Minnesota State University Moorhead
MASTER FACILITIES PLAN 2010

10.06.10
Agenda

1. Minnesota State University Moorhead
   • Mission and Vision
   • History, Region, and Programs
   • Strategic goals
   • Partnerships
   • Master Planning Process and Themes

2. Existing Site Conditions

3. Existing Building Conditions

4. Proposed Framework for Site Development

5. Proposed Framework for Building Development

6. Questions and Discussion
Minnesota State University Moorhead is a caring community promising all students the opportunity to discover their passions, the rigor to develop intellectually and the versatility to shape a changing world.
Minnesota State University Moorhead will build upon a solid foundation of high quality teaching and learning as it commits to a future as the premiere liberal arts and sciences-based university in the region.
Minnesota State University Moorhead

Moorhead Normal School 1887

Moorhead State Teachers College 1921

Moorhead State College 1957

Moorhead State University 1975

Minnesota State University Moorhead 2000

Minnesota State University Moorhead Master Facilities Plan
Location/Demographics

- Located in the heard of the Red River Valley in West Central Minnesota
- Largest educational, medical, retail, distribution, media and manufacturing center between the Twin Cities and Seattle (180,000)
- Unemployment is approximately 3.7%
- The number of new Americans from India, China, Bosnia and various African nations is steadily increasing
Campus Aerial View
Academic Programs

- 74 Majors, 96 Emphases
- 5 undergraduate certificates
- 16 pre-professional programs
- 13 graduate programs, 26 graduate majors
- 5 graduate certificates, 2 graduate specialists
- 1 applied doctorate
Strategic Goals

- Offer competitive, high quality, rigorous academic programs and services that support state and regional economies.

- Increase enrollment and student success including under-represented students. The number of enrolled students should reach 8,000 within the next five years with continued improvements in student success indicators.

- Strengthen our relationships with key stakeholders, including alumni, other donors, neighborhood groups, and the business community.

- Continue to develop infrastructures that are sustainable through difficult economic times, as well as consistent with the caring community that is MSUM.
Partnerships

- Twin City colleges (North Hennepin CC, Hennepin TC, Anoka Ramsey CC, Minneapolis CTC, Century CTC)

- MN State CTC (Moorhead, Wadena, Detroit Lakes, Fergus Falls) and Northland CC

- Tri-College (Concordia, NDSU)
Master Planning Process

- Broad Representation on Advisory Committee
- Hands-on Workshops
- Open Forums
- Master Plan Website
Themes

- Stewardship
- Safety
- Sustainability
- Appearance and Attractiveness
Existing Site Conditions

S.1 Historic Neighborhood Entry to Campus
S.2 Pedestrian Safety Concerns
S.3 Campus Edges Along West Parking Areas
S.4 North and South Campus Edges
S.5 Campus Edges at Athletic Fields
S.6 Campus Edge along 20th Street
S.7 Main Quadrangle Entry Gate and Seating Area
S.8 Central Quadrangle Area
S.9 Seating Areas Adjacent to Library ‘Porch’
S.10 Residential Zone Open Space
S.11 Underutilized East Parking Areas
S.12 Multi Purpose Athletic Fields
S.13 Stadium Field and Lighting
S.14 Extension of 9th Avenue South
S.15 Courtyard between King Hall/Frick Hall and Center for the Arts

Minnesota State University Moorhead
Master Facilities Plan
Existing Site Conditions

- Historic Comstock Neighborhood on West; athletic fields at East; both lack gateway markers
- North-South street traffic moves rapidly; many street crossings lack adequate markers to slow vehicles down

Entries and Crossings
Existing Site Conditions

- Typically mown lawn with mature trees (including ash)
- Varied treatments; no signature
- Berms with ornamental trees at west parking
- Unscreened service docks

Campus Edges
Existing Site Conditions

Quadrangles
• Stately timeless space
• Beautiful trees
• Worn and inconsistent paving and site furnishings

• Residential zone lacks defined social space, courtyards and landscape
**Regional Science Center**
Valuable research and outreach site
- Substandard paving at access road limits use
- Accessibility issues
- Recently added tower for data connection
Existing Building Conditions

Minnesota State University Moorhead Master Facilities Plan

- B.1 Newman Center
- B.2 Ropurposed Houses
- B.3 Center for Business
- B.4 Bridges Hall
- B.5 MacLean Hall
- B.6 Frick Hall
- B.7 King Hall
- B.8 Owens Hall
- B.9 Grier Hall
- B.10 Weld Hall
- B.11 Center for the Arts (1966)
- B.12 Center for the Arts (1977)
- B.13 Hendrix Health Center
- B.14 Livingston Lord Library
- B.15 Comstock Memorial Union
- B.16 Murray Commons
- B.17 Nemzek Hall
- R Residential Buildings
Existing Building Conditions

Buildings older than 35 years
High FCI; typically need major renewal, more than can be done through R&R projects:
• Aging, inefficient M/E systems don’t provide for comfort or quality interior environment
• Access issues
• Inefficient windows, envelope
• Fire/Life safety (e.g. sprinklers)
• Aging finishes, built-ins

Weld, Library, Frick, Grier, Bridges, King
Existing Building Conditions

Buildings from 70’s where *form follows function* no longer
Program changes or growth:

- Spaces don’t support current program needs
- Spaces/buildings smaller than is ideal
- Furniture doesn’t support current teaching & learning

CA, Owens, Murray, Nemzek, Resid. Halls
Existing Building Conditions

Like-new/New Structures
Remodeling has dealt with most backlog. Up-to-date environments

- Variety of teaching/learning zones for programs
- Efficient, effective MEP
- Attractive, appealing

Hagen, Lommen, Science, Wellness, MacLean, Neuemeyer
Existing Building Conditions

Residence Halls

- Student Housing Plan completed by Alexander & Associates, and Angelini Architects; Pre-designs by ESG Architects

- Renovation for environments/infrastructure and energy efficiency needed to: Dahl, Snarr West, East and South, and Nelson Halls

- Holmquist Hall also has significant deferred maintenance, but should be further analyzed for cost/benefit of renovation
Proposed Framework for Site Development

A  
A.1  Historic Neighborhood Gateway and Park  
A.2  Main West Campus Gateway  
A.3  North and South Neighborhood Gateways  
A.4  Main East Campus Gateway  
A.5  Proposed East Campus Entry Gateway Pending Land Acquisition  

B  
B.1  New Three-way Stop at 7th Ave S and 10th St (Main West Campus Entry)  
B.2  New Crossing Marker at Pedestrian Entry Gates on 11th St  
B.3  New Four-way Stop at 9th Ave S and 14th St  
B.4  New Crossing Marker at Pedestrian Crossings on 14th St and 17th St  
B.5  New Three-way Stop at 6th Ave S and 11th St  

Minnesota State University Moorhead  
Master Facilities Plan
Proposed Framework for Site Development

C  
C.1 Neighborhood Boulevard Development
C.2 Campus Edge Development Bordering Existing West Parking Lots
C.3 Campus Edge Development Bordering North and South Neighborhoods
C.4 Campus Edge Development Bordering Athletic Fields
C.5 Campus Edge Development Along 20th St

D  
D.1 Improved Social Space and Art at Entry Gate
D.2 New Social Space and Art in the Central Quadrangle Area
D.3 Improved Social Space Adjacent the Library "Porch"
D.4 New Social Space and Art at Comstock/Kise
D.5 New Social Space and Art at 14th St Crossing
D.6 New Social Space and Art at Residence Halls
D.7 New Social Space and Art at 17th St Athletics Crossing

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Site Development

Minnesota State University Moorhead
Master Facilities Plan

E  Campus Shuttle Route
  E.1-E.7 Possible Shuttle Stops

F  Campus ‘River’ Landscape Concept
  F.1 The ‘River’ Concept in the Central Quadrangle
  F.2 The ‘River’ Concept at Ballard Hall
  F.3 The ‘River’ Concept in the Residential Zone
  F.4 The ‘River’ Concept Approaching Nemzek Hall

G  Campus Open Space/Recreation
  G.1 Residential Courtyard
  G.2 Residential Open Space Quad
  G.3 Intramural Athletic Field and Event Lighting
  G.4 Courtyard Upgrade between Center for Arts and MacLean/Frick
  G.5 Temporary Performance Stage
  G.6 New Artificial Turf at Intramural/Athletic Fields

H  Consolidated Parking Areas
  H.1 Removal of Houses and Combining of Parking Lots
Proposed Framework for Site Development

Gateways and Entries

deciduous shrubs

coniferous trees
dec. ornamental trees
ornamental grasses
flowering perennials
existing walk to remain
steel edging

existing deciduous trees to remain and proposed deciduous overstory trees
flowering perennials

gateway planting
turf
walk
boulevard
roadway

A

Campus Gateway Elements

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Site Development

Mark pedestrian crossings to provide safer crossing points and to reinforce desired pedestrian circulation patterns.

Incorporate traffic calming features at intersections and pedestrian crosswalks such as: special paving and markings, stop signs and signage.
Proposed Framework for Site Development

Improve the varied campus edges
- Add low native plantings to screen cars and parking lot, and decrease the maintenance requirements.
- Screen service areas facing the residential neighborhoods with plantings where possible.
- Give consideration to year round color and form.
Proposed Framework for Site Development

Campus Edge Development

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Site Development

New Social Space and Art in the Central Quadrangle Area
At entry, at crossroads, and at Library porch, new plantings, paving, furniture, and lighting are suggested to define social gathering spaces

- Incorporate Art, furniture or lighting.
- Replace worn concrete pavement;
- Provide special paving at select locations to enhance campus identity and enhance wayfinding.

Social Node and Art Locations
Proposed Framework for Site Development

Social Node and Art Locations
Proposed Framework for Site Development

Campus ‘River’ Landscape Concept
- The meandering linear spine that connects the academic, student service, residential, and athletic zones of the campus. This concept will establish a curved planting form, color, and texture. The curved form can be designed independent of the path systems, allowing for phased implementation.

Campus ‘River’ Landscape Concept

Interior - Raingarden

Interior - Open Lawn

Interior - Berm

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Site Development

Campus ‘River’ Landscape Concept

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Site Development

Residential Open Space Quad
The residential zone of campus will benefit from an open quadrangle to support casual recreation – Frisbee, football, social gatherings on the lawn. This lawn will be shaped by the placement of a new residential building.
Proposed Framework for Site Development

**Consolidated Parking Areas**
The west parking areas are currently cluttered with housing islands that interrupt the flow of traffic in and around the parking areas. Removal of these houses will assist in decreasing the maintenance, and assist in improving traffic flow.
Site Development Short Term

<table>
<thead>
<tr>
<th>0-4 Years</th>
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<tbody>
<tr>
<td>A.2</td>
<td>Main West Campus Entry Gateway</td>
</tr>
<tr>
<td>B.1</td>
<td>Pedestrian Safety Improvements at 7th Ave/10th St</td>
</tr>
<tr>
<td>B.2</td>
<td>Pedestrian Safety Improvements at 11th and Campus Gateway</td>
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<tr>
<td>B.3</td>
<td>Pedestrian Safety Improvements at 9th Ave and 14th St</td>
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<tr>
<td>B.4</td>
<td>Pedestrian Safety Improvements - Markers at Campus Crossings</td>
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<tr>
<td>B.5</td>
<td>Pedestrian Safety Improvements at 6th Ave and 11th St</td>
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<tr>
<td>C.3-C.5</td>
<td>Campus Edge Development - N, S, E</td>
</tr>
<tr>
<td>D.</td>
<td>Social Nodes and Art</td>
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<tr>
<td>F.</td>
<td>Campus 'River' Landscape Improvements</td>
</tr>
<tr>
<td>G.3</td>
<td>Intramural Athletic Field and Event Lighting</td>
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<tr>
<td>G.4a</td>
<td>Courtyard Upgrade between Center for Arts and MacLean/Frick/King</td>
</tr>
</tbody>
</table>
5-9 Years

A.1 Historic Neighborhood Gateway and Park
A.3 North and South Neighborhood Gateways
A.4 Main East Campus Entry Gateway
G.1 Residential Courtyard
G.2 Residential Zone Recreational Open Space
H.1,H.2 Parking Lot Consolidation
C.3-C.5 Campus Edge Development - N, S, E
G.4a Courtyard Upgrade between Center for Arts and MacLean/Frick/King
Carbon Neutral Demonstration House
Site Development Long Term

10+ Years
A.5 Proposed East Campus Entry Gateway Pending Land Acquisition
C.1 Neighborhood Boulevard Development
C.2 Campus Edge Development Bordering Existing West Parking Lots
E.1-E.7 Campus Shuttle Route
G.4b Repair and Upgrade Court Yard following demolition of Grier Hall
G.5 Temporary Performance Stage
G.6 New Artificial Turf at Intramural/Athletic Fields
H.1, H.2 Parking Lot Consolidation

Minnesota State University Moorhead
Master Facilities Plan
Building Development Short Term

<table>
<thead>
<tr>
<th>Area</th>
<th>Description</th>
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<tbody>
<tr>
<td>L.8</td>
<td>Frick/MacLean Hall Remodel</td>
</tr>
<tr>
<td>L.3</td>
<td>Livingston Lord Library Remodel</td>
</tr>
<tr>
<td>R.1</td>
<td>Dahl Residence Hall Remodel</td>
</tr>
<tr>
<td>L.1, K.10</td>
<td>Weld Hall/Glasrud Auditorium Remodel - Planning/Design</td>
</tr>
<tr>
<td>L.2</td>
<td>Center for the Arts Remodel - Planning/Design</td>
</tr>
<tr>
<td>K.1</td>
<td>Acquisition of Newman Center with Minor Remodeling for a Welcome Center</td>
</tr>
<tr>
<td>R.2</td>
<td>Snarr Residence Hall Remodel - Phase I</td>
</tr>
</tbody>
</table>
Proposed Framework for Building Development

LL Library/Information Technology

Minnesota State University Moorhead
Master Facilities Plan
Proposed Framework for Building Development

Multi-phased remodeling:

- Renovations for expanded Academic Support Hub
  - Tutoring and supplemental instruction
  - Veteran’s Affairs
  - Career Services and Disability Services.
  - University College
- Food Service Relocation and Renovation
  - Expanded seating
- Update Bookstore, Remodel to add the Post Office.

MacLean / Frick Halls First Floor

Frick/MacLean Remodel
Proposed Framework for Building Development

• Fully renovate student rooms, bathrooms and lounges in upper floors.
• Renovate facility to accommodate the new Fine Arts Living-Learning Community.
• Future: Introduce shared workspace, practice rooms, offices, performance space, etc. in lower.

Dahl Hall Remodel
Proposed Framework for Building Development

Snarr West - Proposed Commons Plan

Snarr S, W, E Residence Hall Remodels

Minnesota State University Moorhead Master Facilities Plan
Building Development - Mid Term

L.1 Weld Hall/Glasrud Auditorium Remodel
L.2 Center for the Arts Remodel - Phase I
L.5 Nemzek Hall Planning/Design/Remodel
L.2 Center for the Arts Remodel/Addition - Phase II
J.1 New West Campus Gateway Public-Private Partnership
    Apartments (North)
R.3 Nelson Residence Hall Remodel
K.1 Addition to Newman Center to Develop New
    Welcome/Admissions/Alumni/Career Center
L.4 Comstock Memorial Union Remodel
R.2 Snarr Residence Hall Remodel - Phase II
L.9 King Hall Remodel
Proposed Framework for Building Development

**Weld Hall/Glasrud Auditorium Remodel**
This historic building needs attention throughout to halt its deterioration and improve function.
- Remodel Glasrud Auditorium for large group and musical performances.
- Small addition for a working stage, backstage, and elevator/stair access

**Throughout:**
- Tuckpointing, replace windows, roof,
- New fire sprinklers, other fire code
- New HVAC equipment and distribution,
- Renewed plumbing piping
- New Electrical, upgrade technology
- Finishes

**Weld Hall / Glasrud Auditorium Remodel**

*Minnesota State University Moorhead Master Facilities Plan*
Proposed Framework for Building Development

Two-phase remodel and small additions to Center for Arts needed to address significant growth and changes in programs since its construction 45 and 31 years ago.

- Improve function of specialized studio/lab and classroom areas
- Address renewal needs of campus performance spaces
- Provide renewal of systems for efficiency and health
- Refresh interior image

Throughout Phases I & II:
- Replace HVAC, humidity control
- Renew electrical
- Upgrade technology, finishes
- Access and code issues
- Upgrade theaters

- Small additions in Phase II

Center for the Arts Remodel
Proposed Framework for Building Development

Throughout:

- Renewed HVAC, electrical, energy management, plumbing
- Complete finishes, locker room renewals
- Flooring renewal for safety, at Fieldhouse and North Gym
- Wayfinding
- More daylight

First Level Plan

Remodel Nemzek for improved safety, image, function and condition. Integrate casual study space, increase openness and visibility

Nemznek Hall Remodel
Proposed Framework for Building Development

Bridges Hall Remodeling to improve quality and flexibility of instructional space, and to reduce backlog of infrastructure needs. May occur in multiple phases.

Throughout:
- Envelope improvements
- New HVAC, renewed plumbing, renewed electrical
- Finishes
- Complete upgrades to technology

Bridges Hall Remodel
Proposed Framework for Building Development

King Hall Remodel

• Follow up the recent partial mechanical and finishes project
• Replace/upgrade aged mechanical equipment for efficiency and comfort
• Renew electrical equipment
• Renew finishes and built-ins to enhance flexibility and quality for hands-on studio and lab uses

King Hall 2nd Level

King Hall Remodel
Building Development Long Term

10-30+ Years (in alphabetical order)

G.4 Demolish Grier Hall
H.1,H.2 Removal of Houses and Combining of Parking Lots
J.2 New East Campus Gateway Residential Building and Demolition of Holmquist Hall
K.2 New Academic Addition to Center for Business
K.3 New Parking Ramp for 500 Cars
K.4 New Library / CMU Student Services Link
K.5 New Wellness Center Addition
K.6 New Seasonal 'Dome' at Nemzek
K.7 New Nemzek Competition Gym Addition
K.8 New Center for the Arts Addition
L.6 Bridges Hall Remodel
L.7 Murray Hall Remodel and Repurpose
L.9 King Hall Remodel

Minnesota State University Moorhead
Master Facilities Plan
Sustainability/Energy Efficiency

- **Continue focus on more efficient energy use**
  
  *Progress: with FY08 as baseline, reduced electrical use 13% in FY10, reduced gas by 3.5% in FY09*

- Continue replacement/upgrades of mechanical infrastructure with more efficient equipment and systems, e.g., building control systems, variable frequency drives, high efficiency motors, energy recovery units, digital control systems.

- Expand central Building Automation System to include control of *all* mechanical equipment

- Revise steam distribution system to eliminate bottlenecks per 2007 study – allows low pressure steam for energy efficiency and ease of maintenance

- Upgrade lighting technologies.

- Landscape with native plantings.

- Emphasize healthy materials and design to create high quality indoor environments.
Summary

- Stewardship – *protect and enhance the historic fabric of the campus*
- Safety – *environments that contribute to health and safety*
- Sustainability – *improve energy efficiency of existing infrastructure; renew structures to endure another 40 years*
- Appearance and Attractiveness – *develop places where students want to be*
Questions?

Further Discussion
Thank You!
Minnesota State University Moorhead
MASTER FACILITIES PLAN 2010

10.06.10