North Avenue Reconstruction Project

CSS Meeting #6
April 13, 2016
Agenda

• Convene the Meeting
• Review of CSS Advisory Group Meetings 1 - 5
• Project Update
• Public Meeting Debrief
• Next Steps & Schedule Update
• Adjourn
REVIEW OF CSS ADVISORY GROUP MEETINGS 1 – 5
CSS Meeting #1

• Issues affecting North Avenue
  – Speeding, access, lack of bike/ped facilities, good visual setting, RR crossing delays & safety, roadway configuration

• Vision for the future North Avenue
  – Better intersection configurations, safety, address speeding, stormwater treatment, stormwater treatment
CSS Meeting #2

• Individual and group weighting exercises
  – Improve access to/from North Avenue
  – Address speeding/safety
  – Improve curves/intersections
CSS Meeting #3

• Crash analysis & discussion
• Review of “draft” Purpose and Need
  – Safety, capacity, roadway deficiencies, consistency with local plans
• Proposed typical sections
• Locations for traffic counts and speed study
CSS Meeting #4

• Drainage & stormwater process discussion
• Speed survey and traffic counts results and discussion
• Walk through of the initial alternatives
CSS Meeting #5

• Refined Purpose and Need
• Traffic Discussion
• Traffic Calming
• Revised Alternatives
PROJECT UPDATES
POPULATION PROJECTIONS
SEWRPC’s VISION 2050

• Land Use topics
  – Urban areas
  – Job/Housing balance
  – Rural areas

• Transportation topics
  – Public transit
  – Bicycle/Pedestrian
  – Arterials & Highways
  – Intercity travel
  – Freight

SEWRPC’s VISION 2050 will be reflected in a year 2050 regional land use and transportation plan for Southeastern Wisconsin

http://vision2050sewis.org/Vision2050
SEWRPC’s VISION 2050

Table IV-4
FORECAST GROWTH IN THE REGION: 2050

<table>
<thead>
<tr>
<th>County</th>
<th>Population</th>
<th></th>
<th></th>
<th></th>
<th>Employment</th>
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<tbody>
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<td>Kenosha</td>
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<td>238,000</td>
<td>238,000</td>
<td>62,600</td>
<td>95,400</td>
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<tr>
<td>Milwaukee</td>
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<td>1,011,900</td>
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<td>109,100</td>
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<td>227,700</td>
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<td>140,600</td>
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<td><strong>Waukesha</strong></td>
<td><strong>389,900</strong></td>
<td><strong>481,400</strong></td>
<td><strong>481,400</strong></td>
<td><strong>152,700</strong></td>
<td><strong>195,900</strong></td>
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<tr>
<td>Region</td>
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<td>2,354,000</td>
<td>2,389,200</td>
<td>800,100</td>
<td>972,400</td>
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Source: U.S. Bureau of the Census and SEWRPC.

VISION 2050 WORKSHOP - WAUKESHA COUNTY
Date / Time:
05-04-2016 - 05:00 PM

Location:
Waukesha County Technical College
Richard T. Anderson Center, Conference Room C051
800 Main St
Pewaukee, WI 53072
SEWRPC’s VISION 2050

- Region divided into 44 Planning Analysis Areas

<table>
<thead>
<tr>
<th></th>
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<td>49,550</td>
<td>15,940</td>
<td>20,850</td>
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<td>33</td>
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<td>4,710</td>
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<tr>
<td>Waukesha County</td>
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<td>152,700</td>
<td>195,900</td>
<td>268,900</td>
<td>338,400</td>
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</table>

18% Increase 19% Increase 18% Increase

Source: SEWRPC
Household Projections

City of Brookfield
Households Projections

Village of Elm Grove
Households Projections

Source:
Demographic Services Center
Division of Intergovernmental Relations – Department of Administration
State of Wisconsin
4/11/2014
Population Projections

City of Brookfield
Population Projections

Village of Elm Grove
Population Projections

Source:
Demographic Services Center
Division of Intergovernmental Relations – Department of Administration
State of Wisconsin
4/11/2014
LEVEL OF SERVICE
# Level of Service (LOS) Definitions

## Roadway

<table>
<thead>
<tr>
<th>LOS</th>
<th>Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Free flow traffic</td>
<td><img src="image1.png" alt="Diagram" /></td>
</tr>
<tr>
<td>B</td>
<td>Minimum delays</td>
<td><img src="image2.png" alt="Diagram" /></td>
</tr>
<tr>
<td>C</td>
<td>Some restricted movements</td>
<td><img src="image3.png" alt="Diagram" /></td>
</tr>
<tr>
<td>D</td>
<td>Restricted movements</td>
<td><img src="image4.png" alt="Diagram" /></td>
</tr>
<tr>
<td></td>
<td>Speeds decline</td>
<td><img src="image5.png" alt="Diagram" /></td>
</tr>
<tr>
<td>E</td>
<td>Roadway is at capacity</td>
<td><img src="image6.png" alt="Diagram" /></td>
</tr>
<tr>
<td>F</td>
<td>Demand exceeds capacity</td>
<td><img src="image7.png" alt="Diagram" /></td>
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</tbody>
</table>

## Intersections

<table>
<thead>
<tr>
<th>LOS</th>
<th>Description</th>
<th>Diagram</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Minimal delays</td>
<td><img src="image8.png" alt="Diagram" /></td>
</tr>
<tr>
<td>B</td>
<td>Low level of delays</td>
<td><img src="image9.png" alt="Diagram" /></td>
</tr>
<tr>
<td>C</td>
<td>Occasional backups</td>
<td><img src="image10.png" alt="Diagram" /></td>
</tr>
<tr>
<td>D</td>
<td>Extensive delays</td>
<td><img src="image11.png" alt="Diagram" /></td>
</tr>
<tr>
<td>E</td>
<td>Intersection at capacity</td>
<td><img src="image12.png" alt="Diagram" /></td>
</tr>
<tr>
<td>F</td>
<td>Demand exceeds capacity</td>
<td><img src="image13.png" alt="Diagram" /></td>
</tr>
</tbody>
</table>
Existing Year LOS

**LEGEND**
- ▶️ NUMBER OF TRAVEL LANES
- 🔵 LEVEL OF SERVICE A
- 🔵 LEVEL OF SERVICE B
- 🔵 LEVEL OF SERVICE C
- 🔵 LEVEL OF SERVICE D
- 🔵 LEVEL OF SERVICE E
- 🔵 LEVEL OF SERVICE F

**AM PEAK HOUR**

**PM PEAK HOUR**
No-Build 2039 Roadway LOS
Three Lane TWLT
2039 Roadway LOS

Legend:
- Number of Travel Lanes
- Level of Service A
- Level of Service B
- Level of Service C
- Level of Service D
- Level of Service E
- Level of Service F

AM PEAK HOUR

PM PEAK HOUR
Four Lane Divided & Five Lane TWLTL 2039 Roadway LOS
## Intersection LOS

<table>
<thead>
<tr>
<th>Location</th>
<th>Existing Year</th>
<th>No Build 2039</th>
<th>Three Lane TWLTL 2039</th>
<th>Four Lane Divided 2039</th>
<th>Five Lane TWLTL 2039</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calhoun Road</td>
<td>C/C</td>
<td>C/D</td>
<td>C/D</td>
<td>C/C</td>
<td>C/C</td>
</tr>
<tr>
<td>Pilgrim Road</td>
<td>C/C</td>
<td>D/D</td>
<td>D/D</td>
<td>C/C</td>
<td>D/D</td>
</tr>
<tr>
<td>Lilly Road</td>
<td>B/B</td>
<td>C/C</td>
<td>C/C</td>
<td>B/B</td>
<td>C/C</td>
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<tr>
<td>124th Street</td>
<td>C/E (47)</td>
<td>D/D</td>
<td>D/D</td>
<td>D/D</td>
<td>D/D</td>
</tr>
</tbody>
</table>

**Notes:**
- As presented, the first letter is the LOS for the AM Peak and the second letter is the LOS for the PM Peak.
- Red text represents LOS E or LOS F. Numbers in parentheses represent average delay per vehicle in seconds.
CULTURAL RESOURCES – PROPERTIES POTENTIALLY ELIGIBLE FOR THE NRHP
Elm-Brook State Bank
2255 N. Calhoun Road

• Eligible under Criteria B (significant persons)
  – Association with Rolland Ruby, former farmer and real estate
  – Identified as among the key persons to promote and develop the City of Brookfield
  – It was determined that this structure best reflects Ruby’s contributions to the development of Brookfield

• Built in conjunction with the Ruby Isle Shopping Center

• First bank located in the City of Brookfield
Daubner Farmstead
16680 W. North Avenue

• Eligible under Criteria C
  – Architecture as the only high-style example of Italianate architecture located in the City of Brookfield

• Built by Civil War veteran George Daubner in 1870
PUBLIC INFORMATION
MEETING DEBRIEF
PIM #2 Summary

• Tuesday, March 15, 2016
  – 4:00 pm to 7:00 pm at the Brookfield Public Safety Building

• 77 attendees

• Exhibits
  – Overview of the study corridor
  – Traffic and crash information on the area
  – Existing and potential reconstruction typical sections
  – Timelines for the proposed project
  – Preliminary engineering plans
Comment Topics

• 24 comments received at the PIM
  – Four lane divided
    • Five in favor, three against
  – Five lane TWLTL
    • Five in favor, five against
  – Roundabout
    • Zero in favor, six against
  – Three lane TWLT
    • Three in favor, zero against
OTHER MEETINGS AND DISCUSSIONS
Recent Meetings

• Railroad coordination
• Local officials
• Stormwater management
NEXT STEPS AND SCHEDULE UPDATE
Next Steps

- Determine alternative impacts
- Cost estimates will be developed
- Continue progress on the Environmental Assessment (EA)
- CSS 7 – July 15, 2016
  - Alternative impacts
- CSS 8 – October 3, 2016
  - Preview the Preferred Alternative and EA
- CSS 9 & 10 – December 2016/May 2017
  - Design updates