2012 Campus Master Plan Update: Framework for Campus Development

Campus Master Plan Presentation to the Board of Regents 29-30 November 2012
Purpose of the Campus Master Plan Update

- Driven by UNLV mission + strategic goals
- Support UNLV accreditation process
- Opportunity-based yet realistic
- Align academic, spatial, fiscal, and physical visions
- Provide powerful ideas developed through a methodical process with campus, community, public/private partner input
- Implementable in short-, mid-, and long-term strategies
- Flexible, data-driven and rational
MISSION: The University of Nevada, Las Vegas is a research institution committed to rigorous educational programs and the highest standards of a liberal education. We produce accomplished graduates who are well prepared to enter the work force or to continue their education in graduate and professional programs. Our faculty, students, and staff enthusiastically confront the challenges of economic and cultural diversification, urban growth, social justice, and sustainability. Our commitment to our dynamic region and State centrally influences our research and educational programs, which improves our local communities.
1963

2012. 49 years later...

Future.
Key Accomplishments Since the Last Plan

Lynn Bennett Early Childhood Education Center 2004
Dayton Complex 2004
Architecture School Addition 2006
Cottage Grove Parking Addition 2006
Thomas & Mack Moot Court 2007
Student Recreation and Wellness Center 2007
Science Teaching Labs 2007
Student Union 2007
Greenspun Hall 2008
Police Headquarters 2008
Science and Engineering Building 2009
Student Services Complex Addition 2009
Tropicana Parking Garage 2010
Graduate Art Studios 2012
Mendenhall Center 2012

Total Campus Development Guided by 2004 Master Plan: 1.5M+ GSF
Planning Context + Baseline Assumptions

- Campus Core-2004 Campus Master Plan
- Midtown UNLV-2006 Campus Area Plan
- UNLV NOW-Future Area Plan for Mega Events Center and Student Village
- Clark County Land for Athletics and Recreation
Area Plan – UNLV Now Project

Existing land area for UNLV core campus: 342ac

Existing surface parking realigned for more efficient use (net gain due to increased structure parking): 40ac

Clark Co. land potentially available for UNLV planning (per MOU net of 56 ac total): 38ac

Net additional acreage available to UNLV (based on Clark County potential land use and existing campus land use efficiencies): 78 ac

Land Area for Mega Events Center: (12ac)

Land Area for Student Village (includes associated parking and retail, with 1,000-2,000 residential beds contingent on FAA approval): (25ac)

Net acreage for UNLV Now Project:

Mega Events Center associated improvements available for daily use by UNLV: 37 ac

18 ac
Mega Events Center – UNLV Now Project

Mega Events Center (12 ac)
- +/- 1,000,000 SF
- +/- 60,000 seats
- Overall height +/- 170’ with FAA approval required – Mega Events Center will need to be partially below grade
- Signage for the Mega Events Center on the exterior and interior of the facility
- Connections to campus through mall to the west and Harmon Ave to the East with assumed transit support for events
- Parking, traffic mitigation, transit and infrastructure will be developed in conjunction with the Mega Events Center as noted in the Campus Master Plan Update
Student Village— UNLV Now Project

Student Village (25 ac)

- 350,000–450,000 SF Retail
- Parking including dedicated parking for retail, dining, service and hotel/conference center — estimated at +/-1,250 parking spaces
- 1,000-2,000 Student Housing Beds with FAA and Clark County approval required
- Anticipated uses include Retail (campus, community and visitor focused), Dining, Services, potential University and Affiliated uses, Hotel/Conference Center
- Building heights in the +/-25’ - 55’ range
- Traffic impacts to be addressed through traffic mitigation measures per this campus master plan and further Clark County/NDOT collaboration

- Connections to the Mega Events Center and rest of campus
- Architecture to be generally consistent with the UNLV campus design standards
- Anticipated range of 1.5-2 Floor to Area Ratio (Student Village Density Measure)
- Employment projections and impacts to be determined
Comprehensive Process + Engagement

- Inclusive + consensus-oriented
- Input + feedback
- Outreach meetings April, July, September + October
- Students, faculty, staff, alumni, UNLV Foundation, Board of Regents members, Clark County, McCarran International Airport, Regional Transportation Commission, NDOT, utility providers, community-at-large, others
## Campus Capacities

### The Campus Today

- **Student Headcount (Fall 2012)**: 26,410
- **Student FTE**: 19,000
- **Faculty/Staff**: 2,742
- **Total Campus Population**: 29,152

- **Campus Acreage**: 342
- **GSF (non-residential)**: 4.8M
- **GSF Per Student**: 181
- **Floor Area Ratio (FAR)**: 0.33
- **Parking Spaces-UNLV only**: 12,500
- **Ratio of People to Parking Spaces**: 2.35
- **Total Number of Occupied Beds**: 1,100
- **Living on Campus**: +/- 5%

### Growth Capacity

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Number</th>
<th>Additional Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student FTE</td>
<td>30,000 (11,000)</td>
<td></td>
</tr>
<tr>
<td>Faculty/Staff</td>
<td>4,000 (1,250)</td>
<td></td>
</tr>
<tr>
<td>Total Campus</td>
<td>39,000 (9,750)</td>
<td></td>
</tr>
<tr>
<td>Parking Spaces</td>
<td>16,500 (4,000)</td>
<td>2.35*</td>
</tr>
<tr>
<td>Ratio of People to Parking Spaces</td>
<td>2.35*</td>
<td>+/- 25%</td>
</tr>
<tr>
<td>Living on Campus</td>
<td>+/- 25%</td>
<td>9,000 (7,900)</td>
</tr>
</tbody>
</table>

*On-campus housing and additional transit should reduce future ratio of people to parking spaces*
Outreach + Partner Development

Private Developers
- American Nevada
- AVS Group
- Majestic Realty
- Vista Group
- Others

Public Agencies
- Clark County Aviation Department
- Clark County Comprehensive Planning
- Clark County Public Works
- Clark County Traffic Management
- Las Vegas Convention and Visitor’s Authority
- Regional Flood Control District
- Regional Transportation Commission
- Others

Utility Companies
- Century Link
- Las Vegas Valley Water District
- Nevada Power
- Southwest Gas
- Water Reclamation District
- Others

University-Affiliated
- UNLV Alumni
- UNLV Foundation
- UNLV Community (Faculty, Staff, Students, Others)
- Food Service Vendor-Aramark
- Others
Guiding Principles

**Strengthen and Enhance the Academic + Research Core**
- Become an institution of choice in the region and the country
- Plan for 35,000 students, consider implications for 40,000

**Improve Community Connections + Support Economic Development**
- Mega Events Center, Midtown UNLV, Student Village
- Image, entries + gateways

**Expand Campus Housing + Quality of Campus Life**
- 25% on campus housing
- Increase student life opportunities + 24-hr vitality

**Enhance University Athletics, Recreation + Open Spaces**
- Bring mega events and UNLV football to campus
- Maintain consolidated athletic campus
- Expand student recreation opportunities

**Optimize Development Capacity + Maximize Utilization**
- Increase campus density
- Enhance campus aesthetic + edges
- Improve interface with community and Maryland Pkwy

**Embody Sustainability and Innovation in Physical Design**
- Transform campus with Mega Events Center + Student Village
- Advance UNLV as an economic engine
- Improve recognition of UNLV + exposure to campus
- Increase recruiting + stature of university
- Improve retention of faculty, staff and students
- Improve campus connections
Academic Growth
Academic Growth

- Reinforce academic precincts/campus neighborhoods
- Provide adequate expansion opportunities for campus core activities (academic, research, campus life, STEM, other)
- Increase interaction + interface between academic precincts/campus neighborhoods
- Include current capital priorities, such as: Hotel College, Grant Hall Replacement, Instructional Lab

EXISTING

PROPOSED

LEGEND
- ACADEMIC CORE
- ACADEMIC CORE + SCIENCE
- ACADEMIC: ARTS
- ACADEMIC: PROFESSIONAL
- OUTREACH
Residential Growth
Residential Demand

Current Occupancy (1,100 Beds)
Current Est. Demand (4,500 Beds)
35K Students (6,500 Beds)
40K Students (9,000 Beds)

Housing data compiled with assistance from the AVS Group

Housing types with 35,000 to 40,000 students

- Apt.: 27%
- Suite: 28%
- Semi-Suite: 45%
Residential Growth

<table>
<thead>
<tr>
<th>Area</th>
<th>Neighborhood</th>
<th>Population</th>
<th>Unit Type</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Campus Core</td>
<td>Undergraduate: First-Year and some Sophomores; Nonresidential; International</td>
<td>Semi Suite</td>
<td>4,000</td>
</tr>
<tr>
<td>B</td>
<td>Midtown North</td>
<td>Undergraduate: Sophomores and some Juniors/Seniors and Graduate Students</td>
<td>Suite and Apartment</td>
<td>5,000</td>
</tr>
<tr>
<td>C</td>
<td>Midtown East And Other</td>
<td>Undergraduate: Juniors/Seniors and some Sophomores; Greek; Graduate Students; Faculty; Staff; Family Students</td>
<td>Suite and Apartment</td>
<td>1,000</td>
</tr>
</tbody>
</table>

* Opportunity to Add 1,000-2,000 beds to Student Village contingent upon FAA + Clark County Approval
Open Space

- Enhance + extend malls as campus organizing system
- Improve campus edges
- Increase open spaces as campus density increases
- Create a hierarchy of interconnected places
- Develop “signature” open space adjacent to Lied Library
Circulation + Parking
Pedestrian + Bicycle Circulation

- Strengthen the pedestrian-friendly academic core
- Create a hierarchy of corridors with minimal vehicular conflicts
- Establish primary pedestrian corridors separate from service corridors
- Improve major + minor pedestrian entries

LEGEND
- OFF CAMPUS BIKE ROUTES (RFC)
- ON CAMPUS BIKE ROUTES
- PRIMARY PEDESTRIAN ROUTES
- PEDESTRIAN BIKE + SHARED SERVICE
- WALKING RADIUS
- SERVICE AREAS
Vehicular Circulation

- Establish distributed parking model to support efficient vehicular access to campus
- Enhance perimeter parking and core pedestrian access
- Minimize conflicts between vehicles and pedestrians
- Improve vehicular entries
Transit

- Develop initial phase transit center with RTC
- Work with RTC to enhance and expand alternative transit modes to and through campus
- Plan for campus shuttle loop
Future Parking Demand Projections/Parking Peaks

- Provide adequate parking spaces for phase 1 Mega Events Center (MEC) and current campus need
- Plan for parking resources to meet long-range development for campus growth and MEC
- Shared parking model and management for MEC and UNLV can prevent excess parking supply resource allocation
- Align parking supply with direction of approaching campus and event traffic
- Locate parking to support campus population centers and event traffic

Parking data compiled with assistance from Kimley Horn

<table>
<thead>
<tr>
<th>Phase</th>
<th>Parking Generator</th>
<th>Campus Peak 12:00pm</th>
<th>Evening Peak 4:00pm</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNLV Campus</td>
<td>10,500</td>
<td>4,100</td>
<td>-</td>
<td>14,600</td>
</tr>
<tr>
<td>Thomas and Mack Center 87%</td>
<td>-</td>
<td>-</td>
<td>11,750</td>
<td>-</td>
</tr>
<tr>
<td>Mega Events Center 87%</td>
<td>-</td>
<td>-</td>
<td>1,250</td>
<td>-</td>
</tr>
<tr>
<td>Student Village</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Total</td>
<td>18,100</td>
<td>28,900</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Full Build Out

- UNLV Campus Full Build Out
- Thomas and Mack Center as Currently Exists
- Mega Events Center
- Combined

Time of Day

- 8:00am
- 9:00am
- 10:00am
- 11:00am
- 12:00pm
- 1:00pm
- 2:00pm
- 3:00pm
- 4:00pm
- 5:00pm
- 6:00pm
- 7:00pm
- 8:00pm
- 9:00pm
- 10:00pm
Existing 12,500 spaces

Phase 1 23,500 spaces

Full Build-Out 23,500-29,000 spaces

Parking data compiled with assistance from Kimley Horn
Traffic Mitigation - Options For Improvements

• Provide additional traffic lanes as noted to accommodate enhanced event traffic flow
• Provide additional signalized or managed intersections as noted
• Distribute UNLV parking and increase use of alternate transportation modes
• Develop pedestrian bridges across Paradise and Tropicana as noted
• Provide improved pedestrian and bike routes on campus

Traffic data compiled with assistance from Kimley Horn

SMITHGROUP JJR
Athletics + Recreation

- Utilize Mega Events Center to bring UNLV football to campus
- Relocate UNLV baseball, softball, soccer, track and field, and tennis to campus gateway at Swenson + Paradise
- Relocate natatorium and athletic support facilities adjacent to Thomas and Mack
- Provide dedicated campus intramural and recreation fields west of Paradise
- Develop fields for informal recreation adjacent to academic core and campus housing/living-learning neighborhoods
Priorities + Phasing

Initial Priorities 0-5 years

Mid-Term Phases 6-10 years

Long-Range Opportunities 11+ years

UNLV

SMITHGROUP JJR
On-Going Activities

- Clark County/FAA approvals for Mega Events Center height, UNLV athletic lights, land use
- Clark County agreement for use of land
- Amendment of 1996 Clark County/FAA agreement regarding housing and height restrictions
- Continued collaboration with Clark County regarding traffic mitigation
Iconic Campus Center - Library Quad

View from FDH looking west towards Lied Library and Harmon

UNLV
SMITHGROUP JJR
Residential and Living/Learning Communities

View from Tropicana looking north towards Dayton Complex
Maryland Parkway Edge

View from MD Pkwy looking west towards Lied Library
Science + Research Expansion
And Mega-Events Interface

View looking south towards Thomas & Mack
View from Paradise looking east towards Thomas & Mack
A vision for the future