



WISCONSIN  
UNIVERSITY OF WISCONSIN-MADISON

# CAMPUS MASTER PLAN STATUS REPORT

Joint Campus Area Committee

October 29, 2020

EXTENDING OUR HISTORY - EMBRACING OUR FUTURE

# CAMPUS MASTER PLAN

*“Extending Our History - Embracing Our Future”*



## Focus Areas:

1. Develop our first ever comprehensive Landscape Master Plan.
2. Develop and expand our Stormwater Management/Green Infrastructure Plan.
3. Update the 2005 Campus Master Plan for building capacity on the main campus.
4. Update the 2005 Utilities Master Plan.
5. Update the 2005 Long Range Transportation Plan.

## Goals:

1. Support the university's mission in accordance with the Wisconsin Idea and our land grant heritage.
2. Sustainably manage our physical, financial and cultural resources for future generations.
3. Preserve and celebrate our natural lakeside setting and historic resources.
4. Make travel on campus easy for all users.
5. Revitalize, expand and connect our memorable outdoor spaces.
6. Be good neighbors in maintaining a high quality of life for everyone.

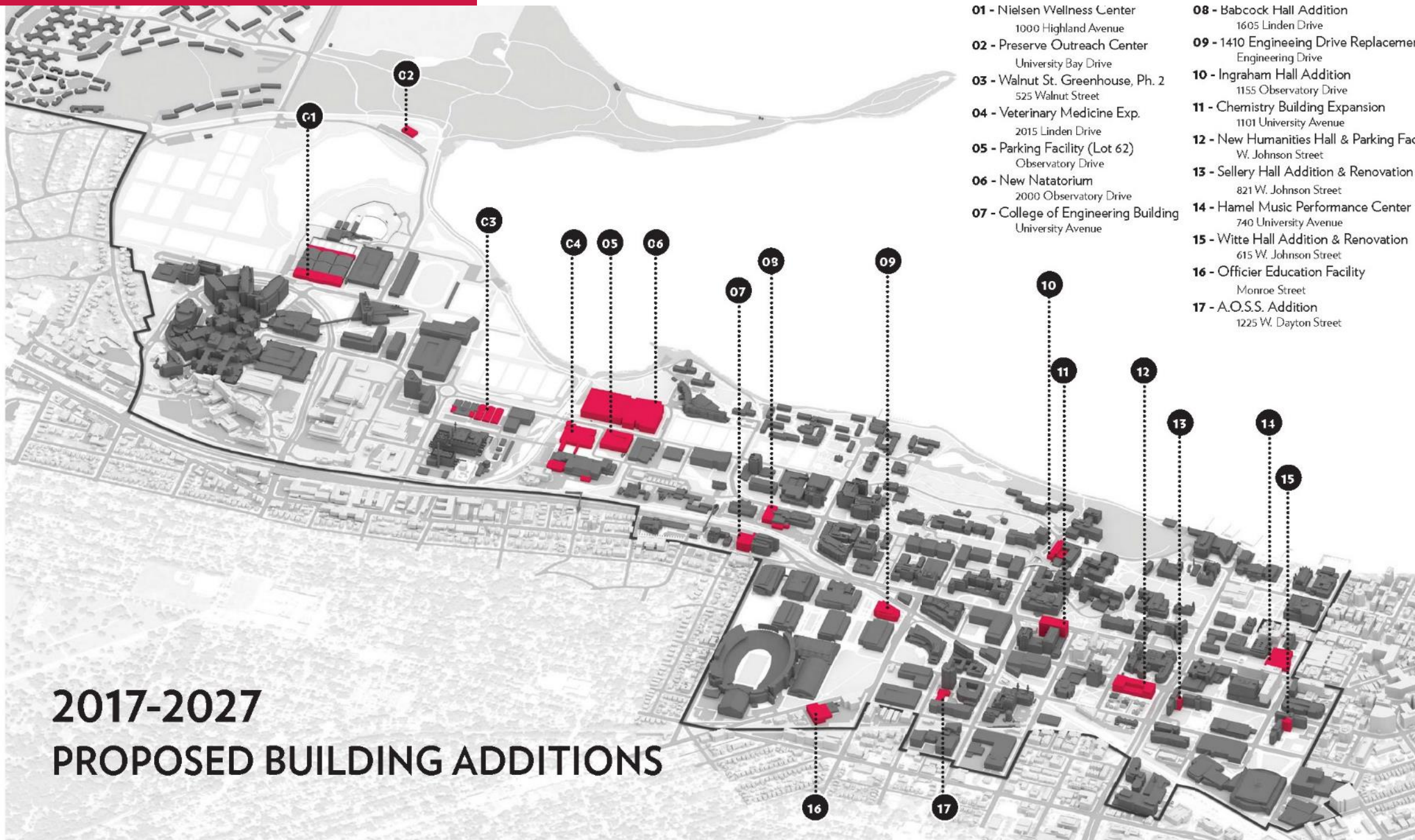


# Major Recommendations

- **Focus on our campus landscape** by preserving and integrating our lakeside setting into the campus. Create new campus greenspaces, open areas, courtyards, plazas and quadrangles to tie and extend the main campus north of University Avenue into the more urban south campus area.
- Continue to **update and renovate our existing building** inventory to make them more flexible for reprogramming and reuse while providing capacity to grow and decompress our existing facilities. Build new buildings when programmatically necessary and with available funding identified.
- Assure our **aging utility infrastructure** is updated and our utility capacity stays ahead of our new future building needs. Maximize our opportunities for renewable energy.
- **Reduce our facility operating costs** and wisely manage our fiscal, physical and cultural resources.

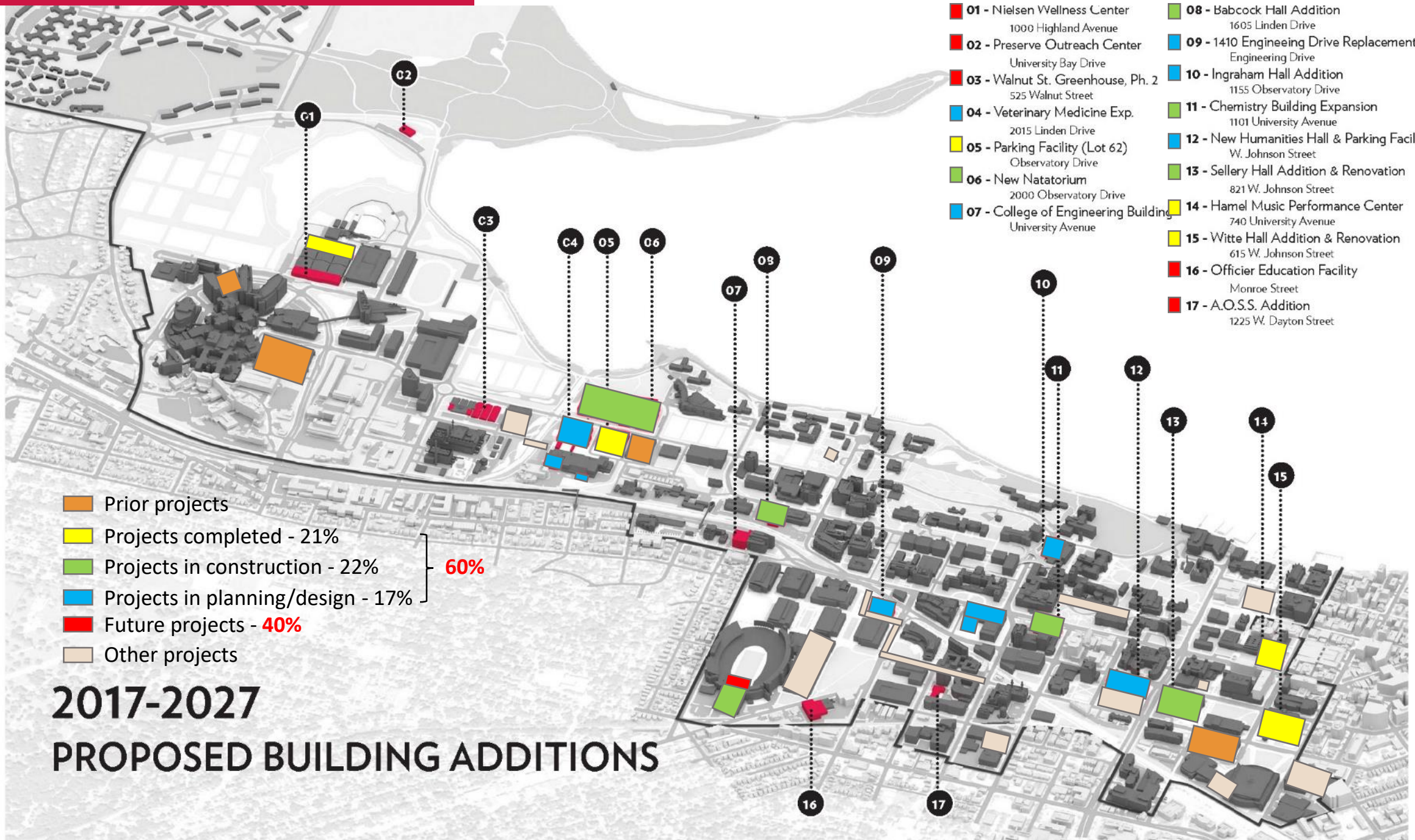
# Major Recommendations

- **Reduce stormwater runoff and increase permeability** of the campus landscape wherever possible to assure a healthy Yahara Lakes System and improve water quality. Become a national leader in stormwater management research, teaching and outreach.
- **Promote bicycling, walking and using alternatives modes** of transportation to and from campus.
- Maintain and expand our nationally known **Transportation Demand Management Plan** to reduce single occupancy vehicles coming to and from campus.
- **Add approximately 2,000 visitor parking spaces** to our existing overall parking capacity of 13,000 spaces over the next 20-40 years, maintaining our low permit ratios of 0.34 spaces/employee.



- 01 - Nielsen Wellness Center  
1000 Highland Avenue
- 02 - Preserve Outreach Center  
University Bay Drive
- 03 - Walnut St. Greenhouse, Ph. 2  
525 Walnut Street
- 04 - Veterinary Medicine Exp.  
2015 Linden Drive
- 05 - Parking Facility (Lot 62)  
Observatory Drive
- 06 - New Natatorium  
2000 Observatory Drive
- 07 - College of Engineering Building  
University Avenue
- 08 - Babcock Hall Addition  
1605 Linden Drive
- 09 - 1410 Engineering Drive Replacement  
Engineering Drive
- 10 - Ingraham Hall Addition  
1155 Observatory Drive
- 11 - Chemistry Building Expansion  
1101 University Avenue
- 12 - New Humanities Hall & Parking Facility  
W. Johnson Street
- 13 - Sellery Hall Addition & Renovation  
821 W. Johnson Street
- 14 - Hamel Music Performance Center  
740 University Avenue
- 15 - Witte Hall Addition & Renovation  
615 W. Johnson Street
- 16 - Officer Education Facility  
Monroe Street
- 17 - A.O.S.S. Addition  
1225 W. Dayton Street

2017-2027  
PROPOSED BUILDING ADDITIONS



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- Prior projects
  - Projects completed - 21%
  - Projects in construction - 22%
  - Projects in planning/design - 17%
  - Future projects - 40%
  - Other projects
- 60%

# 2017-2027 PROPOSED BUILDING ADDITIONS

# LANDSCAPE INITIATIVES

## Major Landscape Initiatives

- 1 Naturalized Observatory Hill
- 2 Sewell Social Sciences Stair and Boardwalk
- 3 Southern Urban Campus Quad
- 4 Revitalized Willow Creek
- 5 Henry Mall Extension to Camp Randall Memorial Park
- 6 Health District Lake Mendota Connection
- 7 Open Space Commons at Horse Barn

### Actively Planning

- Willow Creek Adv Plan
- Engineering Mall
- Library Mall Adv Plan
- Divine Nine Plaza
- L&S Academic Bldg Site
- Lathrop Dr Landscape

--- Campus Development Plan Boundary

Existing Building

Proposed Building

North



# GREEN INFRASTRUCTURE INITIATIVES

## Major Green Infrastructure Initiatives

- 1 Surface Stormwater Facility
- 2 Sub-Surface Stormwater Facility
- 3 Green Streets
- 4 Recreational Fields Underground Stormwater Treatment

L A K E M E N D O T A



- Recently Completed**
- Near West Fields Underdrain
  - The Nick Stormwater Mgmt

- Actively Planning**
- Willow Creek Adv Plan
  - Vet Med Stormwater Mgmt
  - Gym Nat Stormwater Mgmt
  - Near East Fields Strm Mgmt

--- Campus Development Plan Boundary

Existing Building

Proposed Building

North

# TRANSPORTATION INITIATIVES

## Major Transportation Initiatives

- 1 Willow Creek Bridge
- 2 Iconic Pedestrian Bridge
- 3 Walnut Street Removal
- 4 University Avenue Transformation
- 5 N. Brooks Street Pedestrian Mall
- 6 N. Charter Street Two-Way Conversion
- 7 Historic to Southern Urban Campus Connection
- 8 New Underground Parking Structure
- 9 New Above Grade Parking Structure

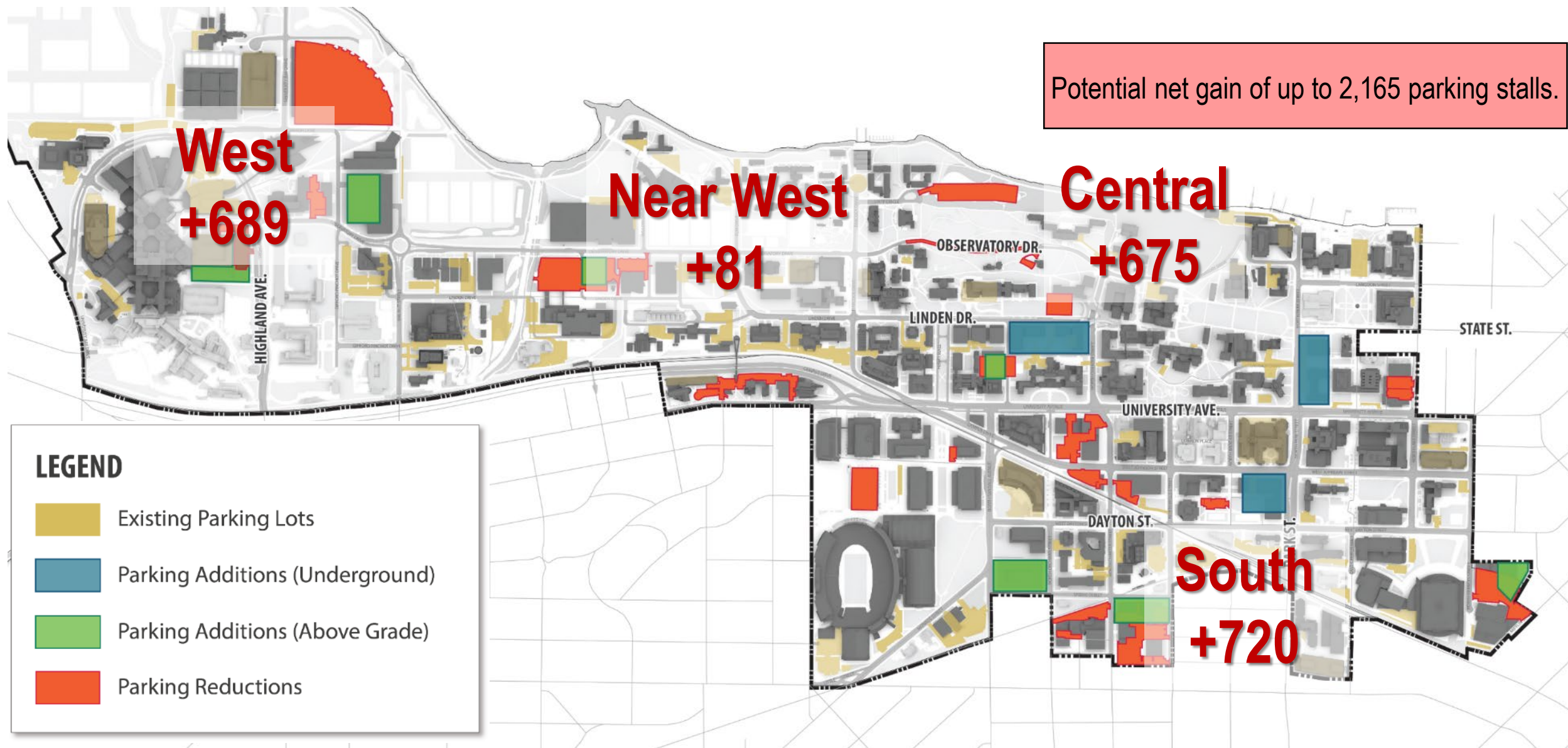


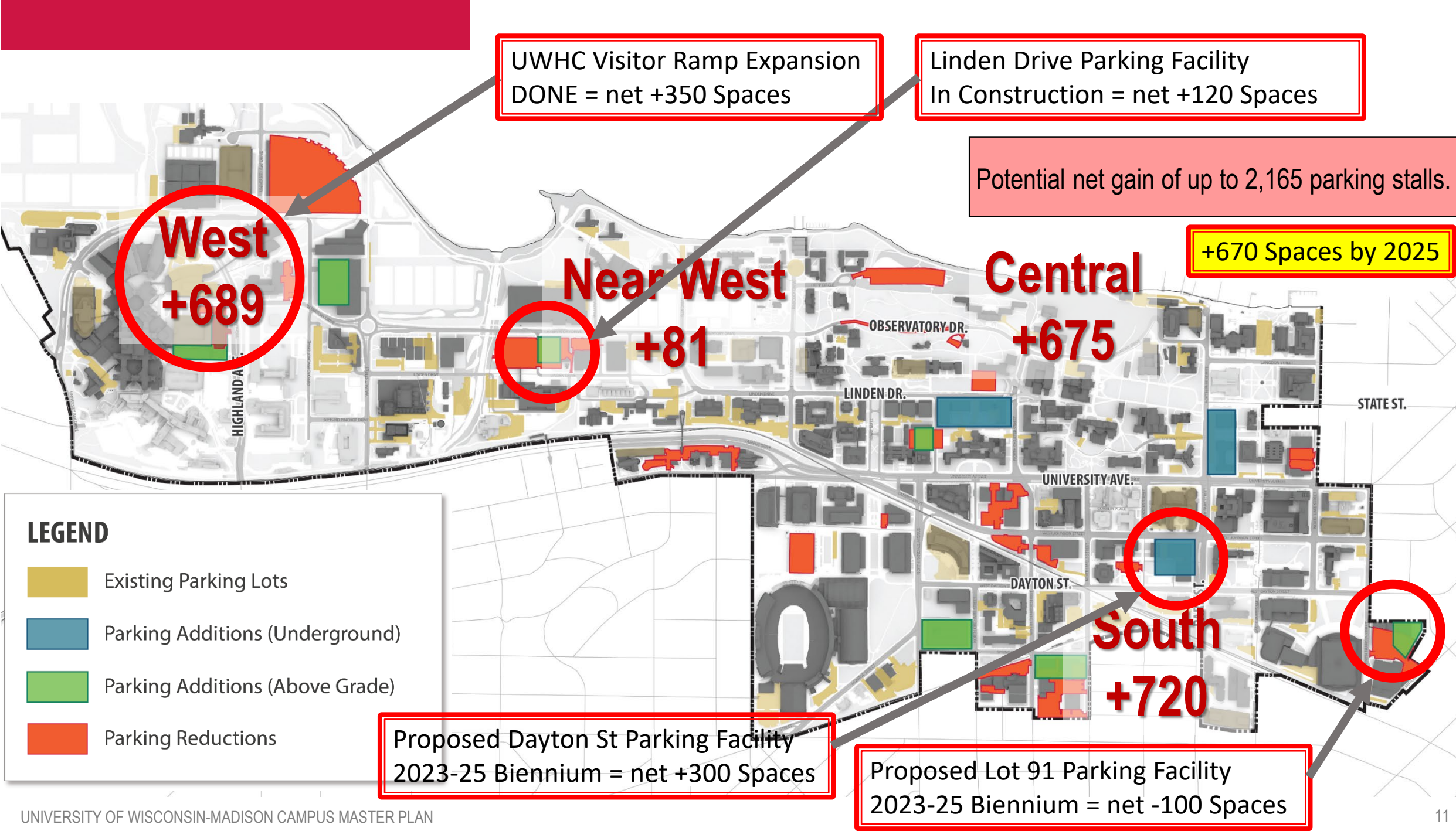
- Recently Completed**
- Hospital Pkg Facility Exp.
  - Linden Dr Parking Facility

- Actively Planning**
- Linden Bridge @ Willow Cr
  - Frances St Parking Facility
  - Dayton St Parking Facility

- Campus Development Plan Boundary**
- Existing Building**
- Proposed Building**







# UTILITY INITIATIVES

- Identified utility improvements
  - Needed because of proposed new construction (e.g. steam and chilled water piping with capacities exceeded)
  - Needed because of age of existing utilities (e.g. Bascom Hill/Lathrop utilities)
  - Needed because of new master plan initiatives (e.g. Dayton Street)
- Steam, Chilled Water, Electrical, Potable Water
- Focus on reliability and sustainability

## Recently completed projects:

- South Campus Utilities (W. Dayton St. from N. Mills to N. Park Sts)
- Bascom Hill-Lathrop Dr, Phase I
- Charter Street (W. Dayton St. to W. Johnson St.)

## Current projects in planning & design:

- Bascom Hill-Lathrop Dr, Phase II
- Engineering Dr Utilities Adv. Plan (incl. Randall Ave & W. Dayton St)



# Sustainability in the Campus Master Plan

- **Building Capacity Plan**

- Fully study options for renovation & reuse to meet program needs before demo and building new is considered
- If demo is the best financial option, then deconstruct the existing building & recycle materials
- Reduce our overall footprint of maintainable space yet allow for future building options
- Design guidelines and update of our technical guidelines
- Continue to promote sustainable design and materials selection
  - Incorporation of AIA COTE Top 10 Toolkit in planning initiatives
  - Sustainability Tracking, Assessment, & Rating System (STARS) reporting
  - New DOA/DFDM Sustainability Guidelines (2020)

- **Landscape Master Plan**

- Convert mowed lawns and heavily maintained landscapes to more naturalized landscapes
- Utilize native plants whenever possible as they are better adaptable to urban & climate extremes
- Focus landscape improvements on green infrastructure to help with storm water mitigation
- Increase urban tree canopy

# Sustainability in the Campus Master Plan

- **Green Infrastructure / Stormwater Management Plan**

- Meet and go beyond state requirements
  - **Developing MOU's with city and regional partners – MS4 Permit**
- Be a leaders in demonstration projects and how we manage stormwater on campus
- Provide opportunities for research projects and educational interpretation of stormwater BMPs

- **Utility Master Plan**

- Reduce existing building energy use
- **Reduce loads by reusing, reprogramming & renovating existing buildings**
- Maximize purchase and generation of sustainable alternative power (**new Fitchburg PV farm**)
- Track consumption & emissions
- Review options for photovoltaics, geothermal, transpired solar collectors, solar thermal, wind & nuclear power as well as biomass production & use

# Sustainability in the Campus Master Plan

- **Transportation Master Plan**

- Continue Transportation Demand Management initiatives to reduce SOVs on campus
- Moped parking program implemented to reduce number of mopeds on campus and manage their use to reduce pedestrian/vehicular conflicts
- Continue improvements to bicycle, pedestrian and transit modes, including Bus Rapid Transit
  - Electric bikes
  - Electric Scooters & Micro-mobility devices
  - Ride-share programs
- Provide 2,200 +/- new visitor parking spaces bringing total up to about 15,000 spaces on campus

# Sustainability in the Capital Budget Planning Process

## **Planning Priorities for the 2021-23 Capital Budget & 2021-27 Six-Year Capital Development Plan**

- Maximize the use and reuse of existing facilities.
- Design adaptable, efficient and easily maintainable facilities.
- Reduce deferred maintenance (\$1.6B)
- Strategic alignment to optimize use of limited resources.
- Reduce project lead time & increase delivery efficiencies

## **Planning Priorities for the 2023-25 Capital Budget & 2023-29 Six-Year Capital Development Plan** (to be discussed in December 2020)



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LAKE MENDOTA

-  Campus Development Plan Boundary
-  Existing Building
-  Proposed Building

