SPU University Center

Transportation Analysis

10/27/09
Study Objectives

• Assess impacts:
  • Traffic
  • Parking
  • Pedestrian
• Mitigation
• Relationship to the Approved Master Plan
Scope of Study
Per direction from DPD

- Study Intersections
- Scenarios
- Trip generation
- Trip distribution
PM Peak Hour

• PM Peak Hour:
  • Weekday 4:30 – 5:30 PM
• Trip Generation: 22 New Trips
• Trip Distribution: As assumed in EIS
• Result: No change in intersection operations
Trip Distribution

Project Site

- 61% →
- 6% ↗
- 22% ↓
- 4% ↓
- 7% ←
# Intersection Operations

## PM Peak Hour

<table>
<thead>
<tr>
<th>Intersection</th>
<th>2011 Baseline</th>
<th>2011 With-Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>3rd Ave W / W Nickerson</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>3rd Ave W / W Bertona St.</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>3rd Ave W / W Dravus Street (s)</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>Queen Anne Ave W / W Nickerson</td>
<td>F</td>
<td>F</td>
</tr>
<tr>
<td>Cremona St / W Nickerson</td>
<td>A</td>
<td>A</td>
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</tbody>
</table>
Event Scenarios

- **Events**: 95% seats filled
  - “High Activity” – Half coming from off campus, other half already on campus (resident students, staff)
  - “Maximum Activity” – 90% coming from off campus, 10% already on campus
Trip Generation

- Event driven: high influx before/after performance
- High Activity Scenario:
  - 194 in / 11 out
  - 194 out / 11 in
  - Park 205 vehicles
- Maximum Activity Scenario:
  - 369 in / 20 out
  - 369 out / 20 in
  - Park 389 vehicles
Parking Availability

- Project Site: 77%
- 52%
- 70%
Parking Assignment

High Activity Event (205 cars)

Maximum Activity Event (389 cars)
<table>
<thead>
<tr>
<th>Intersection</th>
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<th>High Activity</th>
<th>Max Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pre-event</td>
<td>Post-event</td>
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<tr>
<td></td>
<td></td>
<td>Pre-event</td>
<td>Post-event</td>
</tr>
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<td>3rd Ave W/W Nickerson</td>
<td>B</td>
<td>B</td>
<td>B</td>
</tr>
<tr>
<td>3rd Ave W/W Bertona St.</td>
<td>E</td>
<td>D</td>
<td>C</td>
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<tr>
<td></td>
<td></td>
<td>E</td>
<td>C</td>
</tr>
<tr>
<td>3rd Ave W/W Dravus Street (South)</td>
<td>B</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>Queen Anne Ave W / W Nickerson</td>
<td>F</td>
<td>D</td>
<td>C</td>
</tr>
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<td></td>
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<td>D</td>
<td>D</td>
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<td>Cremona St / W Nickerson</td>
<td>A</td>
<td>B</td>
<td>B</td>
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<td>B</td>
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</table>
Other Intersection Considerations

- Safety
- Observations

- Photo of 3rd/Nickerson
- Photo 3rd/Dravus
Event Management Plan

- **Who?**
  - Transportation Event Coordinator

- **When?**
  - Master Calendar
  - Off campus events to off hours/days

- **Where?**
  - Identify parking locations
  - Communicate: website, tickets, signage to parking
  - Restrict off-campus draw events to non-school hours/days

- **How?**
  - Preferential parking to HOV (3+)
  - Direct folks to arterials
  - Manual assist at 3rd/Dravus if needed
Other Actions

- Propose modifications to 3rd/Nickerson to SDOT
- Work with SDOT to review on-street parking on 3rd near Dravus
- Consider impacts of truck loading zone north of Dravus/3rd intersection
Parking

• Parking requirements from SMC 23.54.016
  • Major Institutions

• Current Requirements
  • Requirements: 1,056 – 1,425
  • Current Supply: 1,350
  • Peak Parking On + Off Campus: 1,380

• 2013 with project:
  • 1,216 – 1,640 spaces required
  • Supply: 1,418
Master Plan Check

• Enrollment:
  • Master Plan EIS (2015): 3,410
  • Current: 3,044
  • Currently projected 2013 : 3,176

• Intersection Operations: No new problem intersections

• Performance Center: Identified in EIS (1/3 size of Master Plan)
Questions?