KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

Countywide Needs Assessment

December 2, 2008

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Senior Transportation Planner

Eric Hopp
Transportation Planner II

North Central Texas Council of Governments
## KAUFMAN COUNTY
### MULTIMODAL TRANSPORTATION STUDY

#### Population Projections

<table>
<thead>
<tr>
<th></th>
<th>2005 Population*</th>
<th>2030 Population*</th>
<th>Percent Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaufman County</td>
<td>80,279</td>
<td>277,745</td>
<td>245%</td>
</tr>
<tr>
<td>Combine</td>
<td>1,862</td>
<td>3,114</td>
<td>67%</td>
</tr>
<tr>
<td>Crandall</td>
<td>2,812</td>
<td>3,564</td>
<td>26%</td>
</tr>
<tr>
<td>Forney</td>
<td>7,960</td>
<td>43,825</td>
<td>450%</td>
</tr>
<tr>
<td>Kaufman</td>
<td>6,954</td>
<td>19,191</td>
<td>175%</td>
</tr>
<tr>
<td>Kemp</td>
<td>1,126</td>
<td>1,320</td>
<td>17%</td>
</tr>
<tr>
<td>Mabank</td>
<td>2,152</td>
<td>10,719</td>
<td>398%</td>
</tr>
<tr>
<td>Terrell</td>
<td>12,753</td>
<td>60,156</td>
<td>332%</td>
</tr>
</tbody>
</table>

*NCTCOG estimate adjusted from 2000 Census count*
### KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

#### Employment Projections

<table>
<thead>
<tr>
<th>Location</th>
<th>2005 Employment*</th>
<th>2030 Employment*</th>
<th>Percent Increase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaufman County</td>
<td>33,810</td>
<td>82,078</td>
<td>143%</td>
</tr>
<tr>
<td>Combine</td>
<td>457</td>
<td>1,926</td>
<td>321%</td>
</tr>
<tr>
<td>Crandall</td>
<td>155</td>
<td>1,145</td>
<td>638%</td>
</tr>
<tr>
<td>Forney</td>
<td>1,740</td>
<td>5,656</td>
<td>225%</td>
</tr>
<tr>
<td>Kaufman</td>
<td>2,915</td>
<td>8,769</td>
<td>200%</td>
</tr>
<tr>
<td>Kemp</td>
<td>350</td>
<td>821</td>
<td>134%</td>
</tr>
<tr>
<td>Mabank</td>
<td>498</td>
<td>3,132</td>
<td>528%</td>
</tr>
<tr>
<td>Terrell</td>
<td>10,729</td>
<td>16,796</td>
<td>56%</td>
</tr>
</tbody>
</table>

*NCTCOG estimate adjusted from 2000 Census count
**KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY**

**Work Commute Patterns***

If you live in Kaufman County, where do you work?

<table>
<thead>
<tr>
<th>County</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dallas County</td>
<td>47%</td>
</tr>
<tr>
<td>Kaufman County</td>
<td>43%</td>
</tr>
<tr>
<td>Collin County</td>
<td>2%</td>
</tr>
<tr>
<td>Tarrant County</td>
<td>2%</td>
</tr>
<tr>
<td>Rockwall County</td>
<td>1%</td>
</tr>
<tr>
<td>Ellis County</td>
<td>1%</td>
</tr>
</tbody>
</table>

If you work in Kaufman County, where do you live?

<table>
<thead>
<tr>
<th>County</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kaufman County</td>
<td>75%</td>
</tr>
<tr>
<td>Dallas County</td>
<td>15%</td>
</tr>
<tr>
<td>hunt County</td>
<td>4%</td>
</tr>
<tr>
<td>Rockwall County</td>
<td>2%</td>
</tr>
<tr>
<td>Collin County</td>
<td>1%</td>
</tr>
<tr>
<td>Tarrant County</td>
<td>1%</td>
</tr>
</tbody>
</table>

*Source: County-to-County Worker Flows for North Central Texas: 2000*
KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

Data Resources

Public Input

2000 County-to-County Worker Flows

2004 Traffic Counts

2005 Land Use Patterns

2005-2030 Population/Employment Projections

Existing County/City Thoroughfare Plans

Thoroughfare Classification Guidelines

Federal Functional Classification System (FFCS)

Mobility 2030 MTP Recommendations
Kaufman County
Areas of Anticipated Residential Growth

Legend
- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- Quarter Mile Residential Buffer *

* Source: NCTCOG Research & Information Services Department 2004 Land Use Data
** Source: 2000 US Census Journey to Work Data

Note: Roadways as shown are a combination of current year RIS network and Mobility 2030: The Metropolitan Transportation Plan network where available.
New facility locations indicate transportation needs and do not represent specific alignments.

May, 2008
Kaufman County
Areas of Anticipated Residential Growth

Legend
- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- Quarter Mile Residential Buffer *
- Three Quarter Mile Residential Buffer *

* Source: NCTCOG Research & Information Services Department 2004 Land Use Data
** Source: 2000 US Census Journey to Work Data

Note:
Roadways as shown are a combination of current year RIS network and Mobility 2030: The Metropolitan Transportation Plan network where available.
New facility locations indicate transportation needs and do not represent specific alignments.

May, 2008
### KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

#### Alternative Rankings

<table>
<thead>
<tr>
<th></th>
<th>Existing Roadways</th>
<th>Critical Locations</th>
<th>New Corridors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mobility</td>
<td>○</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>ROW</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Displacements</td>
<td>○●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>Physical Constraints</td>
<td>●●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Cost</td>
<td>●</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>Safety</td>
<td>○●</td>
<td>●</td>
<td>○●</td>
</tr>
<tr>
<td>Transit</td>
<td>○●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

- ○ - Less Beneficial
- ● - Moderately Beneficial
- ●● - More Beneficial

DRAFT
Kaufman County

Thoroughfare Plan
Recommendations:
Critical Connections

Legend
- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- County Boundary
- Improvements to Existing Roads
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Enhanced Corridor*

New Facilities
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Mid-Priority Areas: Potential Geometric Improvements

Note:
Roadways as shown are a combination of current year RIS network and Mobility 2030: The Metropolitan Transportation Plan network where available.

New facility locations indicate transportation needs and do not represent specific alignments.


Current corridors should be reviewed to determine where environment, safety and financial conditions allow for a more direct geometric alignment.

November, 2008
Kaufman County
Thoroughfare Plan
Recommendations:
Geometric Improvement
Scenario

Legend
- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- County Boundary

Improvements to Existing Corridors
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Enhanced Corridor*
- Realigned Parkway
- Realigned Road

* Corridor enhancements may include modification of intersection/roadway geometries, or addition of one more lanes to existing roadway. Significantly larger in scope than other types of improvements.

New Facilities
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road

Note:
Roadways as shown are a combination of current and future conditions. Some improvements may not be visible due to "in-fill" of roadways to provide a more direct geometric alignment.

Recommendations:
- Based on 2004 traffic counts, 2004 land use data, 2030 population, and 2005 TIP
- Considered the Federal Functional Classification System, & spacing guidelines from the TIP for the Regional Thoroughfare Plan

Current corridors should be reviewed to determine where environment, safety and financial conditions allow for a more direct geometric alignment.

November, 2008

0 1.5 3 6 9 Miles

Legend:
- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- County Boundary

Improvements to Existing Corridors
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Enhanced Corridor*
- Realigned Parkway
- Realigned Road

* Corridor enhancements may include modification of intersection/roadway geometries, or addition of one more lanes to existing roadway. Significantly larger in scope than other types of improvements.

New Facilities
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road

Note:
Roadways as shown are a combination of current and future conditions. Some improvements may not be visible due to "in-fill" of roadways to provide a more direct geometric alignment.

Recommendations:
- Based on 2004 traffic counts, 2004 land use data, 2030 population, and 2005 TIP
- Considered the Federal Functional Classification System, & spacing guidelines from the TIP for the Regional Thoroughfare Plan

Current corridors should be reviewed to determine where environment, safety and financial conditions allow for a more direct geometric alignment.

November, 2008
Kaufman County
Thoroughfare Plan
Recommendations:
NCTCOG/Consultant Overlay

Legend

- Freeway / Tollway
- Major Arterial
- Minor Arterial
- Rail Corridor
- County Boundary
- Improvements to Existing Roads
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Enhanced Corridor*

*Corridor enhancements may include modification of intersections at intersections, increased lanes, or addition of center turn lanes to increase capacity without significant change to right of way

New Facilities
- 4/6 Lane Divided Parkway
- 2/4 Lane Undivided Road
- Consultant Proposed New Roads
- Consultant Proposed Thoroughfare


Note:
Roadways as shown are a combination of current year RIS network and Mobility 2030. The Metropolitan Transportation Plan network where available.

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Current corridors should be reviewed to determine where environment, safety and financial conditions allow for a more direct geometric alignment.

November, 2008
KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

What Now?

Review and refine work to date

Form a work group consisting of county/city staff and elected officials

Establish project scope, goals, and objectives

Recommend future transportation system improvements
  • Address future thoroughfare development (location, alignment, and design)
  • Review multimodal options and connectivity to regional transit system
  • Functional classification
  • Right-of-way/corridor preservation

Recommend implementation elements
  • Prioritize thoroughfare plan improvements
  • Identify implementation strategies to guide thoroughfare plan development
  • Clearly outline the intent and purpose of the thoroughfare plan

Plan implementation

And every step of the way..................PUBLIC INVOLVEMENT!!
KAUFMAN COUNTY MULTIMODAL TRANSPORTATION STUDY

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