PUBLIC HEARING
I-35/ I-80/ Iowa 141 Interchange Study
Interchange Justification Report and Environmental Assessment
Polk County, Iowa
IM-80-3(178)127--13-77
Presentation Overview

- Location and History
- Purpose and Need
- Alternatives
- Overview of Impacts
- Next Steps
- Project Sequencing
- Project Cost
- How to Submit Comments
Project Location & Study Area
History of Project

2007 – DMAMPO conducted regional freeway system study
2008 – Study of new interchange at NW 100th Street begins
2013 – Operational study of I-35/I-80 between Douglas Ave and 86th St completed
2015 – I-35/I-80/IA 141 IJR and EA Study begins
2016 – Construction of NW 100th Street Bridge begins
2016 – IJR approved by FHWA September 1, 2016
2016 – EA approved by FHWA September 7, 2016
Purpose and Need

Purpose of Project:
• Improve safety and increase traffic capacity
• Evaluate new Interstate System access between the Douglas Ave and NW 86th Street Interchanges

Need for Action:
• Back ups during peak traffic hours
• Northbound exit loop ramp over capacity
• Crashes are above statewide average
Alternatives Considered
### Screening of Alternatives

#### Preliminary Comparison of Alternative Impacts

<table>
<thead>
<tr>
<th>Resource</th>
<th>No Build</th>
<th>1*</th>
<th>2*</th>
<th>3*</th>
<th>4*</th>
<th>5*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right of Way (acres)</td>
<td>0</td>
<td>17.6</td>
<td>44.6</td>
<td>63.5</td>
<td>57.3</td>
<td>52.1</td>
</tr>
<tr>
<td>Floodplains (acres)</td>
<td>0</td>
<td>1.68</td>
<td>1.70</td>
<td>1.70</td>
<td>1.70</td>
<td>4.16</td>
</tr>
<tr>
<td>Wetlands (acres)</td>
<td>0</td>
<td>2.93</td>
<td>5.28</td>
<td>6.75</td>
<td>6.36</td>
<td>7.84</td>
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<tr>
<td>Surface Water and Water Quality (linear feet)</td>
<td>0</td>
<td>973</td>
<td>2,347</td>
<td>2,896</td>
<td>2,763</td>
<td>3,210</td>
</tr>
<tr>
<td>Woodlands (acres)</td>
<td>0</td>
<td>0.00</td>
<td>0.08</td>
<td>0.09</td>
<td>0.08</td>
<td>6.72</td>
</tr>
<tr>
<td>Opinion of Probable Construction Cost ($ Millions)</td>
<td>0</td>
<td>54.8</td>
<td>60.8</td>
<td>91.2</td>
<td>79.9</td>
<td>100</td>
</tr>
</tbody>
</table>

*Impacts based on a review of available desktop level data and preliminary NEPA impact areas at the time alternatives were dismissed.*
Preferred Alternative

Features of Preferred Alternative (Alternative 5):

- Meets purpose and need
- Adds dual-lane flyover ramp
- Removes existing loop ramps
- Provides full interchange at NW 100th Street and Meredith Drive
- Improves interchange with IA 141
- Includes construction of collector-distributor roads
## Environmental Assessment & Impacts

<table>
<thead>
<tr>
<th>Issue</th>
<th>No Build Alternative</th>
<th>Preferred Alternative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Right of Way Acquisition (acres)</td>
<td>0</td>
<td>8.5</td>
</tr>
<tr>
<td>Potential Displacements (number)</td>
<td>0</td>
<td>1 Building / 6 Tenants</td>
</tr>
<tr>
<td>Wetland Impacts (acres)</td>
<td>0</td>
<td>1.86</td>
</tr>
<tr>
<td>Surface Waters and Water Quality (linear feet)</td>
<td>0</td>
<td>948</td>
</tr>
<tr>
<td>Floodplains (acres)</td>
<td>0</td>
<td>1.9</td>
</tr>
<tr>
<td>Noise Impacts (number)</td>
<td>1</td>
<td>7</td>
</tr>
<tr>
<td>Utilities (number of crossings)</td>
<td>0</td>
<td>13</td>
</tr>
<tr>
<td>Visual</td>
<td>No Change</td>
<td>Minor Change</td>
</tr>
</tbody>
</table>

*Impacts based on project level data and field study information.*
Next Steps

- EA Signed Sept. 7, 2016
- FONSI* Approved 2016/17
- Final Design Plans 2017
- Right-of-Way Acquisition 2018
- Begin Construction 2018/19

Public Hearing – Oct. 24, 2016 (We are here)

* FONSI – Finding of No Significant Impact
Project Sequencing for the Initial Build of the Preferred Alternative

- 2017/18 – Grade and Pave
- 2019/20 – Grade and Pave
- 2019/20 – Bridge
- 2020 – Ramp/Loop Removal
Project Sequencing for the Final Build of the Preferred Alternative

Proposed Sequencing – Final Build

2017-2020 – Initial Build Construction

Planned Improvements – Final Build
Other Locally-Programmed Transportation Projects

2016 – Grade and Pave (Grimes/Johnston/Urbandale)
2016 – Bridge; Grade and Pave (Urbandale)
2017 – Grade and Pave (Johnston)
2017 – IA 141 Widening (Iowa DOT)
2018 – SE 37th Street Widening (Grimes)
## Opinion of Probable Construction Cost

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
<th>Programmed Amount</th>
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</thead>
<tbody>
<tr>
<td>2018</td>
<td>Right of Way</td>
<td>$ 0.6 M</td>
</tr>
<tr>
<td>2019</td>
<td>Grading, Bridge</td>
<td>$ 19.5 M</td>
</tr>
<tr>
<td>2020</td>
<td>Grading, Paving, Signals, Lighting</td>
<td>$ 23.8 M</td>
</tr>
<tr>
<td>2021</td>
<td>Erosion Control</td>
<td>$ 0.3 M</td>
</tr>
<tr>
<td></td>
<td><strong>Total</strong></td>
<td><strong>$ 44.2 M</strong></td>
</tr>
</tbody>
</table>

Final Build of the Preferred Alternative is estimated at $100 M in 2018 dollars

*(Includes programmed dollars)*
Why Can’t the Existing Loop Ramps Remain?

- Existing loops would require rebuild
- Additional cost
- Loops not viable with C/D road concept
- Complex traffic signing required
- Reduces distance from flyover to SE 37th Street
- Department desire to remove loop ramps on curve
Why Can’t an At-Grade Alternative be Constructed?

- Poor traffic operations (Congestion)
- Railroad conflict
- Disrupts C/D road connectivity
How Will the SE 37th Street Intersection with IA 141 Operate?
How Will the SE 37th Street Intersection with IA 141 Operate?

Initial Build

- Improved intersection
- Approximately 1,200 feet between flyover ramp and intersection
**How Will the SE 37th Street Intersection with IA 141 Operate?**

**Final Build**

- Connection to IA 141 from flyover ramp still provided south of SE 37th Street
- Northbound flyover bridge over SE 37th Street avoids traffic signal
Public Comments

Comments Due by Nov. 7, 2016. Three ways to provide comments:

Online:

By Email:
scott.dockstader@dot.iowa.gov

By Mail:
Scott Dockstader, PE
District Engineer
Iowa DOT - District 1 Office
1020 S. 4th St., Ames, IA 50010
For More Information

Visit:  
http://www.iowadot.gov/pim

Contact: Scott Dockstader
District Engineer  
Iowa DOT - District 1 Office  
1020 S. 4th St., Ames, IA  50010  
(515) 239-1194  
escott.dockstader@dot.iowa.gov