



Town of Indian Trail Engineering Department

Memo

TO: Mayor and Town Council
FROM: Scott J. Kaufhold, P.E., Town Engineer
DATE: April 6, 2011
COUNCIL DATE: April 12, 2011
SUBJECT: Intersection Analysis Study

General Information:

In 2008, the Town contracted with STV to develop a traffic conditions data base. Work involved collection and evaluation of traffic data to determine the existing level of service at the following five intersection locations:

1. Wesley Chapel Road/Rogers Road
2. Unionville Indian Trail Road/Sardis Church Road
3. Poplin Road/Rocky River Road (Potential NCDOT Project)
4. Unionville Indian Trail Road/Poplin Road (Proposed Bypass Interchange Location)
5. Rocky River Road/Indian Trail Fairview Road (Proposed NCDOT Project)

To address the traffic congestion issues facing the Town, an updated and expanded traffic conditions analysis is necessary. This analysis is essential in developing a list of proposed interim and long term intersection improvements and associated costs for possible Bond and/or Capital Improvement Projects.

Scope of work in the proposed Intersection Analysis Study will include updating the 2008 roadway and intersection traffic counts for intersection locations 1 & 2, expanding the study to include three new intersections (tbd), determining existing and future intersection capacity, and providing recommended interim and long term improvements and costs. The cost for this work averages \$5,700 per intersection.

To assist in this end, the Town applied for and was awarded a \$25,000 grant from MUMPO. The grant requires a minimum 20% local match (\$5,000). This funding will assess five major intersections.

Staff recommends Council approve funding and scope of work by STV/Ralph Whitehead.

Required Actions:

Council Approval

Attachment:

STV/Ralph Whitehead Scope of Work

April 4, 2011

Mr. Scott Kaufhold, PE
Town Engineer
Town of Indian Trail
P.O. Box 2430
Indian Trail, NC 28079

SUBJECT: Intersection Analysis and continued Roadway Data Collection
Indian Trail, NC

**SUPPLEMENTAL AGREEMENT NO. 3 TO LETTER AGREEMENT TO
PROVIDE MISCELLANEOUS ENGINEERING SERVICES DATED
JUNE 20, 2008**

Dear Mr. Kaufhold:

Based upon our recent discussions, we propose to provide the additional services described herein for the subject project in accordance with the following terms and conditions:

A. Scope of Additional Services - We will provide the following additional services: (Intersection and Roadway Segments subject to change depending on public comments and selection by Indian Trail)

- Conduct 5 roadway segment traffic counts in order to continue to develop a traffic conditions database.
- Conduct 5 traffic counts (7-9AM & 4-6PM turning movements on all 4 legs of 5 intersections (some of these intersections were counted in 2008, but based on the data collection, it is recommended to conduct traffic counts in 2011)
- Analyze 5 intersections in 2015 and 2030 with an approved growth rate between STV/RWA and the Town of Indian Trail for Level of Service (LOS).
- Develop recommended improvements and costs for improving the LOS of intersections for short term and long term recommendations. This will also include refinements per comments from Indian Trail.
- Provide traffic count data in GIS format to Indian Trail.

- B. **Projected Schedule** - The estimated schedule for the PROJECT shall be revised as follows:
The project should be completed by **August 31, 2011**.
- C. **Compensation** - For the Additional Services described herein, we will be paid an additional lump sum fee of **\$30,000**.
- D. **Assumptions** – The Town of Indian Trail and STV/RWA will come to an agreement on the growth rate percentage to use during the analysis for 2015 and 2030.
- E. **Incorporation of Original Provisions** - All other provisions of our Letter Agreement dated June 20, 2008 (including previous Supplemental Agreements thereto) are hereby incorporated and made part of this Supplemental Agreement.

Sincerely,

STV/RALPH WHITEHEAD ASSOCIATES, INC.

Scot Sibert, AICP
Project Manager

J. Edward Jenkins, PE
Senior Vice President

ACCEPTED: **TOWN OF INDIAN TRAIL**

BY: _____ ATTEST: _____

TITLE: _____ TITLE: _____