I. Introduction
   • Website: www.facilities.umd.edu/MasterPlan
   • Planning Framework
II. Landscape
III. Transportation
IV. Landuse
V. Next Steps
a layered approach

Planning for a holistic community

Buildings + Districts

Recreation + ICA

Transportation

Arboretum + Botanical Gardens
II. landscape

1. Regional Context
2. Campus Natural Systems
3. Campus Landscape Systems
4. Stormwater Management
5. Arboretum and Botanical Gardens
6. Districts and Phasing
7. Recommendations for Iconic Spaces
regional context
from *Maryland's Geology* by Martin F. Schmidt, Jr.
county open spaces network
Existing green infrastructure
In Prince George’s County
regional watersheds
The University of Maryland completes a link in the regional network of green open space.
1. topography
2. water bodies and riparian corridors
3. forests
hydrology
floodplain

approximate 100-year Paint Branch floodplain
hydrology

current wetlands

- approximate 100-year Paint Branch floodplain
- current wetlands delineated by DNR + UMD
- current waterbodies
forests

current easements

current canopy cover
(ca 2010)
forests

future easements

- current canopy cover (ca 2010)
- existing forest conservation areas
- future forest conservation areas
natural systems

campus forest system
natural systems

campaign water system
natural systems
1. Existing open spaces & landscape corridors

2. Proposed open spaces & landscape corridors
campus open space framework

- Existing green network
- Significant drainage divides
campus open space framework

- Existing green network
- Significant drainage divides
- Existing campus open spaces
Campus Open Space Framework

- Existing green network
- Existing campus open spaces
- Proposed network connections
- Campus corridors
- Proposed campus open space connections
existing campus systems

open space

natural systems

existing formal open space
existing campus systems

open space

natural systems

existing formal open space

existing informal open space
 existing campus systems

corridors

- natural systems
- existing formal open space
- existing informal open space
- existing recreation/athletic space
- existing landscape corridors
FACILITIES MASTER PLAN
UNIVERSITY OF MARYLAND

Cambus system enhancements
Corridors

- Natural systems
- Existing formal open space
- Existing informal open space
- Existing recreation/athletic space
- Proposed recreation/athletic space
- Proposed open space
- Proposed landscape corridors
- Important axes
stormwater management
## Redevelopment ESD Requirements

<table>
<thead>
<tr>
<th>MDE Designation</th>
<th>MDE Name</th>
<th>RCN/Pe</th>
<th>S.F. (C.F.) ESD/S.F. IMPERVIOUS (&quot;C&quot; Soils)</th>
<th>Historic Core (Areas 6,8,21)</th>
<th>Events (Area 5)</th>
<th>Northeast (Areas 13,21,22)</th>
<th>Northwest (Areas 2, 3, 4, 14, 19, 20)</th>
<th>South (Areas 0, 1, 7)</th>
<th>North (Areas 11, 12, 14, 15, 16)</th>
<th>West (Area 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-1</td>
<td>Green Roofs</td>
<td>77</td>
<td>1.20/1.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>A-2</td>
<td>Permeable Pavements</td>
<td>70</td>
<td>1.00/1.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>A-3</td>
<td>Reinforced Turf</td>
<td>74</td>
<td>1.15/1.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>N-1</td>
<td>Disconnection of Rooftop Runoff</td>
<td>0.6</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>N-2</td>
<td>Disconnection of Non-Rooftop Runoff</td>
<td>0.6</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>N-3</td>
<td>Sheetflow to Conservation Areas</td>
<td>0.6</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td></td>
<td><strong>Micro-Scale Practices</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-1</td>
<td>Rainwater Harvesting</td>
<td>N/A</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>M-2</td>
<td>Submerged Gravel Wetlands</td>
<td>N/A</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>M-3</td>
<td>Landscape Infiltration</td>
<td>N/A</td>
<td>N/A 'C' Soil</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-4</td>
<td>Infiltration Berms</td>
<td>N/A</td>
<td>1.00/12.00</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-5</td>
<td>Dry Wells</td>
<td>N/A</td>
<td>N/A 'C' Soil</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-6</td>
<td>Micro-Bioretention</td>
<td>0.6</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>M-7</td>
<td>Rain Gardens</td>
<td>0.4</td>
<td>1.00/12.00</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>M-8</td>
<td>Swales - Grass Swales</td>
<td>0.6</td>
<td>1.00/12.00</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M-9</td>
<td>Enhanced Filters</td>
<td>N/A</td>
<td>N/A 'C' Soil</td>
<td>X</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
stormwater management
precedent images
1. Existing collections
2. Proposed collections

arboretum and botanical garden
existing arboretum + botanical gardens
inventory opportunities
UNIVERSITY OF MARYLAND
FACILITIES MASTER PLAN

existing arboretum + botanical gardens
existing gardens

natural systems
existing botanical expressions

Existing Garden Names
1. Garden of Reflection + Remembrance
2. West Chapel Garden
3. McKeldin Native Shade Garden
4. Rossborough Gardens
5. Tawes Plaza
6. Garden of Peace + Friendship
7. The Garden Walk at CSPAC
8. Moxley Gardens
9. Comcast Native Meadows
10. Comcast Rain Gardens
11. Greenhouse Native Sun Garden
existing arboretum + botanical gardens

existing arboretum

natural systems

existing botanical expressions

existing campus arboretum
existing arboretum + botanical gardens
future gardens

natural systems
existing botanical expressions
future botanical expressions
existing arboretum + botanical gardens
future corridors

- natural systems
- existing botanical expressions
- future botanical expressions
- proposed arboretum corridors
### FACILITIES MASTER PLAN

**UNIVERSITY OF MARYLAND**

**EXISTING ARBORETUM + BOTANICAL GARDEN**

**FRAMEWORK STRATEGY**

<table>
<thead>
<tr>
<th>GARDE FROM NAME</th>
<th>PROGRAM / FUNCTION</th>
<th>CIRCULATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>McKeldin Mail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Morrill Quad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garden of Reflection and Remembrance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>West Chapel Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Washington Quad</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Arne Arundel Green</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rossborough Gardens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Plant Sciences Courtyard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Garden of Peace and Friendship</td>
<td></td>
<td></td>
</tr>
<tr>
<td>President’s Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPAC Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>McKeldin Shade Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>The M</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stamp Union Green Roof</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mosley Gardens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumberland Hall Greenroof</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hagerstown Woods</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Kim Plaza</td>
<td></td>
<td></td>
</tr>
<tr>
<td>North Gate Park</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Animal Sciences Courtyard</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bioretention Garden at Technology Drive</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rossborough Agricultural Gardens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Research Rain Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paint Branch Drive Rain Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bioretention Swales at Campus Creek</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comcast Center Bioretention Strip</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Comcast Center Native Meadow</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lot PP Rain Gardens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campus Creek Woodland Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anaokota-Paint Branch Wetlands Center</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Paint Branch Parkway Wooded Wetland</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse Sun Garden</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wooded Hilsbeck</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golf Course Bioretention</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Golf Course Pond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Campus Nursery</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wooded Wetland at Anaokota River Trail</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSPAC Retention Pond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vetmed Research Pond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Terrapin Trail Retention Pond</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Apary Site</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DRAFT: BOTANIC GARDEN FRAMEWORK

Jan. 26, 2011
existing arboretum + botanical garden
by topography

- upland botanic gardens
- lowland botanic gardens
existing arboretum + botanical garden

By typology

- natural
- picturesque
- agrarian
- classical
- contemporary
- urban
- botanic gardens
1. south district
2. west district
3. north west district
4. events district
5. north district
6. north east district

landscapes by districts
South District

Period One (0-10 years)
South District

- Period One (0-10 years)
- Period Two (11-20 years)
South District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
West District

Period One (0-10 years)
West District

- Period One (0-10 years)
- Period Two (11-20 years)
districts

West District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Northwest/Events Districts

Period One (0-10 years)
Northwest/Events Districts

- Period One (0-10 years)
- Period Two (11-20 years)
districts

Northwest/Events Districts

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
districts

North District

- Period One (0-10 years)
districts

North District

- Period One (0-10 years)
- Period Two (11-20 years)
districts

North District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
districts

Northeast District

- Period One (0-10 years)
districts

Northeast District

- Period One (0-10 years)
- Period Two (11-20 years)
Northeast District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
districts

Districts Composite

- Period One (0-10 years)
- Period Two (11-20 years)
FACILITIES MASTER PLAN

UNIVERSITY OF MARYLAND

districts

Districts Composite

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
iconic spaces
a significant botanical garden on campus at CSPAC and the President’s house.
iconic spaces

**Botanical Garden**
- President’s Garden
- The University of Maryland Botanic Garden
- Entrances
Iconic spaces

Botanical Garden

- Period One (0-10 years)
iconic spaces

Botanical Garden

- Period One (0-10 years)
- Period Two (11-20 years)
iconic spaces

Anne Arundel Green
Anne Arundel Hall – McKeldin Library
Anne Arundel Green

Task: place creation

District: historic core

Typology: classical

Recommendations:

- Enhance role as ABG collection
- Increase tree canopy
- Reduce lawn
- Theme – mid-Atlantic heirlooms
- Revelatory stormwater management

- Enhance pedestrian circulation

- Enhance role as gathering / event space

- Support passive recreation
iconic spaces

Anne Arundel Green

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

McKeldin Mall - Library
McKeldin Mall - Library

**task:** beautification/enhancement  
**district:** historic core  
**typology:** classical

**Recommendations:**

- enhance role as ABG collection  
  increase tree canopy  
  reduce lawn  
  theme – four-seasons garden

- enhance role as gathering/event space  
  increase paving (pervious)  
  add seating
iconic spaces

McKeldin Mall - Library

- Organizing Axes
- Secondary Axes
iconic spaces

McKeldin Mall - Library

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

Tawes Plaza
iconic spaces

Tawes Plaza – Alternative I

task: place completion
district: historic core
typology: classical

Recommendations:

• enhance role as ABG collection
  increase tree canopy
  reduce lawn
  theme – mid-atlantic native and adapted perennials
  stormwater management (LID)

• enhance role as gathering / event space
  increase shaded seating

• consider axial relationships
iconic spaces

**Tawes Plaza** – Alternative I

- Organizing Axes
- Secondary Axes
Tawes Plaza – Alternative I

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

Tawes Plaza – Alternative II
iconic spaces

Tawes Plaza – Alternative II

- - Organizing Axes
- - Secondary Axes
Tawes Plaza – Alternative II

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

Composite 1
iconic spaces

Composite 1

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

Composite 2
iconic spaces

Composite 2

- Organizing Axes
- Secondary Axes
- Circulation
iconic spaces

Kim Plaza & Stadium Drive
iconic spaces

Kim Plaza & Stadium Drive

task: beautification/enhancement
district: northeast
typology: urban

Recommendations:

• enhance role as ABG collection
  increase tree canopy
  reduce lawn/impervious paving
  theme – riparian, native/adaptive plants
  revelatory stormwater expressions

• enhance role as pedestrian corridor
  increase gathering spaces
  Improve connectivity

• Provide for multi-modal transit
  Improve bike connectivity/parking
iconic spaces

Kim Plaza & Stadium Drive

Organizing Axes

Secondary Axes
iconic spaces

Kim Plaza & Stadium Drive

- Organizing Axes
- Secondary Axes
- Circulation
landscape discussion
III. transportation

1. Transportation Approach
2. Pedestrian Networks
3. Road Hierarchy
4. Transit Routes
5. Purple Line
6. Campus Drive
transportation approach
transportation approach

- An Integrated Transport Strategy
- Develops a fully multi-modal system
- Why does this matter?
  - Choice
  - Future proof / Flexible
  - More opportunity for sustainable transport
an integrated approach

• Integrated transport planning
  All modes of transport
  All users types and demands
  Improving transport facilities
  Planning for growth and change

• ‘Kit of Parts’
  Street and Walkway Typologies
  Bicycle plan
  Parking plan
  Transit plan
Pedestrian Networks
existing pedestrian networks
FACILITIES MASTER PLAN
UNIVERSITY OF MARYLAND
proposed pedestrian networks
Pedestrian Improvement: Actions

- Develop shared streets concept
- A hierarchy of pedestrian spaces
- Improve intersections to reduce conflicts
- Improve safety for pedestrians in parking lots
- Improve pedestrian safety and security on campus
- Widen and improve any shared use paths
  - Use landscaping for traffic calming
  - Use wayfinding elements
  - Create more activity within the pedestrian network
  - Reduce barriers for pedestrians
  - Establish 10-11 foot travel lanes as the preferred lane width
  - Partner with adjacent jurisdictions to ensure streets and roads in the surrounding communities support and encourage walking to campus.
Bicycle Network
existing bicycle networks

No Internal Routes
proposed bicycle networks

External Routes
Bicycle Improvements: Actions

- Install bicycle paths, bicycle lanes, and shared roadway patterns
- Provide bicyclists wayfinding
- Install secure, protected, short and long-term parking for bicycles
- Improve comfort and safety in parking lots for bicyclists.
- Partner with adjacent jurisdictions
- Provide a range of educational and encouragement programs
- Publicize direct, safe and attractive bicycle routes to and from campus.
existing road networks
proposed road networks
Vehicular Improvements: Actions

- Reduce vehicular congestion on campus
- Accommodate bicycles and enhance the pedestrian experience on Campus
- Explore traffic patterns and usage from a whole-system approach
- Consider extending Campus Drive west through Lot 1 and closing or limiting traffic on Campus Drive between Tawes and Anne Arundel
- Investigate closing Stadium Drive between Regents and Paint Drive
- Continue investigating other road restrictions on a case-by-case basis
- Installation of clear signage
- Ensure safe and convenient connections to East Campus development
- Use consistent "wayfinding" signage throughout
- Develop ‘rules of the road’ on campus
- Develop a consistent and ongoing communication
- Collaborate with regional entities
existing parking infrastructure
potential new parking garages
Parking Improvements: Actions

- Locate any new garages on the periphery of the campus
- Remove surface parking from the center of campus
- Utilize selected green areas to support special events parking
- Investigate shuttle services to nearby hotels during high volume visitation events
- Implement existing policies restricting freshmen and sophomore students from having cars on campus
- Identify the funding requirements related to each type of transportation
- Partner with nearby housing developments regarding transportation service arrangements
existing campus circulator

- 35-40 minute headways
- Provides access to significant, peripheral campus destinations
- Split Circulator into two routes
- 20 minute headways (round trip)
- Connect parking lots to internal campus destinations
- Responds to Purple Line & new campus developments & potential new road networks
- 25 minute headways round trip
- Connects to east campus, parking lots
Transit Improvements: Actions

- Encourage the use of transit and carpooling
- Expand occasional parking permits
- Market pre-tax funds and payroll deduction for transit and parking at transit sites
- Provide a “Guaranteed Ride Home” program
- Improve bus shelter provision
- Enhance transit technology
- Reconfigure existing Shuttle UM routes
- Improve intra-campus shuttle
- Work and share data with regional transit providers
- Ensure that the Purple Line alignment and stations encourage use of multimodal transportation.
- Offer pre-tax benefit for parking at park-and-ride facilities.
The Purple Line

Source: MTA, Initial Renderings
Purple Line on Campus Drive: Issues

- **Road Size**
  - Keep existing road right-of-way: 2 Lanes
  - Expand road right-of-way: 3-4 lanes possible

- **Type of Road Closure**
  - Transit Mall
  - All Modes

- **Preventing Modal Conflict / Improving Safety**

- **Preventing Campus Division**

- **Improving Links to East Campus**
Transit Mall Concept

Benefits

▪ Works within Campus Drive’s existing ROW - requires approximately a 60’ ROW

▪ Dedicated transit lanes provide reliable service times for Shuttle-UM and the Purple Line

▪ Eliminates modal conflict between private vehicular traffic and pedestrians/bicyclists/transit on Campus Drive

▪ Provides dedicated bicycle lane

▪ Opportunities for improved pedestrian realm

▪ Decreases overall motorized traffic on Campus Drive

Weaknesses

▪ Requires diverting all private vehicular traffic to other adjacent roads

▪ Road closures can be politically sensitive

▪ Road closure creates additional management/enforcement role

▪ Shared operation of buses and Purple Line with no passing opportunities may generate some delays whilst vehicle load/unload passengers

▪ Limited passing opportunity for emergency vehicles

▪ Creates a potential pedestrian and bicycle conflict adjacent to transit stops
4-Lane, Center Platform Concept

Benefits

- Dedicated Purple Line lane reduces delays and increases journey time reliability for the purple line service;
- Maintains private vehicle access on Campus Drive therefore doesn’t create significant traffic rerouting to adjacent roads;
- Provides possible low-congestion emergency vehicle route in LRT lane,
- Prevents potential modal conflict between LRT and other modes.
- Introduction of a median strip with opportunity for landscaping;
- Provision of dedicated bicycle lanes

Weaknesses

- Requires expanding the existing Campus Drive ROW - requires approximately a 72-75’ ROW;
- No significant benefit to Shuttle-UM service operation along Campus Drive;
- Increases travel distance for pedestrians crossing Campus Drive.
- Likely higher build costs (compared with 2-lane option)
Summary

- A range of layers to this proposed transport system
- A combined integrated transport network will:
  - Reach the widest number of UMD users;
  - Increase choice;
  - Will encourage more sustainable transportation modes
  - Will start progress towards a lower carbon campus
  - Will help position UMD for future transport trends
  - Will have a greater effect than individual improvements
transportation discussion
1. Districts Characteristics
2. Framework Overlays
3. FMP Principles
4. FMP Program

IV. districts
Content:

- Districts Characteristics
- Framework Overlays
- FMP Principles
- FMP Program
Campus has distinct areas with different characteristics

Districts vary in:
- Land use and focus
- Building form and character
- Open space type and character
- Corridor type
- Streetscape quality
- Pedestrian experience
Districts

Districts Characteristics:

Campus Core:

- **USE:** Academic focus
- **HEIGHT:** 3- to 4-story buildings
- **CHARACTER:** Historic core, Morrill Quad, first impression
- **IMAGE:** McKeldin Mall – iconic center
- **OPEN SPACE:** Formal/classical open spaces
Districts

Districts Characteristics:

South:
- **USE**: Residential, dining, and academic
- **HEIGHT**: 3- to 7-story buildings
- **CHARACTER**: Strong E-W pedestrian axis, housing
- **IMAGE**: Somewhat dense
- **OPEN SPACES**: Washington Quad, Mayer Mall
Districts

Districts Characteristics:

Events:

- **USE**: Events, entertainment, athletics
- **HEIGHT**: Large-scale buildings
- **CHARACTER**: Byrd, Stamp Union, Shipley, CSPAC
- **IMAGE**: Pedestrian/bicycle circulation impeded by buildings, fenced fields, and topography
- **OPEN SPACES**: no real distinguishing open space
districts

Districts Characteristics:

Northwest:
- **USE**: Residential, dining, recreation
- **HEIGHT**: 8 to 10-story buildings
- **CHARACTER**: LaPlata Beach, Eppley, student activity
- **IMAGE**: Somewhat disconnected from campus
- **OPEN SPACES**: LaPlata, internal courts
districts

Districts Characteristics:

North:

- **USE**: ICA, recreation, surface parking
- **HEIGHT**: no real datum
- **CHARACTER**: Comcast Arena, athletics
- **IMAGE**: parking, athletics, wetlands and floodplain
- **OPEN SPACES**: Campus Creek and Paint Branch corridors
Districts

Districts Characteristics:

Northeast:
- **USE**: Engineering, Sciences, campus farm
- **HEIGHT**: 3 to 5-story buildings
- **CHARACTER**: “Perceived” as dense
- **IMAGE**: Infill opportunity, streetscape improvements
- **OPEN SPACES**: No distinguishing open space – lack of attractive streetscape
FMP Principles

• Create an Attractive, Coherent, and Pedestrian-friendly Design for Campus

• Emphasize the Importance of Open Spaces

• Encourage the Use of Transportation other than Personal Vehicles

• Achieve Appropriate Development Patterns
FACILITIES MASTER PLAN

UNIVERSITY OF MARYLAND

Land

Use

Growth Pressures

Key

Academic
Housing/Residential Serv.
ICA Facilities (Athletics)
Recreational Facilities
Service
Parking Garages
FMP Program Studies per District

- South
- West
- Events/Northwest
- North
- Northeast
South District

Existing Conditions

Issues & Goals

- Complete E-W axis from Washington Quad to Mayer Mall
- Address Dining service court
- Improve connectivity from Mayer Mall to Dining – frame view of Chapel
- Organize new buildings to frame new open spaces and connections – particularly from Chapel Lawn to Campus Drive
- Physically integrate and connect Architecture and Van Munching to the Campus core
- Encourage a mix of uses and building types, respect sloping topography
## FACILITIES MASTER PLAN

**University of Maryland**

### South Districts

<table>
<thead>
<tr>
<th>Planning Period</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Planning Period 1</strong></td>
<td>Architecture Building Addition</td>
<td>Academic</td>
<td>122,250</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>School of Public Policy Building</td>
<td>Academic</td>
<td>74,800</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>BSOS Phase 1 and SCUB Expansion</td>
<td>Academic</td>
<td>127,000</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Van Munching Hall Addition/Renovation</td>
<td>Academic</td>
<td>15,282</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Visual Arts and Cultures</td>
<td>Academic</td>
<td>112,300</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Replacement Housing (463 Beds) and SCUB Expansion</td>
<td>Auxiliary</td>
<td>154,085</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>South Campus Recreation Building</td>
<td>Auxiliary</td>
<td>68,975 (90,000 +)</td>
<td>3+</td>
</tr>
<tr>
<td><strong>Planning Period 2</strong></td>
<td>BSOS Phase 2 (Displace SCUB?)</td>
<td>Academic</td>
<td>120,000</td>
<td>5</td>
</tr>
</tbody>
</table>
districts

South District

- Period One A (0-10 years)
districts

South District

- Period One B (0-10 years)
districts

South District

- Period One (0-10 years)
- Period Two (11-20 years)
districts

South District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
South District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
South District

Conceptual Site Plan
South District
Conceptual Site Plan
West District

Existing Conditions
Issues & Goals

- Improve pedestrian safety and connectivity from/through parking to Campus Core
- Address vehicular congestion and conflicts within Lot 1
- Improve gateway image
- Respect organizing axes from McKeldin Mall, to the President’s House/Golf Course, and the N-S axis to Stadium Drive circle
- Establish a structure for logical, organized future growth that builds upon the framework overlays
## West

<table>
<thead>
<tr>
<th>Planning Period 1</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Benjamin Building Addition - Phase 1</td>
<td>Academic</td>
<td>85,000</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>Campus Dr Parking Garage (1600 sp)</td>
<td>Auxiliary</td>
<td>560,000</td>
<td>6 (5-Story &quot;Read&quot;)</td>
</tr>
</tbody>
</table>

FMP Program – DRAFT 03-17-11
West District

Period One (0-10 years)
districts

West District

- Period One (0-10 years)
- Period Two (11-20 years)
West District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
West District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
West District

Conceptual Site Plan
FACILITIES MASTER PLAN
UNIVERSITY OF MARYLAND

Events / Northwest Districts

Existing Conditions
Issues & Goals

- Improve pedestrian/bicycle connectivity between ICA fields and service areas to Campus Core
- Improve pedestrian/bicycle experience along Fieldhouse Drive to Northeast
- Enable connections to Campus Creek and to proposed trails
- Improve streetscape image; address service & loading at Cole and Stamp along Stadium Drive
- Enhance gateway image
- Establish a framework for new buildings as ICA relocates to North
- Support potential residential growth
### Events Project Building

<table>
<thead>
<tr>
<th>Planning Period 1</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Byrd Stadium Expansion (Phase 2)</td>
<td>Auxiliary</td>
<td>7,500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gossett Football Team House Addition</td>
<td>Auxiliary</td>
<td>75,000</td>
<td>3 (5-Story &quot;Read&quot;)</td>
</tr>
<tr>
<td></td>
<td>Indoor Practice Facility</td>
<td>Auxiliary</td>
<td>42,100</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Varsity Team House</td>
<td>Auxiliary</td>
<td>16,900</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shipley Field House Upgrades</td>
<td>Auxiliary</td>
<td>515</td>
<td></td>
</tr>
</tbody>
</table>

### Northwest Project Building

<table>
<thead>
<tr>
<th>Planning Period 1</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>School of Public Health Building Addition /Conversion -II</td>
<td>Academic</td>
<td>27,299</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Undergraduate Housing (515 Beds) with Resident Facility Office</td>
<td>Auxiliary</td>
<td>339,900</td>
<td>7 - 8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Period 2</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New IT Building</td>
<td>Acad Support</td>
<td>100,000</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>North Campus Parking Garage (1600 sp)</td>
<td>Auxiliary</td>
<td>560,000</td>
<td>Not shown</td>
</tr>
<tr>
<td></td>
<td>North Campus Parking Garage ALT (800-850 sp)</td>
<td>Auxiliary</td>
<td>280,000</td>
<td>4 + roof rec.</td>
</tr>
<tr>
<td></td>
<td>Replacement Housing (650 Beds)</td>
<td>Auxiliary</td>
<td>240,300</td>
<td>7 - 8</td>
</tr>
</tbody>
</table>
Northwest/Events Districts

- Period One (0-10 years)
Northwest/Events Districts

- **Period One (0-10 years)**
- **Period Two (10-20 years)**
Northwest/Events Districts

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Northwest/Events Districts

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Northwest/Events Districts

Conceptual Site Plan
North District

Existing Conditions

Issues & Goals

- Establish an athletics- and recreation-oriented district
- Introduce a strong N-S open space as a promenade and organizing element for new ICA facilities
- Improve gateway image along Paint Branch Drive
- Establish safe pedestrian and bicycle connections along Paint Branch Drive and from parking to Northeast and Northwest
- Celebrate wetlands and natural environmental systems
FMP Program – DRAFT 03-17-11

<table>
<thead>
<tr>
<th>North</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planning Period 1</td>
<td>Shuttle UM Facility</td>
<td>Acad Support</td>
<td>10,075</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Paint Branch Parking Garage (1600 sp)</td>
<td>Auxiliary</td>
<td>560,000</td>
<td>6 (5-Story &quot;Read&quot;)</td>
</tr>
<tr>
<td>Planning Period 2</td>
<td>Environmental Service Facility</td>
<td>Acad Support</td>
<td>10,100</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Comcast Center Expansion</td>
<td>Auxiliary</td>
<td>7,020</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Field Hockey/Lacrosse Complex</td>
<td>Auxiliary</td>
<td>5,800</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Baseball Stadium</td>
<td>Auxiliary</td>
<td>11,700</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Basketball Practice Facility</td>
<td>Auxiliary</td>
<td>22,500</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Gymnastics Practice Facility</td>
<td>Auxiliary</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Soccer Stadium</td>
<td>Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Track Stadium</td>
<td>Auxiliary</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Robert E. Taylor Stadium Expansion</td>
<td>Auxiliary</td>
<td>2,640</td>
<td></td>
</tr>
</tbody>
</table>
districts

North District

- Period One (0-10 years)
Facilities Master Plan
University of Maryland

**Districts**

**North District**

- Period One (0-10 years)
- Period Two (11-20 years)
North District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
North District

- **Period One (0-10 years)**
- **Period Two (11-20 years)**
- **Beyond (20+ years)**

*Facilities Master Plan, University of Maryland*
**Northeast District**

**Existing Conditions**

**Issues & Goals**

- Respect previous organizing axes and 9-square grid
- Build upon the E-W axis from the Paint Branch trail along Stadium Drive as a multi-modal and safe “complete street”
- Transform the streetscape image of Regents Drive
- Use infill as a strategy to support growth needs and provide definition to streets, blocks, and open spaces
## Facilities Master Plan

### Northeast

<table>
<thead>
<tr>
<th>Planning Period 1</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nutrition and Food Sciences Building</td>
<td>Academic</td>
<td>40,000</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Animal Science Consolidated Activities Building</td>
<td>Academic</td>
<td>18,200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Bioscience Research Support Facility Phase 1</td>
<td>Academic</td>
<td>118,100</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Bioscience Research Support Facility Phase 2</td>
<td>Academic</td>
<td>57,700</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Center for Technology and Distance Learning</td>
<td>Academic</td>
<td>19,850</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Computer Science &amp; Engineering Building</td>
<td>Academic</td>
<td>182,000</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td>Replacement Barns</td>
<td>Academic</td>
<td>40,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Sciences Complex - Phase 1</td>
<td>Academic</td>
<td>160,064</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Physical Sciences Complex - Phase 2</td>
<td>Academic</td>
<td>106,300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Fishell Institute of Biomedical Devices</td>
<td>Academic</td>
<td>145,300</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Addition to Kim Engineering Building</td>
<td>Academic</td>
<td>22,000</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Biological Science Research Building - Phase 2</td>
<td>Academic</td>
<td>125,600</td>
<td>3 (Events)</td>
</tr>
<tr>
<td></td>
<td>Physical Science Complex - Phase 3</td>
<td>Academic</td>
<td>102,400</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Planning Period 2</th>
<th>Project</th>
<th>Building Type</th>
<th>GSF</th>
<th>Floors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>FMP Program – DRAFT 03-17-11</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Northeast District

Period One (0-10 years)
districts

Northeast District

- Period One (0-10 years)
- Period Two (11-20 years)
districts

Northeast District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Northeast District

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Districts Composite

Period One (0-10 years)
districts

Districts Composite

- Period One (0-10 years)
- Period Two (11-20 years)
districts

Districts Composite

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Districts

Districts Composite

- Period One (0-10 years)
- Period Two (11-20 years)
- Beyond (20+ years)
Discussion

Website: www.facilities.umd.edu/MasterPlan

2nd Draft: May 9th

IV. next steps