



**AUTHORIZATION FOR SUPPLEMENTAL SERVICES**

**Project No.:** 5954.003  
**Project Name:** Cumberland Avenue Reconstruction Ph I & Ph II  
**Application No.** #007

**Name:** Dave Buck  
**Company:** City of West Lafayette  
**Address:** 609 West Navajo, West Lafayette, IN 47906  
**Date:** December 4, 2011  
**Fax:** (765) 775-5249  
**From:** Shawn H Strange, P.E.

We have been requested to provide the following services for the above referenced project. The services listed below are not included in our basic scope of services, and are not included in our base fee. These services will be billed as "Supplemental Services" as per this proposal. We will proceed with the work upon receipt of a signed copy of this authorization.

**City of West Lafayette hereby agrees to pay THE SCHNEIDER CORPORATION for the above-stated professional services within thirty (30) days of the date of the invoice, in addition to 1½ % per month (18% per year) on any balance unpaid after thirty (30) days and any cost of collection including, but not limited to, lien costs, court costs or attorney's fees involved in or arising out of the collection of any unpaid or past due balances.**

		<b>SERVICES TO BE PROVIDED:</b>								
		Supplemental Services are an amendment or an addition to the Professional Service Agreement entered into by the West Lafayette Board of Works and The Schneider Corporation December 2, 2008. This Authorization For Supplemental Services is subject to all the terms and conditions of the original Agreement between the parties dated 12/2/08. Services are as follows:								
Item:		Original	SSA #1	SSA #2	SSA #3	SSA #4	SSA #5	SSA #6	SSA #7	Total
a.	Topographic and Route Survey (Phase I)	\$36,127.00	\$17,200.00							\$53,327.00
b.	Topographic and Route Survey (Phase II)	TBD			\$26,100.00	\$12,235.00		\$1,640		\$39,975.00
c.	Geotechnical and Environmental Evaluation (Phase I)	\$4,515.00								\$4,515.00



		Original	SSA #1	SSA #2	SSA #3	SSA #4	SSA #5	SSA #6	SSA #7	Total
d.	Geotechnical and Environmental Evaluation (Phase II)	TBD				\$5,445.00	\$2,400.00			\$7,845
e.	Roadway and Roundabout Engineering (Phase I)	\$144,518.00	\$18,144.00							\$162,662
f.	Roadway and Roundabout Engineering (Phase II)	TBD				\$180,900.00				\$180,900
g.	Stormwater Management (Phase I)	\$21,930.00	\$14,570.00							\$36,500
h.	Stormwater Management (Phase II)	TBD				\$17,600.00				\$17,600
i.	Landscape Architecture (Phase I)	\$5,330.00		\$5,990.00						\$11,320
j.	Landscape Architecture (Phase II)	TBD				\$14,080.00				\$14,080
k.	Lighting Design (Phase I)	\$10,000.00								\$10,000
l.	Lighting Design (Phase II)	TBD				\$10,605.00				\$10,605
m.	Public Involvement and Visualization (Phase I)	\$7,040.00								\$7,040
n.	Public Involvement and Visualization (Phase II)	TBD				\$9,120.00				\$9,120
o.	Right of Way Engineering (Phase I)	TBD	\$14,900.00							\$14,900



The Schneider Corporation

1330 Win Hentschel Boulevard, Suite 100 West Lafayette, IN 47906-4156 Phone: 765.448.6661 Fax: 765.448.6665

		Original	SSA #1	SSA #2	SSA #3	SSA #4	SSA #5	SSA #6	SSA #7	Total
p.	Right of Way Engineering (Phase II)	TBD					\$18,575.00			\$18,575
q.	Right of Way Acquisition (Phase I)	TBD	\$32,558.50							\$32,558.50
r.	Right of Way Acquisition (Phase II)	TBD				\$8,225.00	\$71,200.00			\$79,425
s.	Bidding Process (Phase I)	\$9,250.00		\$4,500.00						\$13,750
t.	Bidding Process (Phase II)	TBD				\$12,540.00				\$12,540
u.	Meetings	T&M								
v.	Reimbursables	\$ 2,000.00 (allowance)		\$ 2,000.00 (allowance)		\$2,000.00 (allowance)				\$ 6,000 (allowance)
w.	Construction Inspection			\$254,800.00 (T&M)					\$339,090 (T&M)	\$593,890 (T&M)
x.	Recording Services							\$1,638 (T&M)		\$1,638 (T&M)
y.	Wall at Peppermill to Eliminate R/W							\$6,540		\$6,540
z.	Pedestrian MOT Changes							\$4,536		\$4,536
aa.	Utility Plan							\$2,568		\$2,568
bb.	Add Ditch plans to Project							\$5,840		\$5,840
cc.	Lighting Change to more efficient lighting							\$906		\$906
dd.	Design Changes							\$3,210		\$3,210
						<b>Subtotal</b>			<b>\$339,090</b>	



	Item Description	Fee
x.	<p><b>Construction Inspection –</b></p> <p><u>Assumptions</u>            Cumberland Avenue Reconstruction Phase II will be reconstructed utilizing one phase for ditch reconstruction and 3 phases for detour and maintenance of traffic purposes. The development of the construction inspection fee breakdown is based on analyzing the project in those 4 construction segments:</p> <ul style="list-style-type: none"> <li>a. Ditch Reconstruction (January 2012 – March 5, 2012)               <ul style="list-style-type: none"> <li>i. Mobilization</li> <li>ii. Utility relocation</li> <li>iii. Soil erosion and water quality protection items</li> <li>iv. Ditch clearing and grubbing &amp; tree removal</li> <li>v. Ditch excavation and grading</li> <li>vi. Miscellaneous construction that does not result in road closures (i.e. Sidewalks for pedestrian detour in Phase I, etc.).</li> </ul> </li> <li>b. MOT Phase 1 (March 5, 2012 – June 15, 2012)               <ul style="list-style-type: none"> <li>i. Road closure for the construction of the Manchester Roundabout with barricades and detour signs placed</li> <li>ii. Concrete removal and recycling</li> <li>iii. Soil Erosion and Water Quality Protection Items</li> <li>iv. Storm infrastructure, curbs, gutters, road grading, underdrains, aggregate and HMA placement, sidewalks and multi-use paths</li> <li>v. Wall / wingwall construction for ditch</li> <li>vi. Pipe video inspection</li> <li>vii. Fencing for ditch</li> <li>viii. Sign &amp; pavement marking placement</li> <li>ix. Lighting infrastructure placed</li> <li>x. Sodding, seeding and landscaping</li> </ul> </li> <li>c. MOT Phase II (June 15, 2012 – August 9, 2012)               <ul style="list-style-type: none"> <li>i. Road Closure from east of new Manchester Roundabout to Salisbury Street with barricades and detour signs placed</li> <li>ii. Concrete removal and recycling.</li> <li>iii. Soil erosion and water quality protection items</li> <li>iv. Storm infrastructure, curbs, gutters, road grading, underdrains, aggregate and HMA placement, sidewalks and multi-use paths.</li> <li>v. Pipe video inspection</li> <li>vi. Sign &amp; pavement marking placement</li> <li>vii. Lighting infrastructure placed</li> <li>viii. Sodding, seeding and landscaping</li> </ul> </li> <li>d. MOT Phase III (August 9, 2012 – October 31, 2012)               <ul style="list-style-type: none"> <li>i. Road closure for the construction of the Yeager Roundabout with barricades and detour signs placed</li> <li>ii. Duke utility relocation</li> <li>iii. Concrete removal and recycling</li> <li>iv. Soil erosion protection</li> </ul> </li> </ul>	<p>\$339,090</p> <p>T&amp;M</p>



- v. Storm infrastructure, curbs, gutters, road grading, underdrains, aggregate and HMA placement, sidewalks and multi-use paths
- vi. Wall construction in front of Peppermill
- vii. Pipe video inspection
- viii. Sign & pavement marking placement
- ix. Lighting infrastructure placed
- x. Sodding, seeding and landscaping
- e. Close Out (From 45 days after final documentation has been given to the Schneider Corporation from the contractor)
  - i. Finalize any remaining pay applications, change orders and compile daily's, pictures, reports, material records, and contractor quantities into final deliverables to be delivered to the West Lafayette City Engineering office.
  - ii. Determine contract bonuses given days chargeable vs. days used.
- f. Material Testing (As-Needed)
  - i. Alt and Witzig will be used to conduct testing on soil samples, concrete samples and asphalt samples. There fee is based on the size of the construction bid for this phase versus their historic charges for phase I of construction.
- g. Pay Apps, Change Orders, and PE oversight
  - i. Daily's will be compiled monthly for processing of pay applications
  - ii. Change Orders will be necessary due to unforeseen field conditions. The Schneider Corporation will provide a scope of work and fee agreed upon by the contractor ahead to be processed by the City of West Lafayette prior to commencement of work relating to the change order.
  - iii. The Schneider Corporation will provide a professional engineer on an as-needed basis for oversight and issues regarding design and redesign.
- h. Design Revisions per Field Conditions
  - i. Whenever warranted by unforeseen field condition and the need for a revised design on a pay item, The Schneider Corporation will compile the design plan changes and quantities necessary to make the field changes.
- i. Meetings, Meeting Minutes, Correspondence, Courier Services
  - i. The Schneider Corporation will compile meeting minutes and correspondence for all official communication on this project.
  - ii. Courier tasks will be completed by The Schneider Corporation.
- j. Shop Drawing Review
  - i. Shop Drawings provided by the contractor will be recorded and approved or rejected per review by The Schneider Corporation.

It should be noted that this information is based on historical information and our knowledge of the project prior to the selection of the contractor who will ultimately be responsible for the means & methods and schedule relative to the construction process. The information provided herein relative to the man-hour justification is an estimate.



Itemized Man-hour Justification

The course of the project will utilize a variety of Schneider Corporation's employees to meet the need of the construction engineering scope of work as provided on the attached supplemental services agreement. The following employee's, total hours anticipate on the job and their rates are as follows:

**Man-hour Justification:**

Task	Proposal Hours						TASK \$
	Project Manager	Project Engineer	Designer	Admin	Construction Inspector 2	Construction Inspector 1	
<b>Construction Inspection</b>							
Phase 1 Field Work (Inspector 1 = 49 days @ 8 Hrs. per day and 53 days @ 10 hours per day, Inspector 2 = 15 days at 10 hours per day)					150	922	\$ 82,544
Phase 2 Field Work (Inspector 1 = 9 days at 8 hours per day and 46 days at 10 hours per day, Inspector 2 = 15 days at 10 hours per day)					150	532	\$ 52,514
Phase 3 Field Work (Inspector 1 = 14 days at 8 hours per day and 69 days at 10 hours per day, Inspector 2 = 20 days at 10 hours per day)					200	802	\$ 77,154
Ditch Work and Utility Relocation Oversight (Inspector 1 = 37 days at 8 hours per day)						296	\$ 22,792
Pay Apps, CO's, Overall Oversight	275						\$ 31,350
Closeout (40 days @ 8 hours per day from time in which Contractor submits final paperwork)						320	\$ 24,640
Design Revisions per Field Conditions (RFI's)		60	60				\$ 11,880
Meetings, Meeting Minutes, Correspondence, Courier Services		40		160			\$ 13,360
Shop Drawing Review		80					\$ 8,800
Billable Hourly Rates	\$114	\$110	\$88	\$56	\$77	\$77	
Direct Costs (On-Site Mileage and Supplies)							\$ 1,586
Testing Costs							\$ 12,470
<b>I. Construction Inspection TOTAL</b>	<b>0</b>	<b>275</b>	<b>180</b>	<b>60</b>	<b>160</b>	<b>500</b>	<b>\$ 339,090</b>



Accepted by the City of West Lafayette Board of Works

By:

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John R. Dennis, Mayor Date

By:

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Judith C. Rhodes, Clerk of the Board Date

By:

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Sana G. Booker, Member Date

By:

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Bradley W. Marley, Member Date

By:

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Jonathan C. Speaker, Member Date

By:

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Elizabeth M. Stull, Member Date