

Memorandum



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Date May 4, 2017
Attention Clarence Daugherty
From Jeremy Wyndham
Subject **Collin County On-Call Transportation Consultation**
Copies to Tracy Homfeld, Adam Garms, Ed Pultorak

Below is the scope and fee for the requested updates to the Collin county Thoroughfare and Transit Plan and additional travel demand model runs. This task will be an on-call task to be completed under TASK 4 On-Call Transportation Consultation in the Scope of Services: Collin County Mobility Plan Additional Demographics and Travel Demand Modeling Services Agreement dated May 19, 2015 for an additional agreed upon fee.

TASK 4 ON-CALL TRANSPORTATION CONSULTATION

At the sole discretion of Collin County, the Engineer shall provide additional services, to include such services as on-call travel demand modeling, traffic analysis, transportation planning, alternatives analysis and conceptual design services. These services shall be documented via letter or e-mail correspondence, where the requested scope, fee and schedule, as negotiated by the County and the Engineer, are identified for each request. Payment terms for this work shall be in accordance with the overall contract payment terms.

4.1 Collin County Thoroughfare and Transit Plan Map Updates

The Collin County Thoroughfare and Transit Plan Map was updated in the 2014 Update to the Collin County Mobility Plan. Collin County has requested up to 10 changes or adjustments to the thoroughfare plan map. Under this task the Jacobs Team will update the GIS layers and map for the Collin County Thoroughfare and Transit Plan.

4.1.1 Schedule

It is anticipated that the update to the map will be completed within two (2) weeks from provision of network changes (to be provided by Collin County) and notice to proceed on this task.

4.1.2 Deliverables

Collin County Thoroughfare and Transit Plan Map (pdf) and related ESRI shapefile formats.

4.1.3 Meetings

This task includes the consultant team participation in conference call meetings as needed during the task schedule.

4.2 Collin County Outer Loop Additional Travel Demand Model Runs

The Collin County Thoroughfare Plan calls for the Collin County Outer Loop to be a Toll Road. Collin County has requested additional travel demand model runs, changing the Collin County Outer Loop to



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be a Freeway without Tolls. Following the changes identified in Task 4.1, the Jacobs Team will modify the travel demand model network that was used for the Build-Out scenarios to remove tolls from the Collin County Outer Loop and run the travel demand model three times (2035 demographics, 2.1M Build-Out Scenario, and 3.4M Build-Out Scenario) to produce forecasted traffic volumes and levels of service. No modification of the demographic scenarios is included in this task. This task includes a maximum of three additional travel demand models runs.

4.2.1 Schedule

It is anticipated that each travel demand model run will be completed within two (2) weeks, with the maximum of three travel demand model runs being completed within six (6) weeks from completion of Task 4.1 and notice to proceed on this task.

4.2.2 Deliverables

Traffic Volume maps, one showing main lanes and another showing service roads.

A chart showing the volumes for each segment (where there is a change in volume) for all of the Collin County Outer Loop.

Level of Service (LOS) maps.

Travel Demand Model results described above shall be provided for the 2035, 2.1M and 3.4M Build-Out scenarios, in TransCAD and ESRI shapefile formats.

4.2.3 Meetings

This task includes the consultant team participation in conference call meetings as needed during the task schedule. Up to one (1) in-person meeting is anticipated and included, if needed.

4.3 Collin County Thoroughfare and Transit Plan Map Updates (Eastside of county)

The Collin County Thoroughfare and Transit Plan Map was updated in the 2014 Update to the Collin County Mobility Plan. Collin County has requested a review of the Thoroughfare and Transit Plan for the eastside of the county (east of US 75 and Lavon Lake). The Thoroughfare and Transit Plan on the eastside has not been developed to the same level as the rest of the county due to constraints that were identified in the Addendum to the Collin County Mobility Plan 2014 Update. In the addendum, an additional Build-Out Scenario was developed removing these constraints but the roadway network included in the Thoroughfare Plan was not changed. Under this task the Jacobs Team will review previous thoroughfare plans and the process used in the recent update to the thoroughfare plan to identify any additional roadways that could be added to the Thoroughfare and Transit Plan for the eastside of the county. Jacobs will also review the spacing and connections of the Thoroughfare and Transit Plan roadway network to see if any additional roadways should be added to the thoroughfare plan on the eastside of the network. Jacobs will contact the municipalities in this area of the county (Lavon, Josephine, Nevada, Farmersville, Blue Ridge, Melissa and Anna) to collect any recent or updated thoroughfare or transportation plans that had not been previously included in the mobility plan. Jacobs will produce a draft revision to the thoroughfare plan showing any changes or additions to the roadway network for the eastside of the county. Following review of the draft revisions by Collin County and the municipalities, Jacobs will finalize the revisions and produce an addendum to the Collin County Mobility Plan for the updated Thoroughfare and Transit Plan.

4.3.1 Schedule

It is anticipated that the update to the map will be completed within twelve (12) weeks from notice to proceed on this task.

4.3.2 Deliverables

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Revised Collin County Thoroughfare and Transit Plan Map (pdf) and related ESRI shapefile formats, generating an addendum to the Collin County Mobility Plan.

4.3.3 Meetings

This task includes the consultant team participation in meetings and conference calls. Up to four (4) in-person meetings and up to eight (8) WebEx's/teleconferences is anticipated and included.

Proposed Fee

The estimated budget for each task is listed below for a total not-to-exceed fee of \$107,380.40. Additional individual travel demand model runs can be completed, with approval from Collin County, for an additional \$8,432.90, per network and scenario.

Task 4.1	\$8,898.40
Task 4.2	\$ 35,020.90
Task 4.3	\$ 63,461.10