



Date: August 22,, 2017

To: Thomas J. Bonfield, City Manager
Through: Keith Chadwell, Deputy City Manager
From: Terry Bellamy, Director of Transportation
Subject: Interlocal Agreement with NCDOT and the City of Raleigh for the Regional Intelligent Transportation Systems (ITS) Deployment Plan for the Triangle

Executive Summary

The purpose of this item is to enter into an Interlocal agreement with the City of Raleigh and the North Carolina Department of Transportation (NCDOT) for the update of the regional Intelligent Transportation Systems (ITS) strategic deployment plan for the Triangle. The Durham-Chapel Hill-Carrboro Metropolitan Planning Organization (DCHC MPO), the Capital Area Metropolitan Planning Organization (CAMPO) and the North Carolina Department of Transportation (NCDOT) are jointly developing Intelligent Transportation Systems (ITS) Deployment Plan update. Intelligent Transportation Systems represent application of advanced technologies to improve safety and reduce congestion, inform the public about travel conditions and enhance the capacity and efficiency of transportation systems. The work associated with the development of the ITS strategic deployment plan will be undertaken through consulting services and managed by the Capital Metropolitan Planning Organization (CAMPO).

The total budget for the project is \$350,000. Per the Interlocal Agreement, NCDOT will be responsible for \$200,000, CAMPO would be responsible for \$100,000 and the DCHC MPO would be responsible for \$50,000. Federal funds through the DCHC MPO will supply 80 percent of the \$50,000 and local matching funds will supply the remaining 20 percent.

Recommendation

The Administration recommends that the City Council ~~authorize resolve that~~ the City Manager ~~be authorized~~ to execute the Interlocal Agreement with NCDOT, the City of Raleigh, CAMPO, and DCHC MPO and the City of Durham for the development of the regional ITS deployment plan for the Triangle.

Background

Federal regulations require the DCHC MPO to develop and update an Intelligent Transportation Systems regional architecture consistent with the national architecture, and develop and update a Strategic Deployment Plan in collaboration and coordination with the North Carolina Department of Transportation (NCDOT) and other regional stakeholders.

ITS is a broad range of diverse technologies such as wireless communications, electronics, information processing and control which are applied to existing transportation systems to improve safety, reduce congestion, enhance mobility, minimize environmental impacts, save

energy, inform the public about travel conditions and more effectively handle incident management and emergency evacuation. Past ITS initiatives in the Triangle include: the variable message signs and cameras on I-40, NC 147, and I-85, the freeway incident management program, the Durham signal system upgrade, GoDurham and GoTriangle automated vehicle locator, transit real time information, etc.

This study is a joint effort by the DCHC MPO, CAMPO, and NCDOT in furtherance of implementation of the federally mandated Metropolitan Transportation Plan (MTP). Authorizing the execution of the Interlocal Agreement will allow the City to reimburse the CAMPO for its share of the cost of the project. This project has been approved by the MPO Board and is included in its Unified Planning Work Program (UPWP).

Issues and Analysis

The development of the regional ITS will meet the federal metropolitan transportation planning requirement that calls for the DCHC MPO to address congestion, multimodal transportation and roadway pricing in its planning process and long range transportation plan.

ITS programs are designed to improve transportation efficiency and safety, reduce congestion, enhance mobility and better manage traffic and transit resources. ITS funds have been used for the installation of cameras and variable message signs on I-40, NC 147 and I-85. The proposed ITS deployment plan is required for the continued access to federal ITS funds necessary for the expansion of ITS projects such as more fiber optics, more cameras and variable message signs, transit real time information, bike and pedestrian ITS projects, freeway incident management operation, transit automatic vehicle locators, emergency response and evacuation, planning for recovery after disaster, etc. In order for the DCHC MPO to reimburse CAMPO, it must execute an Interlocal agreement with these agencies consistent with federal and State policies.

The City can accept or reject the proposed Interlocal agreement by adopting or not adopting the attached agreement. The work associated with the development of the ITS deployment plan will be undertaken through consulting services managed by CAMPO with funds to be provided by the DCHC MPO, CAMPO and NCDOT. If approved, Request for Proposals will be issued in October and the study scheduled to commence in January 2018 or thereabout.

Alternatives

- Authorize the City Manager to execute the attached Interlocal Agreement with the City of Raleigh, CAMPO and NCDOT. Funds will be available to carry out the development of the Regional ITS deployment plan as approved by the MPO Board. The City on behalf of the MPO, will reimburse the City of Raleigh 14 percent of the project costs or \$50,000.
- The City Council could choose to not authorize the City Manager to execute the Interlocal Agreement. Consequently, the DCHC MPO would not contribute its local funds to the project; therefore, it will not benefit from participation in this regional endeavor. Also, if the City does not provide funding for the project, the DCHC MPO will not benefit from further development of the emerging ITS technologies or the proposed Regional ITS deployment plan may not be undertaken.

Financial Impact

The total budget for the ITS deployment plan is \$350,000 of which the CAMPO is contributing 29 percent, NCDOT is contributing 57 percent, and the DCHC MPO 14 percent. Of the DCHC MPO's funding for this project, 80 percent (\$40,000) has been allocated by the DCHC MPO from federal STP-DA funds. The remaining 20 percent (\$10,000) of the funding is available in the DCHCMPO's operating budget.

UBE Information

Due to the nature of this agreement, this item was not reviewed for compliance with the Ordinance to Promote Equal Business Opportunities in City Contracts.

Attachments

Attachment - Interlocal Agreement between the City of Durham, the City of Raleigh and NCDOT for the development of regional ITS for the Triangle.