



## AGENDA ITEM EXECUTIVE SUMMARY

Agenda Item:	APPROVAL OF IDOT “PRELIMINARY ENGINEERING SERVICES AGREEMENT FOR NON-MOTOR FUEL TAX FUNDS” FOR NORTH KAUTZ ROAD – TranSystems Corporation		
Presenter & Title:	Brian L. Schiber, P.E. City Engineer/Assistant Director of Public Works		
Date:	October 2, 2019		
<b>Please Check Appropriate Box:</b>			
<input checked="" type="checkbox"/>	Committee of the Whole Meeting	<input type="checkbox"/>	Special Committee of the Whole Meeting
<input checked="" type="checkbox"/>	City Council Meeting	<input type="checkbox"/>	Special City Council Meeting
<input type="checkbox"/>	Public Hearing	<input type="checkbox"/>	Other -
Associated Strategic Plan Goal/Objective: EMS-2			
Estimated Cost: \$199,601.97		Budgeted? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Other Funding? <input type="checkbox"/> Yes <input type="checkbox"/> No
<i>If “Other Funding,” please explain how the item will be funded: Fund Balance</i>			
<b>Executive Summary:</b>			
<p>This is a preliminary engineering study (Phase I) for the section of Kautz Road between State Street (IL Route 38) and North Avenue (IL Route 64) using the standardized IDOT form and methodologies. Staff anticipates submitting this project for STP grant funding in March of 2020, but in order to qualify for Surface Transportation Program (STP) grant funding, the project must have the Phase I study underway. The STP grant typically cover up to 75% of construction and construction engineering costs. This standardized form assists IDOT and KKCOM in evaluating the proposals for STP projects. If selected for funding, Phase II engineering and construction costs will be planned in future fiscal years. Staff anticipates using ~80% of the proposal (~\$160,000) during the current fiscal year and the balance (~\$40,000) in the coming fiscal year.</p> <p>Staff recommends approving the attached “Preliminary Engineering Services Agreement for Non-Motor Fuel Tax Funds” for Phase I design of the widening and reconstruction of Kautz Road to the most qualified consultant, TranSystems Corporation of Schaumburg, Illinois, in an amount not to exceed \$199,601.97. This proposal covers only the Phase I study necessary for the portion of Kautz Road within the corporate limits of the City of Geneva, and the City of St. Charles has their own similar proposal from TranSystems Corporation.</p>			
<b>Attachments:</b> <i>(please list)</i>			
<ul style="list-style-type: none"> <li>• Resolution</li> <li>• IDOT form BLR 05510 “Preliminary Engineering Services Agreement for Non-Motor Fuel Tax Funds”</li> </ul>			
<b>Recommendation / Suggested Action:</b> <i>(how item should be listed on agenda)</i>			
Recommend approval of resolution authorizing the City Administrator to execute the IDOT “Preliminary Engineering Services Agreement for Non-Motor Fuel Tax Funds” for North Kautz Road to TranSystems Corp. of Schaumburg, IL in the Not To Exceed amount of \$199,601.97.			

**RESOLUTION NO. 2019-; 3**

**RESOLUTION AUTHORIZING EXECUTION OF IDOT BLR 05510 “Preliminary Engineering Services Agreement for Non-Motor Fuel Tax Funds” with TranSystems Corporation for the North Kautz Road Improvements**

---

**BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF GENEVA, KANE COUNTY, ILLINOIS**, as follows:

**SECTION 1:** That the City Administrator is hereby authorized to execute, on behalf of the City of Geneva, a preliminary engineering services agreement form IDOT BLR 05510 with TranSystems Corporation in the form attached hereto as Exhibit “A”, relating to North Kautz Road improvements in the City of Geneva, IL for the amount not to exceed \$199,601.97.

**SECTION 2:** This Resolution shall become effective from and after its passage as in accordance with law.

**PASSED** by the City Council of the City of Geneva, Kane County, Illinois, this \_\_\_\_ day of \_\_\_\_\_, 2019

**AYES: \_\_ NAYS: \_\_ ABSENT: \_\_ ABSTAINING: \_\_ HOLDING OFFICE: \_\_**

Approved by me this \_\_\_\_ day of \_\_\_\_\_, 2019.

\_\_\_\_\_  
Mayor

ATTEST:

\_\_\_\_\_  
City Clerk

Municipality City of Geneva	<b>L O C A L  A G E N C Y</b>	 <b>Illinois Department of Transportation</b>	<b>C O N S U L T A N T</b>	Name TranSystems Corporation
Township Geneva				Address 1475 E. Woodfield Road Suite 600
County Kane County		Preliminary Engineering Services Agreement For Non-Motor Fuel Tax Funds		City Schaumburg
Section Kautz Road from Longest Drive north to Municipal Boundary of Geneva				State IL

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Non-Motor Fuel Tax Funds, allotted to the LPA ~~by the State of Illinois~~, under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely ~~or in part~~ to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

**Section Description**

Name   Kautz Road  

---

Route   N/A   Length   0.97   Mi.   5,100.00   FT (Structure No.   N/A   )

Termini   Longest Drive north to Municipal Boundary of Geneva  

Description:

Phase I Engineering Services to improve the Kautz Road corridor, in conjunction with the adjacent segment located within the City of St. Charles, to reconstruct and widen Kautz Road generally from north of Illinois Route 38 to south of Commerce Drive.

**Agreement Provisions**

**The Engineer Agrees,**

1. To perform or be responsible for the performance of the following engineering services for the LPA, in connection with the proposed improvements herein before described, and checked below:
  - a.  Make such detailed surveys as are necessary for the preparation of detailed roadway plans
  - b.  Make stream and flood plain hydraulic surveys and gather high water data, and flood histories for the preparation of detailed bridge plans.
  - c.  Make or cause to be made such soil surveys or subsurface investigations including borings and soil profiles and analyses thereof as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations are to be made in accordance with the current requirements of the DEPARTMENT.
  - d.  Make or cause to be made such traffic studies and counts and special intersection studies as may be required to furnish sufficient data for the design of the proposed improvement.
  - e.  Prepare Army Corps of Engineers Permit, **Kane/DuPage County Storm Water Permit**, Department of Natural Resources-Office of Water Resources Permit, Bridge waterway sketch, and/or Channel Change sketch, Utility plan and locations, and Railroad Crossing work agreements.
  - f.  Prepare Preliminary Bridge design and Hydraulic Report, (including economic analysis of bridge or culvert types) and high water effects on roadway overflows and bridge approaches.
  - g.  Make complete general and detailed plans, special provisions, proposals and estimates of cost and furnish the LPA with **one (1) copy of each document in both hardcopy and electronic format**. Additional copies of any or all documents, if required, shall be furnished to the LPA by the ENGINEER at the ENGINEER's actual cost for reproduction.
  - h.  Furnish the LPA with survey and drafts in **duplicate** of all necessary right-of-way dedications, construction easement and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.
  - i.  Assist the LPA in the tabulation and interpretation of the contractors' proposals

- j.  Prepare the necessary environmental documents in accordance with the procedures adopted by the DEPARTMENT's Bureau of Local Roads & Streets.
  - k.  Prepare the Project Development Report when required by the DEPARTMENT.
  - l.  [Services as included and/or defined in the attached Scope of Services.](#)
2. That all reports, plans, plats and special provisions to be furnished by the ENGINEER pursuant to the AGREEMENT, will be in accordance with current standard specifications and policies [of the LPA](#) ~~of the DEPARTMENT~~. It is being understood that all such reports, plats, plans and drafts shall, before being finally accepted, be subject to approval by the LPA ~~and the DEPARTMENT~~.
  3. To attend conferences at any reasonable time when requested to do so by representatives of the LPA ~~or the Department~~.
  4. In the event plans or surveys are found to be in error during construction of the SECTION and revisions of the plans or survey corrections are necessary, the ENGINEER agrees that the ENGINEER will perform such work without expense to the LPA, even though final payment has been received by the ENGINEER. The ENGINEER shall give immediate attention to these changes so there will be a minimum delay to the CONTRACTOR.
  5. That basic survey notes and sketches, charts, computations and other data prepared or obtained by the ENGINEER pursuant to this AGREEMENT will be made available, upon request, to the LPA ~~or the DEPARTMENT~~ without cost and without restriction or limitations as to their use.
  6. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will show the ENGINEER's professional seal where such is required by law.

**The LPA Agrees,**

1. ~~To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT according to the following method indicated by a check mark:~~
  - a.  A sum of money equal to \_\_\_\_\_ percent of the awarded contract cost of the proposed improvement as approved by the DEPARTMENT.
  - b.  A sum of money equal to the percent of the awarded contract cost for the proposed improvement as approved by the DEPARTMENT based on the following schedule:

Schedule for Percentages Based on Awarded Contract Cost

Awarded Cost	Percentage Fees	
Under \$50,000	_____	(see note)
	_____	%
	_____	%
	_____	%

Note: Not necessarily a percentage. Could use per diem, cost-plus or lump sum.

2. To pay for all services rendered in accordance with this AGREEMENT at the actual cost of performing such work plus    percent to cover profit, overhead and readiness to serve - "actual cost" being defined as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at the ENGINEER's actual cost. Subject to the approval of the LPA, the ENGINEER may sublet all or part of the services provided in section 1 of the ENGINEER AGREES. If the ENGINEER sublets all or part of this work, the LPA will pay the cost to the ENGINEER plus an additional service charge of up to five (5) percent.

"Cost to Engineer" to be verified by furnishing the LPA ~~and the DEPARTMENT~~ copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed. **\*See the CECS**

**The Total Not-to-Exceed Contract Amount shall be \$199,601.97**

3. That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made as soon as practicable after the services have been performed. ~~in accordance with the following schedule:~~
- ~~a. Upon completion of detailed plans, special provisions, proposals and estimate of cost - being the work required by section 1 of the ENGINEER AGREES - to the satisfaction of the LPA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost.~~
  - ~~b. Upon award of the contract for the improvement by the LPA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above.~~

By Mutual agreement, partial payments, ~~not to exceed 90 percent of the amount earned~~, may be made from time to time as the work progresses.

4. That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in sections 1 and 3 of the ENGINEER AGREES and prior to the completion of such services, the LPA shall reimburse the ENGINEER for the ENGINEER's actual costs plus 0 percent incurred up to the time the ENGINEER is notified in writing of such abandonment - "actual cost" being defined as in paragraph 2 of the LPA AGREES.
5. That, should the LPA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of the ENGINEER AGREES, ~~after they have been approved by the DEPARTMENT~~, the LPA will pay the ENGINEER for such changes on the basis of actual cost plus \* percent to cover profit, overhead and readiness to serve - "actual cost" being defined as in paragraph 2 of the LPA AGREES. It is understood that "changes" as used in this paragraph shall in no way relieve the ENGINEER of the ENGINEER's responsibility to prepare a complete and adequate set of plans and specifications.

#### **It is Mutually Agreed,**

1. That any difference between the ENGINEER and the LPA concerning their interpretation of the provisions of this Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the ENGINEER, one member appointed by the LPA and a third member appointed by the two other members for disposition and that the committee's decision shall be final.
2. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all surveys, permits, agreements, preliminary bridge design & hydraulic report, drawings, specifications, partial and completed estimates and data, if any from traffic studies and soil survey and subsurface investigations with the understanding that all such material becomes the property of the LPA. The ENGINEER shall be paid for any services completed and any services partially completed in accordance with section 4 of the LPA AGREES.
3. That if the contract for construction has not been awarded one year after the acceptance of the plans by the LPA ~~and their approval by the DEPARTMENT~~, the LPA will pay the ENGINEER the balance of the engineering fee due to make 100 percent of the total fees due under this AGREEMENT, based on the estimate of cost as prepared by the ENGINEER and approved by the LPA ~~and the DEPARTMENT~~.
4. That the ENGINEER warrants that the ENGINEER has not employed or retained any company or person, other than a bona fide employee working solely for the ENGINEER, to solicit or secure this contract, and that the ENGINEER's has not paid or agreed to pay any company or person, other than a bona fide employee working solely for the ENGINEER, any fee, commission, percentage, brokerage fee, gifts or any other consideration, contingent upon or resulting from the award or making of this contract. For Breach or violation of this warranty the LPA shall have the right to annul this contract without liability.

IN WITNESS WHEREOF, the parties have caused the AGREEMENT to be executed in triplicate counterparts, each of which shall be considered as an original by their duly authorized officers.

Executed by the LPA:

ATTEST: \_\_\_\_\_ of the  
 \_\_\_\_\_  
 (Municipality/Township/County)  
 State of Illinois, acting by and through its  
 \_\_\_\_\_  
 City Council  
 By \_\_\_\_\_  
 \_\_\_\_\_  
 City Clerk  
 By \_\_\_\_\_  
 \_\_\_\_\_  
 City Administrator  
 Title \_\_\_\_\_

Executed by the ENGINEER:

ATTEST: \_\_\_\_\_  
 \_\_\_\_\_  
 TranSystems Corporation  
 Engineering Firm  
 1475 East Woodfield Road Suite 600  
 Street Address  
 Schaumburg, IL 60173  
 City, State, Zip  
 By \_\_\_\_\_  
 \_\_\_\_\_  
 Title \_\_\_\_\_

Note: Three (3) Original Executed Contracts – (2) City of Geneva; (1) Consultant

## **SCOPE OF WORK NARRATIVE AND ESTIMATE OF EFFORT**

**Phase I Design Engineering Services**  
**Kautz Road Reconstruction and Widening Project**  
**Cities of Geneva and St. Charles**  
**SCOPE OF WORK NARRATIVE AND ESTIMATE OF EFFORT**

This document presents the anticipated scope of work and expected effort associated with completion of Phase I Design Engineering Services as described in the Request for Qualifications (RFQ) dated July 31, 2019 for the improvements associated with the Kautz Road Reconstruction and Widening Project located in the Cities of Geneva and St. Charles in Kane County, Illinois. The general scope of work is to complete Phase I engineering services for this corridor. It includes specific work identified as necessary and required by the Cities in the RFQ and federal requirements as defined by the IDOT Bureau of Local Roads and Streets (BLRS) Manual. It assumes the report processing level to be a Categorical Exclusion. This work will include data collection, data analysis, alternatives analysis, detailed engineering on the preferred alternative, and final reports, concurrent with environmental studies and public involvement activities.

The project team includes TranSystems (TS) as the lead consulting engineering firm. TranSystems will utilize the following subconsultants to provide support services as identified below.

- Huff & Huff, Inc. (HH)
- WBK Engineering, LLC (WBK)
- Kaskaskia Engineering Group, LLC (KEG) – *DBE Firm*

The Cities of Geneva and St. Charles are serving as dual lead agencies for this project. Close coordination will also occur with the Illinois Department of Transportation (IDOT) and the Federal Highway Administration (FHWA) given that federal funding is anticipated to be used for construction of this project. It is anticipated that this Phase I study will be documented via a Project Report and processed as a Federal (former Group II) or State (former Group I) Approved Categorical Exclusion. Coordination will also be required with Kane County, the DuPage Airport, the Union Pacific Railroad, local residents, commercial properties, business associations and other developers, business owners and other governmental agencies as necessary.

**TASK 1. DATA COLLECTION AND FIELD INVESTIGATION ~~(484 HOURS)~~ (344 HOURS)**

Task 1.1. Review of As-Built, Subdivision Plans and Existing Utility Investigations performed by the Cities ~~(12 hours – TS; 12 hours – KEG)~~ (8 hours – TS; 8 hours – KEG):

- Full topographic survey. Cross-sections to be surveyed at least every 50 feet.  
~~(256 hours – WBK)~~ (232 hours – WBK)
- Limits to include entire area within the Right-Of-Way plus up to the front of the houses on either side of the street.
- For side streets, a minimum of 100' outside of the intersection shall be surveyed.
- All features within the above area shall be surveyed, including but not limited to utilities, sidewalk, driveways, trees, landscaping, property corners, lighting, etc.
- All material types shall be noted.
- Survey all high and low points within survey limits.
- Partial sections required at all driveways.

- For utility structures all pipe information include inverts, pipe material, etc. shall be surveyed and noted on the base drawing.
- Complete base drawing preparation in Microstation format.  
(120 hours – WBK) (80 hours – WBK)
- Establishing the existing Right-Of-Way.  
(76 hours – WBK) (12 hours – WBK; Desktop verification only, detailed ROW survey to be completed in Phase II)
- All existing field data and electronic files shall be submitted to the Cities.
- The Cities will provide a copy of all available information regarding existing utilities, old roadway plans, easement information and plat information.

Task 1.2. JULIE Design Locate. (8 hours – TS) (4 hours – TS)

**TASK 2. ENVIRONMENTAL COORDINATION & PLANNING DOCUMENTS (111 HOURS) (100 HOURS)**

This scope of work shall include, at a minimum:

Task 2.1. Submittal of Environmental Survey Request (ESR) to the Illinois Department of Transportation (IDOT) in accordance with procedures for federally funded projects coordinated through IDOT.

(16 hours – TS) (16 hours – TS)

- Biological and Cultural clearances as required per IDOT.
- Environmental review of the project corridor.

Task 2.2. PESA Report for special waste. (45 hours – HH) (40 hours – HH)

Task 2.3. Wetland Delineation, as necessary. (50 hours – HH) (44 hours – HH)

Task 2.4. Any additional scope as deemed necessary for IDOT approval. (0 hours) (0 hours)

**TASK 3. GEOTECHNICAL AND PAVEMENT DESIGN (195 HOURS) (12 HOURS)**

Task 3.1. Soil and Pavement investigations. (179 hours – RE) (0 hours; To be completed in Phase II)

Task 3.2. Design of proposed pavement cross section. (16 hours – TS) (12 hours – TS)

**TASK 4. PROJECT ALTERNATIVES AND COST ANALYSIS (90 HOURS) (80 HOURS)**

Task 4.1. Identification of potential project alternatives and costs.

(36 hours – TS; 42 hours – KEG) (64 hours – TS; 4 hours – KEG) – Hours reallocated to streamline effort with one firm in a lead role and the other available for support and collaboration.

Task 4.2. Preparation of a Phase I engineer's estimate of probable construction cost.

(10 hours – TS; 2 hours – KEG) (8 hours – TS; 4 hours – KEG)

**TASK 5. LOCATION DRAINAGE STUDY (498 HOURS) (244 HOURS)**

Task 5.1. Evaluation of existing and proposed drainage system, including conversion from an open ditch drainage system to an urban storm sewer design.

(40 hours – TS; 458 hours – WBK) (40 hours – TS; 204 hours – WBK)

**TASK 6. ROADWAY GEOMETRICS (~~788 HOURS~~) (516 HOURS)**

Task 6.1. Preparation of preliminary and final geometry including proposed horizontal and vertical geometry, templated existing/proposed cross sections and a right-of-way/easement assessment. Note that verbal ROW/Easement dedication from the Airport has been granted.

~~(168 hours – TS; 356 hours – KEG)~~ (80 hours – TS; 268 hours – KEG) – Hours reallocated to streamline effort with one firm in a lead role and the other available for support and collaboration.

Task 6.2. Preliminary plan and profile sheets with existing and proposed geometry.

~~(40 hours – TS; 144 hours – KEG)~~ (48 hours – TS; 96 hours – KEG)

Task 6.3. Development of typical sections. ~~(60 hours – TS; 20 hours – KEG)~~ (8 hours – TS; 16 hours – KEG)

**TASK 7. TRAFFIC MAINTENANCE ANALYSIS (~~320 HOURS~~) (228 HOURS)**

Task 7.1. Evaluation of construction staging and recommendations, including preferred methodology for maintaining traffic flow and access during construction.

~~(48 hours – TS; 72 hours – KEG)~~ (60 hours – TS; 8 hours – KEG) – Hours reallocated to streamline effort with one firm in a lead role and the other available for support and collaboration.

Task 7.2. Development of typical stage construction cross sections and plan exhibits.

~~(86 hours – TS; 114 hours – KEG)~~ (160 hours – TS; 0 hours – KEG) – Hours reallocated to streamline effort with one firm in a lead role and the other available for support and collaboration.

**TASK 8. PROJECT DEVELOPMENT REPORT (~~240 HOURS~~) (240 HOURS)**

Task 8.1. Preparation of PDR for approval by IDOT, including all supporting exhibits.

~~(164 hours – TS; 76 hours – KEG)~~ (188 hours – TS; 52 hours – KEG)

**TASK 9. STP GRANT FUNDING SUBMITTAL (~~32 HOURS~~) (32 HOURS)**

Task 9.1. Development of complete grant application and submittal. ~~(32 hours – TS)~~ (32 hours – TS)

**TASK 10. ADDITIONAL CONTRACT SCOPE AS NECESSARY (~~650 HOURS~~) (354 HOURS)**

Task 10.1. Project Coordination Meetings. ~~(80 hours – TS; 6 hours – KEG)~~ (60 hours – TS; 6 hours – KEG) – Assumes six (6) meetings to be attended by two persons from TS, including travel time, preparation of supporting materials prior to the meeting, and composing minutes after the meeting; includes attendance by one person from KEG.

Task 10.2. Public Meeting – Attendance at two public meetings. (One in St. Charles and one in Geneva).

~~(42 hours – TS; 78 hours – KEG)~~ (40 hours – TS; 40 hours – KEG)

Task 10.3. Quality Control and Assurance. ~~(144 hours – TS)~~ (40 hours – TS)

Task 10.4. Noise Wall Analysis (If required). ~~(0 hours)~~ (0 hours)

- It is anticipated that the project will not be classified as a Type I project per BDE Page 26-6.4 because the widening is for a bi-directional turn lane, not an additional through lane. As such, noise analysis is excluded from this scope and no hours have been included.

Task 10.5. The Consultant is required to determine the complete contract scope.

- Conduct Site Visit / Field Checks. ~~(24 hours – TS)~~ **(16 hours – TS)**
- Crash Summary and Analysis. ~~(56 hours – TS)~~ **(56 hours – TS)**
- Traffic Data Analysis, Design Year ADT Projections, and CMAP Coordination.  
~~(12 hours – TS)~~ **(12 hours – TS)**
- ADA Ramp Detailed Design and Exhibits. ~~(112 hours – TS)~~ **(0 hours; To be completed in Phase II)**
- Preparation of Design Variance Summaries and IDOT Coordination for Approvals.  
~~(24 hours – TS)~~ **(24 hours – TS)**
- Project Management and Administration, with separate monthly invoicing and project status reports prepared for each City. ~~(36 hours – TS; 36 hours – KEG)~~ **(36 hours – TS; 24 hours – KEG)**

**TASK 11. ITEMS TO BE OMITTED FROM PROJECT SCOPE**

Task 11.1. Phase II Design.

Task 11.2. Permitting.

Task 11.3. Bidding Assistance.

Task 11.4. Phase III Construction Services, Including cut sheet approvals, RFIs, etc.

**Phase I Design Engineering Services  
Kautz Road Reconstruction and Widening Project  
Cities of Geneva and St. Charles**

**SUMMARY OF MAN-HOUR ESTIMATE**

TASK		FIRM*								Total Man-Hours
		TS		HH		WBK		KEG		
		GEN	STC	GEN	STC	GEN	STC	GEN	STC	
Task 1	Data Collection and Field Investigation	8	4			218	106	6	2	344
Task 2	Environmental Coordination & Planning Documents	11	5	57	27					100
Task 3	Geotechnical and Pavement Design	8	4							12
Task 4	Project Alternatives and Cost Analysis	49	23					6	2	80
Task 5	Location Drainage Study	27	13			137	67			244
Task 6	Roadway Geometrics	94	42					258	122	516
Task 7	Traffic Maintenance Analysis	150	70					6	2	228
Task 8	Project Development Report	128	60					35	17	240
Task 9	STP Grant Funding Submittal	21	11							32
Task 10	Additional Contract Scope As Necessary	192	92					47	23	354
<b>TOTAL</b>		<b>1012</b>		<b>84</b>		<b>528</b>		<b>526</b>		<b>2,150</b>
		<b>47.1%</b>		<b>3.9%</b>		<b>24.6%</b>		<b>24.5%</b>		

\*Firm Names

TS     TranSystems (Prime)  
 HH     Huff & Huff, Inc. (GZA)  
 WBK    WBK Engineering, LLC  
 KEG     Kaskaskia Engineering Group, LLC - *DBE Firm*

**EXHIBIT A – PRELIMINARY ENGINEERING**



**TRANSYSTEMS CECS (PRIME)**

## PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME TranSystems Corporation  
 PRIME/SUPPLEMENT Prime  
 Prepared By Jeff Stanko

DATE 9/6/2019  
 PTB-ITEM# 180-1

CONTRACT TERM 14 MONTHS  
 START DATE 10/16/2019  
 RAISE DATE 4/18/2020  
 END DATE 12/15/2020

OVERHEAD RATE 151.94%  
 COMPLEXITY FACTOR 0  
 % OF RAISE 3%

### ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	10/16/2019	4/18/2020	6	42.86%
1	4/19/2020	12/18/2020	8	58.86%

---

The total escalation = 1.71%

## PAYROLL RATES

**FIRM NAME**  
**PRIME/SUPPLEMENT**  
**PTB-ITEM #**

TranSystems Corporatio **DATE**  
Prime  
180-1

9/6/2019

**ESCALATION FACTOR** **1.71%**

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Engineer 5 (E5)	\$70.00	\$70.00
Engineer 4 (E4)	\$69.88	\$70.00
Engineer 3 (E3)	\$58.18	\$59.18
Engineer 2 (E2)	\$44.17	\$44.93
Engineer 1 (E1)	\$35.09	\$35.69
Planner 5 (P5)	\$60.00	\$60.00
Planner 4 (P4)	\$60.00	\$60.00
Planner 3 (P3)	\$44.39	\$45.15
Architect 5 (AR5)	\$60.00	\$60.00
Architect 4 (AR4)	\$60.00	\$60.00
Architect 3 (AR3)	\$57.31	\$58.29
Architect 2 (AR2)	\$37.57	\$38.21
Architect 1 (AR1)	\$31.76	\$32.30
Environmental Scientist 4 (SC4)	\$60.00	\$60.00
Industry Specialist 3 (IS3)	\$53.18	\$54.09
Industry Specialist 2 (IS2)	\$39.14	\$39.81
Construction Services 4 (CS4)	\$52.50	\$53.40
Construction Services 3 (CS3)	\$40.50	\$41.19
Technician 5 (T5)	\$60.00	\$60.00
Technician 3 (T3)	\$36.00	\$36.62
Technician 1 (T1)	\$20.57	\$20.92
Administrative 3 (A3)	\$49.44	\$50.29
Administrative 2 (A2)	\$38.07	\$38.72
Administrative 1 (A1)	\$24.70	\$25.12

### AVERAGE HOURLY PROJECT RATES

FIRM TranSystems Corporation  
 PTB-ITEM# 180-1  
 PRIME/SUPPLEMENT Prime

DATE 9/6/2019

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Data Collection & Field In			Enviro Coord & Plan Docs			Geotech & Pvmt Design			Project Alts & Cost Analysis			Location Drainage Study		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Engineer 5 (E5)	70.00	14.0	2.03%	1.42															
Engineer 4 (E4)	70.00	73.0	10.61%	7.43										3	6.12%	4.29	3	11.11%	7.78
Engineer 3 (E3)	59.18	104.0	15.12%	8.95										8	16.33%	9.66	5	18.52%	10.96
Engineer 2 (E2)	44.93	177.0	25.73%	11.56	3	37.50%	16.85	3	27.27%	12.25	3	37.50%	16.85	22	44.90%	20.17	11	40.74%	18.30
Engineer 1 (E1)	35.69	250.0	36.34%	12.97	5	62.50%	22.31	8	72.73%	25.96	5	62.50%	22.31	16	32.65%	11.65	8	29.63%	10.58
Planner 5 (P5)	60.00	0.0																	
Planner 4 (P4)	60.00	0.0																	
Planner 3 (P3)	45.15	0.0																	
Architect 5 (AR5)	60.00	0.0																	
Architect 4 (AR4)	60.00	0.0																	
Architect 3 (AR3)	58.29	0.0																	
Architect 2 (AR2)	38.21	0.0																	
Architect 1 (AR1)	32.30	0.0																	
Environmental Scientist 4 (S)	60.00	0.0																	
Industry Specialist 3 (IS3)	54.09	0.0																	
Industry Specialist 2 (IS2)	39.81	0.0																	
Construction Services 4 (CS)	53.40	0.0																	
Construction Services 3 (CS)	41.19	0.0																	
Technician 5 (T5)	60.00	0.0																	
Technician 3 (T3)	36.62	0.0																	
Technician 1 (T1)	20.92	54.0	7.85%	1.64															
Administrative 3 (A3)	50.29	0.0																	
Administrative 2 (A2)	38.72	16.0	2.33%	0.90															
Administrative 1 (A1)	25.12	0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		688.0	100%	\$44.87	8.0	100.00%	\$39.15	11.0	100%	\$38.21	8.0	100%	\$39.15	49.0	100%	\$45.77	27.0	100%	\$47.62



## **TRANSYSTEMS DIRECT COSTS (PRIME)**



**COMPANY NAME:** TranSystems Corporation  
**PTB NUMBER:** Kautz Road Phase I  
**TODAY'S DATE:** 9/6/2019

ITEM	ALLOWABLE	UTILIZE W.O. ONLY	QUANTITY J.S. ONLY	CONTRACT RATE	TOTAL
------	-----------	----------------------	-----------------------	------------------	-------

J.S. = Job Specific

**Kautz Road Widening & Reconstruction - Phase I**  
**City of Geneva**  
**Direct Cost Summary**

				<b><u>Total</u></b>
<b>1</b>	<b><u>Data Collection &amp; Field Inv</u></b>			
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day	\$ -
	Mileage	0 trips @	50 miles @ \$ 0.580 per mile	\$ -
	Letter Size Copies	25 sheets @	2 copies @ \$ 0.10 per sheet      1 submittals	\$ 5.00
	Color Copies	10 sheets @	2 copies @ \$ 1.00 per sheet      1 submittals	\$ 20.00
	Full Size Copies	10 sheets @	2 copies @ \$ 0.80 per sheet      1 submittals	\$ 16.00
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery	\$ -
			Subtotals	<u>\$ 41.00</u>
<b>2</b>	<b><u>Env Coord &amp; Plan Docs</u></b>			
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day	\$ -
	Mileage	0 trips @	50 miles @ \$ 0.580 per mile	\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet      0 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet      0 submittals	\$ -
	Full Size Copies	10 sheets @	2 copies @ \$ 0.80 per sheet      1 submittals	\$ 16.00
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery	\$ -
			Subtotals	<u>\$ 16.00</u>
<b>3</b>	<b><u>Geotech &amp; Pvmt Design</u></b>			
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day	\$ -
	Mileage	0 trips @	50 miles @ \$ 0.580 per mile	\$ -
	Letter Size Copies	10 sheets @	2 copies @ \$ 0.10 per sheet      1 submittals	\$ 2.00
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet      0 submittals	\$ -
	Full Size Copies	0 sheets @	0 copies @ \$ 0.80 per sheet      0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery	\$ -
			Subtotals	<u>\$ 2.00</u>
<b>4</b>	<b><u>Project Alts &amp; Cost Analysis</u></b>			
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day	\$ -
	Mileage	0 trips @	50 miles @ \$ 0.580 per mile	\$ -
	Letter Size Copies	25 sheets @	2 copies @ \$ 0.10 per sheet      2 submittals	\$ 10.00
	Color Copies	10 sheets @	2 copies @ \$ 1.00 per sheet      2 submittals	\$ 40.00
	Full Size Plans	36 sheets @	5 copies @ \$ 0.80 per sheet      2 submittals	\$ 288.00
	Reduced Size Plans	36 sheets @	5 copies @ \$ 0.20 per sheet      2 submittals	\$ 72.00
	FedEx / Messenger		4 deliveries @ \$ 20.00 per delivery	\$ 80.00
			Subtotals	<u>\$ 490.00</u>
<b>5</b>	<b><u>Location Drainage Study</u></b>			
	Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day	\$ -
	Mileage	0 trips @	0 miles @ \$ 0.580 per mile	\$ -
	Letter Size Copies	0 sheets @	0 copies @ \$ 0.10 per sheet      1 submittals	\$ -
	Color Copies	0 sheets @	0 copies @ \$ 1.00 per sheet      1 submittals	\$ -
	Full Size Plans	0 sheets @	0 copies @ \$ 0.80 per sheet      0 submittals	\$ -
	Reduced Size Plans	0 sheets @	0 copies @ \$ 0.20 per sheet      0 submittals	\$ -
	FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery	\$ -
			Subtotals	<u>\$ -</u>

**Kautz Road Widening & Reconstruction - Phase I**  
**City of Geneva**  
**Direct Cost Summary**

				<u><b>Total</b></u>
<b>6 <u>Roadway Geometrics</u></b>				
Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
Mileage	0 trips @	50 miles @ \$ 0.580 per mile		\$ -
Letter Size Copies	25 sheets @	2 copies @ \$ 0.10 per sheet	2 submittals	\$ 10.00
Color Copies	10 sheets @	2 copies @ \$ 1.00 per sheet	2 submittals	\$ 40.00
Full Size Plans	0 sheets @	0 copies @ \$ 0.80 per sheet	2 submittals	\$ -
Reduced Size Plans	0 sheets @	0 copies @ \$ 0.20 per sheet	2 submittals	\$ -
FedEx / Messenger		0 deliveries @ \$ 20.00 per delivery		\$ -
		Subtotals		<u>\$ 50.00</u>
<b>7 <u>Traffic Maint Analysis</u></b>				
Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
Mileage	0 trips @	0 miles @ \$ 0.580 per mile		\$ -
Letter Size Copies	25 sheets @	2 copies @ \$ 0.10 per sheet	2 submittals	\$ 10.00
Color Copies	10 sheets @	2 copies @ \$ 1.00 per sheet	2 submittals	\$ 40.00
Full Size Plans	6 sheets @	5 copies @ \$ 0.80 per sheet	2 submittals	\$ 48.00
Reduced Size Plans	6 sheets @	5 copies @ \$ 0.20 per sheet	2 submittals	\$ 12.00
FedEx / Messenger		4 deliveries @ \$ 20.00 per delivery		\$ 80.00
		Subtotals		<u>\$ 190.00</u>
<b>8 <u>Project Developmt Report</u></b>				
Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
Mileage	0 trips @	50 miles @ \$ 0.580 per mile		\$ -
Letter Size Copies	50 sheets @	10 copies @ \$ 0.10 per sheet	3 submittals	\$ 150.00
Color Copies	25 sheets @	10 copies @ \$ 1.00 per sheet	3 submittals	\$ 750.00
Reduced Size Plans	50 sheets @	10 copies @ \$ 0.20 per sheet	3 submittals	\$ 300.00
FedEx / Messenger		10 deliveries @ \$ 20.00 per delivery		\$ 200.00
		Subtotals		<u>\$ 1,400.00</u>
<b>9 <u>STP Grant Funding Sbmt</u></b>				
Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
Mileage	0 trips @	0 miles @ \$ 0.580 per mile		\$ -
Letter Size Copies	10 sheets @	5 copies @ \$ 0.10 per sheet	1 submittals	\$ 5.00
Color Copies	5 sheets @	5 copies @ \$ 1.00 per sheet	1 submittals	\$ 25.00
Reduced Size Plans	5 sheets @	5 copies @ \$ 0.20 per sheet	1 submittals	\$ 5.00
FedEx / Messenger		1 deliveries @ \$ 20.00 per delivery		\$ 20.00
		Subtotals		<u>\$ 55.00</u>
<b>10 <u>Addtl Scope as Necessary</u></b>				
Vehicle Days	0 vehicle @	0 days @ \$ 65.00 per day		\$ -
Mileage	20 trips @	50 miles @ \$ 0.580 per mile		\$ 580.00
Letter Size Copies	5 sheets @	10 copies @ \$ 0.10 per sheet	12 submittals	\$ 60.00
Color Copies	2 sheets @	200 copies @ \$ 1.00 per sheet	2 submittals	\$ 800.00
Full Size Plans	10 sheets @	10 copies @ \$ 0.80 per sheet	8 submittals	\$ 640.00
Reduced Size Plans	5 sheets @	10 copies @ \$ 0.20 per sheet	8 submittals	\$ 80.00
FedEx / Messenger		5 deliveries @ \$ 20.00 per delivery		\$ 100.00
Traffic Counts		1 lump sum @ \$ 10896.00		\$ 10,896.00
Public Meeting Facility & Equip		Cities to Secure Facility and Equipment		\$ -
Legal Notices & Advertising		2 notices @ \$ 250.00 per notice		<u>\$ 500.00</u>
		Subtotals		<u>\$ 13,656.00</u>
<b>TOTAL</b>				<b>\$ 15,900.00</b>
<b>68% Applicable to Geneva</b>				<b>\$ 10,800.00</b>

September 5, 2019

Mr. Matt Baldwin, PE, PTOE  
Project Manager  
Kaskaskia Engineering Group, Ltd.  
477 S 3<sup>rd</sup> Street  
Suite 270  
Geneva, IL 60134  
via e-mail: mbaldwin@kaskaskiaeng.com

Re: Agreement for Professional Services  
Traffic Data Collection – Turning Movement Counts  
Kautz Road Extension  
Kane County, IL  
GHA Proposal No. 2019.D225

Dear Matt:

Gewalt Hamilton Associates, Inc., (GHA) is pleased to submit our proposal for traffic data collection services for the above referenced project.

Our proposal is based on GHA's understanding of the project based on the information received from your office.

If our proposal is acceptable, please sign and return one complete copy to our office. Should you have any questions or if we can be of additional assistance, please feel free to contact me directly at (847) 821-6222.

Sincerely,  
Gewalt Hamilton Associates, Inc.



Daniel P. Brinkman, PE, PTOE  
Assistant Director of Transportation Services  
dbrinkman@gha-engineers.com

CC: Art Penn - Director – Data Collection Division

Encl.: GHA Proposal No. 2019.D225 Kaskaskia - Kautz Rd.docx

Agreement for Professional Services  
Traffic Data Collection – Turning Movement Counts  
Kautz Road Extension  
Kane County, IL  
GHA Proposal No. 2019.D225

Kaskaskia Engineering Group, Ltd. (Client), having an address of 477S 3<sup>rd</sup> Street, Suite 270 Geneva, IL 60134 and Gewalt Hamilton Associates, Inc. (GHA), 625 Forest Edge Drive, Vernon Hills, IL 60061, agree and contract as follows:

**I. Project Understanding**

Client is a sub-consultant for a study of widening Kautz Road and as part of their engagement requires eight (8) Turning Movement Counts (TMC's) and one Pedestrian Count along Kautz Road between IL Rte 38 (W Roosevelt Road and Commerce Drive in Kane County Illinois for a Typical Weekday.

**II. Traffic Data Collection Services**

GHA will provide TMC's at the following locations based on the map provided by Client. Please refer to the attached Exhibit A – Location Map:

**A. TMC's**

24 -hour turning movement counts will be conducted at Kautz Road and:

1. IL Rte 38
2. Prairie Landing Golf Club access
3. Averill Road
4. Pillsbury Court
5. Geneva Drive
6. Bonnie Street
7. Toni Street
8. Commerce Drive

*Collection Details*

- Weekday (T, W, or TH)
- 12:00 Midnight to 12:00 Midnight
- 24 hours
- Lights (P) / Mediums (SU) / Articulated Trucks (MU)

*Deliverables*

- Standard Miovision PDF report
- Excel File

*Video files available if a portable storage drive is provided*

B. Pedestrian Count

24 -hour pedestrian movement counts will be conducted at Kautz Road and:

1. Illinois Prairie Path

*Collection Details*

- Weekday (T, W, or TH)
- Midnight to Midnight
- 24 hours
- Pedestrians by Direction

*Deliverables*

- Standard Miovision PDF report
- Excel File

*Video files available if a portable storage drive is provided*

III. Project Schedule

GHA will schedule the work within two weeks of written authorization to proceed, weather permitting.

Data will be processed with 72-hour turnaround in Miovision. Once processed, the data will be available to the Client generally within 48-hours.

IV. Key Personnel

Mr. Dan Brinkman, PE, PTOE Assistant Director of Transportation Service will serve as the Project Manager. Mr. Arthur J. Penn, P.E., Director of Data Collection will oversee the field and office efforts. Mr. Penn has managed numerous similar data collection efforts. He will be assisted by additional professional and technical staff.

V. Compensation for Services

GHA proposes to complete the above work for a lump sum fee as outlined below.

Task	Fee
TMC - 8 locations x 24 hours ( <del>\$63</del> / \$48/hr. (bulk discount))	\$9,216.00
Pedestrian - 1 location x 24 hours (\$70/hr.)	\$1,680.00
<b>Total Lump Sum Fee</b>	<b>\$10,896.00</b>

The proposed fee includes all necessary equipment and deployment. Reimbursable expenses, including items such as photos, postage, messenger services, printing, mileage, etc., are included in the fee indicated above. An invoice will be submitted upon completion of the study and will detail charges made against the project and services provided.

Please note that our proposal assumes the study will be completed within one deployment. If multiple deployments are requested, an adjustment to the fee will be necessary. GHA will provide the Client a written estimate of any additional fees prior to commencing with such work.

Any additional services requested and authorized by the Client will be billed on a time-and-materials (T&M) basis in accordance with the attached *GHA Hourly Rates*.

## VI. Authorization

By signing below, you indicate your acceptance of this Agreement in its entirety.

Gewalt Hamilton Associates, Inc.

Kaskaskia Engineering Group, Ltd.



\_\_\_\_\_  
Daniel P. Brinkman, PE, PTOE  
Assistant Director of Transportation Services

\_\_\_\_\_  
Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

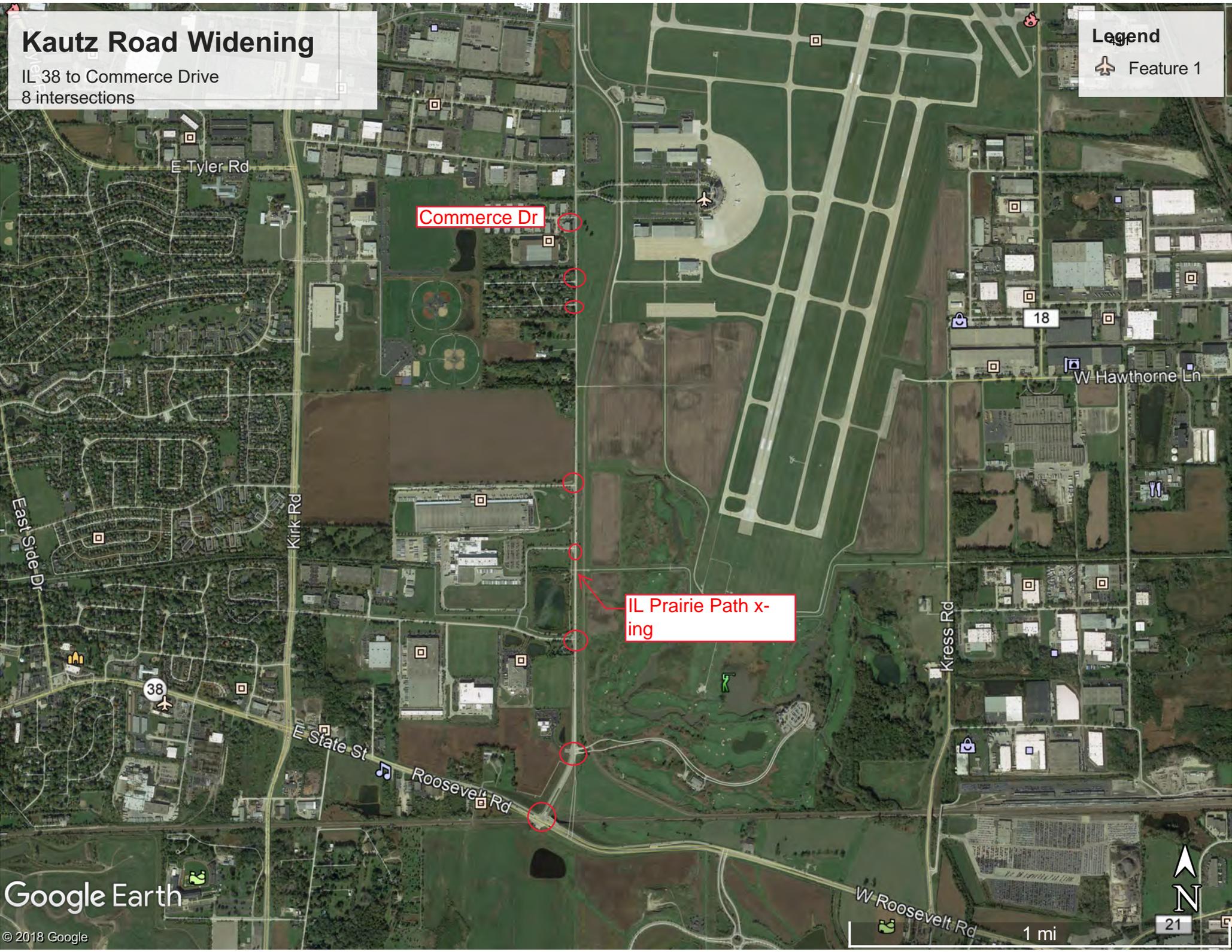
Encl.: Exhibit A – Location Map  
GHA Hourly Rates  
Attachment A

# Kautz Road Widening

IL 38 to Commerce Drive  
8 intersections

## Legend

 Feature 1



Commerce Dr

IL Prairie Path x-  
ing

Google Earth

© 2018 Google

N

1 mi

21

## Hourly Billing Rates Gewalt Hamilton Associates, Inc.

The following rates will remain in effect until December 31, 2019, at which time they are subject to an annual increase.

Category	Rates
Principal	\$208.00
Civil Engineer VI	\$178.00
Civil Engineer V	\$176.00
Civil Engineer IV	\$174.00
Civil Engineer III	\$154.00
Civil Engineer II	\$144.00
Civil Engineer I	\$124.00
Land Surveyor IV	\$146.00
Land Surveyor III	\$128.00
Land Surveyor II	\$122.00
Land Surveyor I	\$116.00
Engineering Technician V	\$174.00
Engineering Technician IV	\$130.00
Engineering Technician III	\$120.00
Engineering Technician II	\$106.00
Engineering Technician I	\$78.00
GIS Professional II	\$134.00
GIS Professional I	\$126.00
Environmental Consultant II	\$130.00
Environmental Consultant I	\$120.00
Administrative I	\$64.00

Services provided under this Agreement will be billed according to the rates in effect at the time services are rendered.

**WBK CECS (SUBCONSULTANT)**

**WORK HOUR ESTIMATE FOR CONSULTING SERVICES  
Phase 1  
Kautz Road- Phase 1**

Route  
Local Agency City of Geneva  
Section  
Project  
Job No. 190190  
Existing Structure

Description		Engineer VI	Engineer IV	Engineer III	Engineering Technician IV	Engineering Technician III	In House Direct Costs
<b>1</b>	<b>Survey</b>						
	Survey Control			10		10	
	Topographic Survey			68		68	
	Existing Conditions Drawing				54		
	ROW - Limited				8		
	<b>SUB-TOTAL</b>	<b>218.0</b>		<b>78.0</b>	<b>62.0</b>	<b>78.0</b>	<b>\$ 197.20</b>
	<b>PERCENT</b>			<b>36%</b>	<b>28%</b>	<b>36%</b>	
<b>2</b>	<b>Abbreviated Location Drainage Study</b>						
	2.1 General Location Drainage Map		1				
	2.2 Existing Drainage Plans (6 sheets)	5	23				
	2.3 Identified Drainage Problems (coordination with Municipalities		2				
	2.4 Identified Base Floodplains		1				
	2.5 Design Criteria	1					
	2.6 Outlet Evaluation	7					
	2.7 Storm Water Detention Analysis	3	10				
	2.8 Drainage Alternatives	3	7				
	2.9 Proposed Drainage Plans	8	41				
	2.1 Narrative/ Study Assembly		11				
	2.1 QA/QC	14					
	<b>SUB-TOTAL</b>	<b>137.0</b>	<b>41.0</b>	<b>96.0</b>			<b>\$ 166.44</b>
	<b>PERCENT</b>		<b>30%</b>	<b>70%</b>			
	<b>TOTALS</b>	<b>355.0</b>	<b>41.0</b>	<b>96.0</b>	<b>78.0</b>	<b>62.0</b>	<b>\$ 363.64</b>
	<b>PERCENT</b>		<b>12%</b>	<b>27%</b>	<b>22%</b>	<b>17%</b>	<b>22%</b>

**Phase 1  
Kautz Road- Phase 1  
Kautz Road**

415

Route 0  
Local Agency City of Geneva  
Section 0  
Project 0  
Job No. ####  
Existing Structure No. 0

\*Firm's **approved rates** on file with IDOT's Bureau of Accounting and Auditing:

Overhead Rate (OH)	149.77 %
Complexity Factor ( R )	0.000
Calendar Days	0

Method of Compensation:  
 Cost Plus Fixed Fee 1  14.5%[DL + R(DL) + OH(DL) + IHDC]  
 Cost Plus Fixed Fee 2  14.5%[DL + R(DL) + 1.4(DL) + IHDC]  
 Cost Plus Fixed Fee 3  14.5%[(2.3 + R)DL + IHDC]  
 Specified Rate  (0.37 + R) DL  
 Lump Sum

Date: 9/4/2019

**Cost Estimate of Consultant's Services in Dollars**

Element of Work	Employee Classification	Man-Hours	Payroll Rate	Payroll Costs (DL)	Overhead (DLxOH)	Services by Others	In-House Direct Costs (IHDC)	Fixed Fee	Total
1 Survey						\$ -	\$ 197.20	\$ 28.59	\$ 225.79
	Engineer III	78.0	\$36.57	\$2,852.46	\$4,272.13			\$1,033.07	\$8,157.66
	Engineering Technician IV	62.0	\$57.19	\$3,545.78	\$5,310.51			\$1,284.16	\$10,140.45
	Engineering Technician III	78.0	\$36.45	\$2,843.10	\$4,258.11			\$1,029.68	\$8,130.89
2 Abbreviated Location Drainage Study						\$ -	\$ 166.44	\$ 24.13	\$ 190.57
	Engineer VI	41.0	\$86.59	\$3,550.19	\$5,317.12			\$1,285.76	\$10,153.07
	Engineer IV	96.0	\$46.46	\$4,460.16	\$6,679.98			\$1,615.32	\$12,755.46
<b>Totals</b>		355.0		\$ 17,251.69	\$ 25,837.85	\$ -	\$ 363.64	\$ 6,300.71	\$ 49,753.89

Phase 1

**In-House Direct Costs (IHDC)**

Route 0  
 Local Agency City of Geneva  
 Section 0  
 Project 0  
 Job No. 190190  
 Existing Struc 0

Consultant **WBK Engineering, LLC**

			TASK 1		TASK 2		TASK 3	
			Survey		Abbreviated Location Drainage Study		0	
ITEM	UNITS	UNIT COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST	QUANT.	TOTAL COST
<b>DIRECT COSTS</b>								
Postage & Shipping (UPS, Fed-Ex)	UNIT	\$1.00		\$0.00	100	\$100.00		\$0.00
Vehicle Usage	DAY	\$65.00		\$0.00		\$0.00		\$0.00
Vehicle Mileage	MILE	\$0.580	340	\$197.20	68	\$39.44		\$0.00
24 x 36 BW Bond Sheets	SHEET	\$0.66		\$0.00		\$0.00		\$0.00
24 x 36 Color Bond Sheets	SHEET	\$21.00		\$0.00		\$0.00		\$0.00
24 x 36 Mylar Plots	SHEET	\$13.50		\$0.00		\$0.00		\$0.00
24 x 36 Display Boards	EACH	\$33.00		\$0.00		\$0.00		\$0.00
11 x 17 BW Photocopies	SHEET	\$0.20		\$0.00		\$0.00		\$0.00
11 x 17 Color Photocopies	SHEET	\$2.25		\$0.00	12	\$27.00		\$0.00
8 ½ x 11 BW Photocopies	SHEET	\$0.15		\$0.00		\$0.00		\$0.00
8 ½ x 11 Color Photocopies	SHEET	\$1.25		\$0.00		\$0.00		\$0.00
Small Report Binding	EACH	\$40.00		\$0.00		\$0.00		\$0.00
Medium Report Binding	EACH	\$75.00		\$0.00		\$0.00		\$0.00
Large Report Binding	EACH	\$100.00		\$0.00		\$0.00		\$0.00
Public Notice (News Paper)	EACH	\$350.00		\$0.00		\$0.00		\$0.00
Survey Equipment (Per Week)	WEEK	\$700.00		\$0.00		\$0.00		\$0.00
Specialty Equipment	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
Permit Fees	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
Plan/Inspection Review Fees	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
Recording Fees	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
Title Commitments	EACH	\$500.00		\$0.00		\$0.00		\$0.00
Phase I Archeological Survey	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
Special Waste Radius Report	UNIT	\$1.00		\$0.00		\$0.00		\$0.00
<b>Sub-Totals</b>				<b>\$197.20</b>		<b>\$166.44</b>		<b>\$0.00</b>

**KASKASKIA CECS (SUBCONSULTANT)**

**PAYROLL ESCALATION TABLE  
FIXED RAISES**

FIRM NAME Kaskaskia Engineering Group, L  
 PRIME/SU SUBCONSULTANT  
 Prepared by MATT BALDWIN, PE, PTOE

DATE 09/06/19  
Kautz Road Widening - Geneva

CONTRACT TERM 9 MONTHS  
 START DATE 10/1/2019  
 RAISE DATE 4/1/2020  
 END DATE 6/30/2020

OVERHEAD RATE 160.79%  
 COMPLEXITY FACTOR 1  
 % OF RAISE 3%

**ESCALATION PER YEAR**

<u>year</u>	<u>First date</u>	<u>Last date</u>	<u>Months</u>	<u>% of Contract</u>
0	10/1/2019	4/1/2020	6	66.67%
1	4/2/2020	7/1/2020	3	34.33%

---

The total escalation = 1.00%

## PAYROLL RATES

**FIRM NAME**  
**PRIME/SUPPLEMENT**

**Kaskaskia Engineering Group, LLC**  
**SUBCONSULTANT**

**DATE**

**09/06/19**

**ESCALATION FACTOR**

**1.00%**

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Manager	\$90.62	\$91.53
Principal Engineer	\$76.61	\$77.38
Senior Engineer	\$55.55	\$56.11
Geotechnical Engineer	\$51.28	\$51.79
Project Manager IV	\$55.77	\$56.33
Project Manager III	\$47.05	\$47.52
Project Manager I	\$36.70	\$37.07
Project Engineer I	\$39.62	\$40.02
Staff Engineer IV	\$35.50	\$35.86
Staff Engineer III	\$32.08	\$32.40
Staff Engineer I	\$26.42	\$26.68
Biologist/Scientist V	\$47.43	\$47.90
Biologist/Scientist IV	\$42.77	\$43.20
Biologist/Scientist II	\$27.55	\$27.83
Biologist/Scientist I	\$23.00	\$23.23
GIS Manager	\$40.58	\$40.99
Technician V	\$46.35	\$46.81
Technician IV	\$37.11	\$37.48
Technician III	\$31.45	\$31.76
Technician II	\$28.56	\$28.85
Technicain I	\$22.60	\$22.83
Administrative Personnel	\$31.80	\$32.12
Intern	\$16.00	\$16.16



### AVERAGE HOURLY PROJECT RATES

**FIRM** Kaskaskia Engineering Group, LLC  
**PROJECT** Kautz Road Widening - Geneva  
**PRIME/SUPPLEMENT** SUBCONSULTANT

**DATE** 09/06/19

**SHEET** 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			1. Data Collection and Field I			4. Project Alts and Cost			6. Roadway Geometrics			7. Traffic Maint Analysis			8. PDR		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Manager	70.00	12.0	3.35%	2.35															
Principal Engineer	70.00	0.0																	
Senior Engineer	56.11	0.0																	
Geotechnical Engineer	51.79	0.0																	
Project Manager IV	56.33	61.0	17.04%	9.60	6	100.00%	56.33	6	100.00%	56.33	30	11.63%	6.55	6	100.00%	56.33	2	5.71%	3.22
Project Manager III	47.52	0.0																	
Project Manager I	37.07	0.0																	
Project Engineer I	40.02	62.0	17.32%	6.93							42	16.28%	6.51				12	34.29%	13.72
Staff Engineer IV	35.86	0.0																	
Staff Engineer III	32.40	87.0	24.30%	7.87							62	24.03%	7.79				15	42.86%	13.89
Staff Engineer I	26.68	38.0	10.61%	2.83							38	14.73%	3.93						
Biologist/Scientist V	47.90	0.0																	
Biologist/Scientist IV	43.20	0.0																	
Biologist/Scientist II	27.83	0.0																	
Biologist/Scientist I	23.23	0.0																	
GIS Manager	40.99	0.0																	
Technician V	46.81	0.0																	
Technician IV	37.48	98.0	27.37%	10.26							86	33.33%	12.49				6	17.14%	6.43
Technician III	31.76	0.0																	
Technician II	28.85	0.0																	
Technicain I	22.83	0.0																	
Administrative Personnel	32.12	0.0																	
Intern	16.16	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
<b>TOTALS</b>		358.0	100%	\$39.84	6.0	100.00%	\$56.33	6.0	100%	\$56.33	258.0	100%	\$37.27	6.0	100%	\$56.33	35.0	100%	\$37.25





**HUFF & HUFF CECS (SUBCONSULTANT)**

## PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME Huff & Huff, Inc.  
 PRIME/SUPPLEMENT TranSystems  
 Prepared By JJR-H&H

DATE 09/05/19  
 PTB-ITEM# 0

CONTRACT TERM 12 MONTHS  
 START DATE 8/15/2019  
 RAISE DATE 3/1/2020  
 END DATE 8/14/2020

OVERHEAD RATE 174.01%  
 COMPLEXITY FACTOR 0  
 % OF RAISE 3%

### ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	8/15/2019	3/1/2020	7	58.33%
1	3/2/2020	8/1/2020	5	42.92%

---

The total escalation = 1.25%

## PAYROLL RATES

**FIRM NAME** Huff & Huff, Inc. **DATE** 09/05/19  
**PRIME/SUPPLEMENT** TranSystems  
**PTB-ITEM #** 0

**ESCALATION FACTOR** **1.25%**

*Note: Rates should be capped on the AVG 1 tab as necessary*

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
Principal	\$72.80	\$73.71
Associate Principal II	\$75.00	\$75.94
Associate Principal I	\$62.63	\$63.41
Senior Consultant	\$69.44	\$70.31
Senior Project Manager III	\$60.73	\$61.49
Senior Project Manager II	\$46.64	\$47.22
Senior Project Manager I	\$45.12	\$45.68
Senior Landscape Architect	\$52.74	\$53.40
Senior Planning PM	\$51.48	\$52.12
Senior Geologist PM	\$47.33	\$47.92
Senior Technical Specialist	\$46.14	\$46.72
Senior Scientist PM II	\$48.58	\$49.19
Senior Scientist PM I	\$45.62	\$46.19
Senior Technical Scientist	\$43.36	\$43.90
Technical Graphics Technic	\$23.34	\$23.63
Scientist PM II	\$43.85	\$44.40
Scientist PM I	\$35.10	\$35.54
Engineer PM I	\$39.43	\$39.92
Planning PM	\$37.08	\$37.54
Assistant PM Engineer I	\$35.13	\$35.57
Engineer I	\$36.06	\$36.51
Scientist E1	\$30.43	\$30.81
Scientist E2	\$24.73	\$25.04
Administrative Managers	\$42.04	\$42.57
Senior Administrative Assist	\$29.53	\$29.90
Intern	\$19.00	\$19.24



### AVERAGE HOURLY PROJECT RATES

**FIRM** Huff & Huff, Inc.  
**PTB-ITEM#** 0  
**PRIME/SUPPLEMENT** TranSystems

**DATE** 09/05/19

**SHEET** 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			PESA			Wetland Delineation			QAQC			Project Management					
		Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg	Hours	% Part.	Wgt'd Avg
Principal	70.00	0.0																	
Associate Principal II	70.00	0.0																	
Associate Principal I	63.41	1.0	1.75%	1.11							1	100.00%	63.41						
Senior Consultant	70.31	0.0																	
Senior Project Manager III	61.49	0.0																	
Senior Project Manager II	47.22	0.0																	
Senior Project Manager I	45.68	0.0																	
Senior Landscape Architect	53.40	0.0																	
Senior Planning PM	52.12	0.0																	
Senior Geologist PM	47.92	1.0	1.75%	0.84										1	100.00%	47.92			
Senior Technical Specialist	46.72	6.0	10.53%	4.92				6	22.22%	10.38									
Senior Scientist PM II	49.19	0.0																	
Senior Scientist PM I	46.19	0.0																	
Senior Technical Scientist	43.90	8.0	14.04%	6.16	2	7.14%	3.14	6	22.22%	9.76									
Technical Graphics Technician	23.63	2.0	3.51%	0.83				2	7.41%	1.75									
Scientist PM II	44.40	0.0																	
Scientist PM I	35.54	0.0																	
Engineer PM I	39.92	0.0																	
Planning PM	37.54	0.0																	
Assistant PM Engineer I	35.57	13.0	22.81%	8.11	13	46.43%	16.51												
Engineer I	36.51	0.0																	
Scientist E1	30.81	26.0	45.61%	14.05	13	46.43%	14.30	13	48.15%	14.83									
Scientist E2	25.04	0.0																	
Administrative Managers	42.57	0.0																	
Senior Administrative Assistant	29.90	0.0																	
Intern	19.24	0.0																	
		0.0																	
<b>TOTALS</b>		57.0	100%	\$36.03	28.0	100.00%	\$33.95	27.0	100%	\$36.72	1.0	100%	\$63.41	1.0	100%	\$47.92	0.0	0%	\$0.00

**HUFF & HUFF, INC.**  
**SUMMARY OF DIRECT COSTS**  
 Project: TranSystems - Kautz Rd Geneva

						<u><b>DIRECT</b></u>	
<b>Task 1 - PESA</b>							
Trips	41 miles	x	1.0	x	\$ 0.58	= \$ 23.78	
Tolls			2	x	\$ 1.50	= \$ 3.00	
Reproduction	1 sets	x	100	x	\$ 0.03	= \$ 3.00	
Color copies	1 sets	x	20	x	\$ 0.11	= \$ 2.20	
Maps/Aerials			2	x	\$ 90.00	= \$ 180.00	
Database Package			1	x	\$ 300.00	= \$ 150.00	
						<b>Task Total</b>	<b>\$ 361.98</b>
 <b>Task 2 - Wetlands</b>							
Trips	41 miles	x	1	x	\$ 0.58	= \$ 23.78	
Tolls			3	x	\$ 1.50	= \$ 4.50	
						<b>Task Total</b>	<b>\$ 28.28</b>
 <b>Task 3 - QAQC</b>							
						<b>Task Total</b>	<b>\$ -</b>
 <b>Task 4 -Project Management</b>							
						<b>Task Total</b>	<b>\$ -</b>
						<b>GRAND TOTAL</b>	<b>\$ 390.26</b>

F:\Proposals\Proposal-FY2020\TranSystems\Kautz Rd\81.PT00103.20 Revised TS Kautz IDOT DC Geneva REV.xls]Direc