PARKING AND TRANSPORTATION MASTER PLAN

Faculty Senate – February 17, 2016
Goals for this Effort.....

**Goal 1:** Enhance mobility for MSU’s employees, faculty, students and visitors.

**Goal 2:** Protect existing parking facility investments, and identify future parking needs and locations based on projected demands.

**Goal 3:** Improve multi-modal connectivity between the campus and off-campus destinations.

**Goal 4:** Reduce the number of single occupant vehicles on and around campus.
Schedule

MSU Parking and Transportation Master Plan

<table>
<thead>
<tr>
<th>Work Tasks</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
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<td>1.0 Project Management and Admin</td>
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<td>2.0 Identify Goals and Objectives</td>
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<td>3.0 Existing Conditions Assessment</td>
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<td>4.0 Peer Review</td>
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<td>5.0 Future Conditions Assessment</td>
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<td>6.0 Develop Recommendations</td>
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<td>7.0 Develop Implementation Strategy</td>
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<td>8.0 Report Preparation</td>
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<td>9.0 Public Process Outreach and Meetings</td>
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Month (Year 2015-2016)

- Technical
- PT Meeting
- Draft & Final PTMP
- MSU President’s Executive Council, Faculty Senate, UFPB, and ASMSU Outreach Events

Current Time
PARKING
Existing Average Parking Utilization

Map Legend
- MSU Boundary
- Parking Utilization Rate:
  - 0% - 49%
  - 50% - 74%
  - 75% - 89%
  - 90% - 100%

Parking utilization rate represents an average percent of available parking occupied between 8am and 5pm.

Source: City of Bozeman, Montana State University, RPA
Existing Peak Parking Utilization

Map Legend

- **MSU Boundary**
- **Parking Utilization Rate**
  - 0% - 49%
  - 50% - 74%
  - 75% - 89%
  - 90% - 100%

Parking utilization rate represents the percent of available parking occupied during the peak hour.

Source: City of Bozeman, Montana State University, RPA
Parking Comparison

<table>
<thead>
<tr>
<th></th>
<th>Montana State</th>
<th>Colorado State</th>
<th>Washington State</th>
<th>New Mexico State</th>
<th>Univ. of Idaho</th>
<th>Univ. of Montana</th>
<th>Weber State</th>
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<tbody>
<tr>
<td>Students</td>
<td>15,688</td>
<td>27,217</td>
<td>19,756</td>
<td>15,829</td>
<td>10,474</td>
<td>13,358</td>
<td>25,955</td>
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<tr>
<td>Faculty/Staff</td>
<td>3,087</td>
<td>6,209</td>
<td>3,481</td>
<td>3,938</td>
<td>2,461</td>
<td>2,540</td>
<td>2,554</td>
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<tr>
<td>Parking Spaces</td>
<td>6,127</td>
<td>13,103</td>
<td>6,149</td>
<td>11,499</td>
<td>5,737</td>
<td>3,131</td>
<td>7,100</td>
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<tr>
<td>Parking Ratio</td>
<td>0.39</td>
<td>0.48</td>
<td>0.31</td>
<td>0.73</td>
<td>0.55</td>
<td>0.24</td>
<td>0.27</td>
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<tr>
<td>(per Student)</td>
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<tr>
<td>Parking Ratio</td>
<td>0.33</td>
<td>0.39</td>
<td>0.25</td>
<td>0.58</td>
<td>0.44</td>
<td>0.20</td>
<td>0.25</td>
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<tr>
<td>(per Student, Faculty &amp; Staff)</td>
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NAIC parking will result in 150 additional spaces
TRANSPORTATION
**Existing Traffic Volumes**

**Map Legend**
- MSU Boundary
- Unsignalized Intersection
- Signalized Intersection

1,200 Average Annual Daily Traffic

**Turning Movement Counts**
- AM Peak Hour | PM Peak Hour

**Source:** City of Bozeman, Montana State University, Montana Department of Transportation, RPA

**NOTE:** Existing traffic data were collected October 20, 2015

### Existing Traffic Volumes

<table>
<thead>
<tr>
<th>ID</th>
<th>Intersection</th>
<th>AM</th>
<th>PM</th>
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<tbody>
<tr>
<td>1</td>
<td>11th Avenue / College Street</td>
<td>62</td>
<td>86</td>
</tr>
<tr>
<td>2</td>
<td>8th Avenue / College Street</td>
<td>57</td>
<td>92</td>
</tr>
<tr>
<td>3</td>
<td>11th Avenue / Grant Street</td>
<td>455</td>
<td>517</td>
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<tr>
<td>4</td>
<td>7th Avenue / Grant Street</td>
<td>272</td>
<td>231</td>
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<tr>
<td>5</td>
<td>11th Avenue / Lincoln Street</td>
<td>229</td>
<td>232</td>
</tr>
<tr>
<td>6</td>
<td>11th Avenue / Kagy Boulevard</td>
<td>73</td>
<td>82</td>
</tr>
<tr>
<td>7</td>
<td>7th Avenue / Kagy Boulevard</td>
<td>39</td>
<td>48</td>
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</tbody>
</table>
AM Entering Volumes

Map Legend

- MSU Boundary

Source: City of Bozeman, Montana State University, RPA

Denotes % entering AM volume
Loading and Service Locations

Map Legend
- MSU Boundary

Area Accessible by:
- Green: Shared Walkway
- Purple: Street
- Blue: Parking Lot

Source: City of Bozeman, Montana State University, RPA
Existing Bicycle Facilities

Map Legend
- MSU Boundary
- Natural Surface Trails
- Shared Use Paths
- Signed Bike Routes
- Bike Lanes

Bicycle Racks

<table>
<thead>
<tr>
<th>Commuter</th>
<th>Residential</th>
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<tbody>
<tr>
<td>1 - 20</td>
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<tr>
<td>21 - 40</td>
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<td>41 - 60</td>
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<td>61 - 80</td>
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<td>81 - 100</td>
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<tr>
<td>100+</td>
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Source: City of Bozeman, Montana State University, RPA, ALTA
Pedestrian Analysis

Map Legend
- MSU Boundary
- Desire Line

Crosswalk Traffic Control
- Rectangular Rapid Flashing Beacon
- Stop Sign
- Traffic Signal
- Yield Control

Source: City of Bozeman, Montana State University, RPA
Growth Potential


- AAGR = 0.61%
- AAGR = 3.59%

Year 2025 Low Growth Scenario: 16,671
Year 2025 High Growth Scenario: 22,326
Next Steps

• Establish future conditions
• Develop recommendations
• Develop implementation strategy
• Develop PTMP document

• Questions, concerns and/or comments:

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candace.mastel@montana.edu