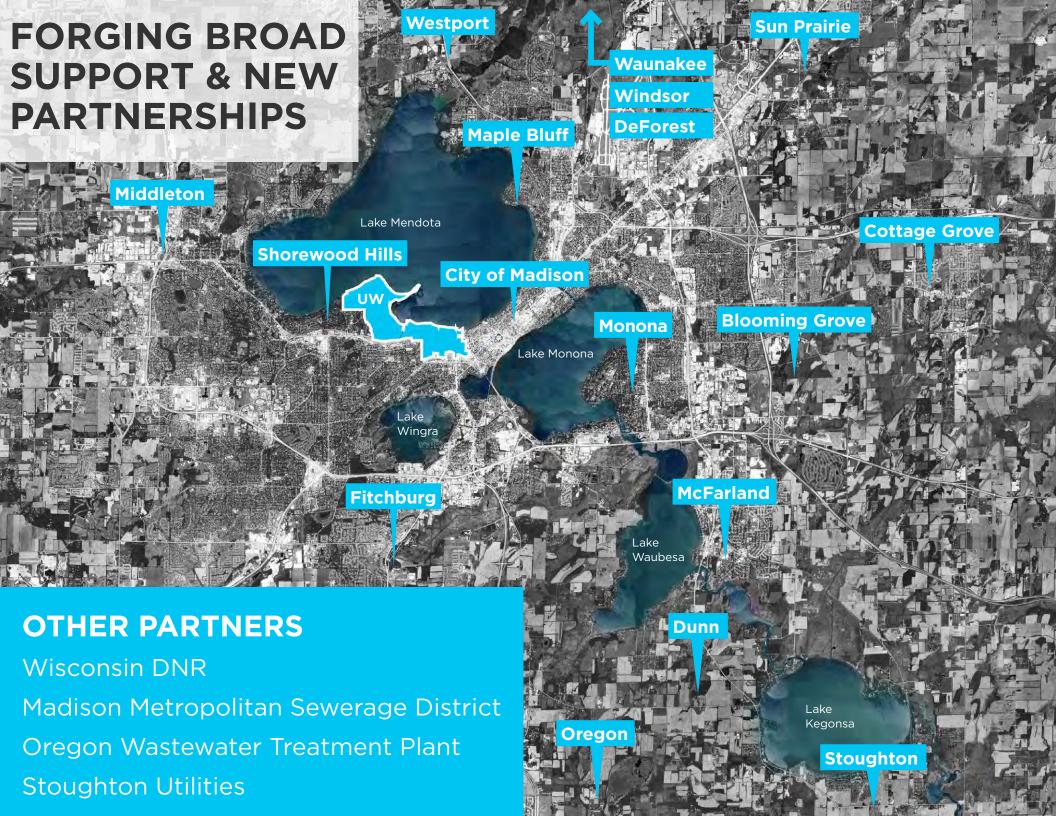






RESULTS HIGH PERFORMANCE LANDSCAPES







OUTREACH

- 250 TOTAL NUMBER OF MEETINGS
- 102 CAMPUS MEETINGS
- 20 NEIGHBORHOOD ASSOCIATION MEETINGS
- 23 CITY OF MADISON MEETINGS
- 65 PLANNING TEAM MEETINGS
- 10,000 WEBSITE USERS AND OVER 28,000 VIEWS

PLANNING TEAM

UNIVERSITY OF WISCONSIN- MADISON SMITHGROUPJJR

HOERR SCHAUDT AFFILIATED ENGINEERS, INC. KIMLEY-HORN

