Task Order #3

MSA PROFESSIONAL SERVICES
More ideas. Better solutions.

To: **City of Windsor Heights**
Atten: Brett Klein
1145 66th Street, Suite 1
Windsor Heights, Iowa 50324

Date of Issuance: **May 5, 2016**

MSA Project No.: **09412008**

This task order will acknowledge that MSA Professional Services, Inc. (MSA) is authorized to begin work on the following project:

Project Name: University Avenue Traffic Study – Additional Data Collection

Scope of Work: See Attached – Task 2, Option 2 only

The scope of the work authorized is: See Attached Scope of Services

The schedule to perform the work is: approximate start: May 6, 2016
approximate completion: May 30, 2016

The lump sum fee for the work is: $4,300

This authorization for the work described above shall serve as the Agreement between MSA and OWNER. All services shall be performed in accordance with the Master Professional Services Agreement currently in force. Any attachments or exhibits referenced in this Agreement are made part of this Agreement. Payment for these services will be on a lump sum basis.

Approval: MSA shall commence work on this project in accordance with your written authorization. This authorization is acknowledged by signature of the authorized representatives of the parties to this Agreement. A copy of this Agreement signed by the authorized representatives shall be returned for our files.

CITY OF WINDSOR HEIGHTS

Shema Nutzman

City of Windsor Heights
Date: 5-5-16

1145 66th Street, Suite 1
Windsor Heights, IA, 50324
Phone: (515) 279-3662

MSA PROFESSIONAL SERVICES, INC.

Kevin Ruhland, P.E.
Traffic Engineering Team Leader
Date: 5-4-16

1555 SE Delaware Avenue, Suite F
Ankeny, IA 50021
Phone: (515) 964-2020

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Memo

To: Sheena Nuetzman, Director of Planning, Marketing and Development, City of Windsor Heights

From: Nichole Sungren, MSA Professional Services

Subject: University Avenue Traffic Study Additional Counts

Date: April 11, 2016

Ms. Nuetzman,

Per our meeting on March 28, 2016, MSA was directed to proceed with the University Avenue Traffic Study as authorized by the Council. The Traffic Study includes one weekday vehicle turning movement count, including bicycles and pedestrian counts, at six intersections. Weather has impacted our original schedule and MSA has not been able to perform the traffic counts due to rain and high winds in the past few weeks. MSA understands the value of collecting traffic counts, especially pedestrian counts, during optimal weather conditions for gathering the best possible data. MSA anticipates completing the field work for the traffic study on Tuesday, April 12th, weather permitting.

MSA was also directed at this meeting to provide costs to the City for a Saturday count in mid-May/mid-June, not including Memorial Day, as well as an additional weekday count in late April/early May. Saturday travel patterns can be different from typical weekday counts, particularly in commercial corridors, so collecting the additional data can have value for assessing traffic impacts along a corridor. With regards to the additional weekday count, it is our understanding that the purpose of this count is to provide a level of comfort that the counts collected are representative. Presumably, this would occur if both weekday counts are comparable to each other. While this step is not typically taken due to an understanding of historical and seasonal traffic volumes, it can prove valuable for situations where significant changes in traffic control or roadway configurations are proposed to provide additional support for the base data of any study being undertaken. With that in mind, MSA has provided a cost to collect a Saturday count, and two options for the weekday "confirmation count". These are further described on the following pages.

Task 1: Saturday Count

Included in this option is an additional vehicle turning movement count, including bicycles and pedestrians, at each of the 6 outlined intersections where Miovision counts are proposed in the original scope of services. Counts will be performed on a Saturday in mid-May/early June during a special event, but not Memorial Day weekend. A specific date will be coordinated and determined ahead of time by the City and MSA. Data will be collected using Miovision Data Collection equipment on a seasonally average, precipitation free day, preferably with low wind, to gather turning movement volume, vehicle classification, and bicycle/pedestrians counts for a period of six hours (Typically 9 AM – 3 PM).

This task does not include analysis of the Saturday Peak Hour, only collection of the data and comparison to the weekday count information collected. If the Saturday travel patterns and/or volumes are determined to be significantly different from the weekday volumes based on discussions between MSA and the City, a proposal to complete the additional analysis will be provided to the City before undertaking that effort.

Total Cost = $4,200

Task 2: Weekday "Confirmation Count"

Based on MSA's understanding of the purpose for this count, there are two options to collect additional weekday data. They are as follows:

Option 1: Complete a Second Weekday Turning Movement Count

This effort would include a duplication of the effort outlined in the already approved scope outlined as Task 1 – Turning Movement Traffic Counts. These counts would be collected on a second weekday and compared to the original counts. MSA would make a recommendation for which set of data or a combination of the data sets to be utilized in the analysis and present that information to the City for their consideration. Only one set of weekday data points would be analyzed.

Total Cost = $4,200

Option 2: Collect ADT Data for Multiple Days

An alternative approach that would allow for a better determination of what "average" conditions are along the corridor is to collect average daily traffic (ADT) over multiple days along University Avenue. ADT counts would provide volume and vehicle classification data that could be compared to the intersection data collected. That information could then be factored based on the results of the ADT study. The counters could be left in place over the weekend to get additional information on the Saturday counts as well.

Due to the corridor characteristics, MSA is proposing to use two trailer mounted radar units to collect ADT on University Avenue at different locations for a duration of at least two weeks. The two locations preliminarily considered are west of 70th Street (west of Hy-Vee) and east of 70th Street (near State Farm). Continuous data collection counts will provide vehicle volume and classification. The summary

data would provide hourly and daily summaries of traffic volumes that could be compared to the intersection turning counts. The turning movement counts could then be factored based on the findings of the ADT study. This information would be presented to the City and a final set of data would be approved for analysis. Only one set of weekday volumes would be analyzed under all alternative count scenarios.

Total Cost = $4,300

Please let us know if you have any questions regarding both the weekend and weekday additional count options. We are looking forward to completing the study and ensuring the findings provide the City with the necessary information to make an informed decision regarding the proposed concept for University Avenue.