

ILLINOIS DEPARTMENT OF TRANSPORTATION

Request for Approval
of Change in Consultant Contract

Date: 1/15/2015

Local Agency: LAKE COUNTY

Request: No. 1

Name: Hart Road at US Route 14 (Northwest
Highway) Intersection Improvement
Section: 09-00174-05-CHTo: Department of Transportation
LCDOT / SCHAUMBURG

Consultant: TranSystems Corporation

I recommend that an addition be made to the above consultant contract.

The estimated work is listed below

Original contract amount
for services described: \$927,604.31Sum of all previous contract
change orders: \$0.00

Item #	Description	Additions	Deductions
1	Additional Phase I and Phase II work for the addition of an 8 foot shared use path along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69).	\$119,832.67	
2			
3			
TOTALS		\$119,832.67	\$0.00
NET CHANGE		\$119,832.67	\$0.00

Net ADDITION change to date \$119,832.67 which is 12.92 % of the original contract amount for services described

State fully the nature and reason for change:

Revised contract amount
for services described: \$1,047,436.98

Please see attached.

When the net increase or decrease in the cost of the contract is \$10,000 or more, or the time of completion is increased or decreased by 30 days or more, one of the following statements shall be checked.

The undersigned determined that the circumstances which necessitated this change were not reasonably foreseeable at the time the contract was signed.

X The undersigned determined that the circumstances which necessitated this change were not within the contemplation of the contract as signed.

The undersigned determined that this change is in the best interest of the local agency and is authorized by law.

Consultant  Date 1/15/15Project Manager/Engineer  Date 1/16/15Department Head  Date 1/16/15

Chief Accounting Specialist _____ Date _____

Approval
Recommended _____ Date _____
County Engineer

EXHIBIT A – SUPPLEMENT #1 SCOPE OF SERVICES

Hart Road at US Route 14 (Northwest Highway)

Intersection Improvement

Section No. 09-00174-05-CH

This supplement consists of Phase I and Phase II Engineering services to add an 8 foot shared use path along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69). The scope of work consists of both Phase I and Phase II work.

1. **Sidewalk-Path Options**
 - a. Develop two options for pedestrian accommodations on the south (west) side of Hart Road from the intersection of Hart Road and US Route 14 to the east (south) project limit (Sta. 93+07.69). The first option is a 6 foot sidewalk at the back of curb and the other is an 8 foot shared use path.
 - b. Develop a construction cost estimate for both options.
 - c. Determine the right-of-way required for both options and determine the cost.
 - d. Create an exhibit showing the additional right-of-way required for both options.
 - e. Attend meeting to discuss the pedestrian options with the LCDOT, Village of Barrington and the Village of Barrington Hills.
2. **Preliminary Design Studies**
 - a. Revise railroad crossing exhibits detailing geometrics, medians, signal and gates, and pavement markings.
3. **Location Drainage Study**
 - a. Amend the Location Drainage Study for the increase in storm water detention that will be required due to the addition of the shared use path.
 - b. Submit (2 submittals) the changes to the Location Drainage Study to IDOT.
4. **Environmental Studies**
 - a. Revise ESR limits and submit to IDOT.
5. **Preferred Improvement Plan**
 - a. Revise Preferred Improvement Plans.
 - b. Revise Typical Sections.
 - c. Develop projected opening day (construction complete) DHV volumes.
 - d. Update IDS using HCS 2010.
 - e. Revise IDS from Phase I for a new pedestrian crossing across the south leg of Hart Road.
 - f. Submit (2 submittals) revised IDS to IDOT, ICC, LCDOT, Village of Barrington and Union Pacific.
 - g. Dispose of comments on the IDS.
 - h. Revise ROW, permanent easement and temporary easement requirements. Revise right-of-way summary tables and exhibits.
6. **Meetings and Coordination**
 - a. Attend FHWA/IDOT Coordination meeting (1 meeting anticipated) to present the revised Preferred Improvement Plan and obtain approval of the proposed design.

EXHIBIT A – SUPPLEMENT #1 SCOPE OF SERVICES

Hart Road at US Route 14 (Northwest Highway)

Intersection Improvement

Section No. 09-00174-05-CH

- b. Coordinate revised design with the ICC and the Union Pacific due to the additional pedestrian crossing required for the shared use path.
 - c. Coordinate design of the shared use path with the Village of Barrington (3 meetings assumed).
7. **Phase I Addendum**
- a. Prepare an addendum to the approved Project Development Report dated January 2013 for submittal to IDOT, FHWA, ICC, LCDOT, Village of Barrington and Union Pacific (2 submittals) (9 copies per submittal).
 - b. Address comments from IDOT, FHWA, ICC, LCDOT, Village of Barrington and Union Pacific on the report addendum.
 - c. Revise cost estimate.
8. **Survey**
- a. Additional topographic and ground survey along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69).
9. **Permitting**
- a. Revise wetland delineations, investigations and report. See attached proposal from Huff and Huff.
 - b. Provide engineering services and clarify questions from Huff and Huff regarding the proposed design.
10. **Preliminary Plans**
- a. Revise preliminary plans to add in the new 8 foot shared use path along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69).
 - b. Revise drainage calculations and design for the additional detention that will be required for the addition of the 8 foot shared use path.
 - c. Resubmit Preliminary Plans to the Union Pacific for review and address the Union Pacific's comments.
11. **Right of Way Services**
- a. Jorgensen & Associates, Inc. to revise Plat of Highways and Legal Descriptions for the properties along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69). See details in the attached proposal from Jorgensen & Associates, Inc..
 - b. Resubmit Plats and Legals to IDOT for review.
 - c. Mathewson Right of Way Company will not require additional scope in this supplement for the appraisals, review appraisals and negotiations for the properties along the south (west) side of Hart Road from US Route 14 to the east (south) project limit (Sta. 93+07.69).
 - d. Reach out to the property owner of the property that is on the south side of Hart Road at the east (south) project limit (Sta. 93+07.69). This is a new property in which ROW is required.
 - e. Provide engineering services and clarify questions or comments identified in the plat of highways and negotiation process.

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME
PRIME/SUPPLEMENT

TranSystems Corporation

DATE 12/16/14
PTB NO.

CONTRACT TERM
START DATE
RAISE DATE

22 MONTHS
9/1/2014
4/1/2015

OVERHEAD RATE
COMPLEXITY FACTOR
% OF RAISE

149.77%
0
3.00%

ESCALATION PER YEAR

9/1/2014 - 4/1/2015

7
22

= 31.82%
= 1.0247

4/2/2015 - 4/1/2016

12
22

56.18%

4/2/2016 - 7/1/2016

3
22

14.47%

The total escalation for this project would be:

2.47%

PAYROLL RATES

FIRM NAME
PRIME/SUPPLEMENT
PSB NO.

TranSystems Corporatic DATE

12/16/14

ESCALATION FACTOR

2.47%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Engineer 5 (E5)	\$70.00	\$70.00
Engineer 4 (E4)	\$70.00	\$70.00
Engineer 3 (E3)	\$52.83	\$54.13
Engineer 2 (E2)	\$39.26	\$40.23
Engineer 1 (E1)	\$30.55	\$31.30
Surveyor 3 (S3)	\$33.60	\$34.43
Surveyor 1 (S1)	\$19.90	\$20.39
Technician 3 (T3)	\$34.60	\$35.45
Technician 1 (T1)	\$20.33	\$20.83
Administrative 2 (A2)	\$29.55	\$30.28
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

COST PLUS FIXED FEE

DF-824-039
1256/12/04

FIRM	PSB	PRIME/SUPPLEMENT
TransSystems Corporation		

OVERHEAD RATE	1.4977
COMPLEXITY FACTOR	0

DATE _____

[illegible]

۱۳۸۳

DBE 0.00%

PREPARED BY THE AGREEMENTS UNIT

Printed 12/16/2014 5:02 PM

AVERAGE HOURLY PROJECT RATES

FIRM TransSystems Corporation
PSB _____
PRIME/SUPPLEMENT _____

DATE	12/16/14
SHEET	2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	Meetings and Coordination			Phase I Addendum			Survey			Permitting			Preliminary Plans			Right-of-Way Services		
		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																		
Engineer 4 (E4)	70.00	15	30.00%	21.00	6	15.79%	11.05												
Engineer 3 (E3)	54.13	35	70.00%	37.89	16	42.11%	22.79	2	5.26%	2.85	4	50.00%	27.07	12	3.41%	2.39			
Engineer 2 (E2)	40.23				8	21.05%	8.47	4	10.53%	4.23			20.11	96	27.27%	10.97	4	50.00%	20.11
Engineer 1 (E1)	31.30				8	21.05%	6.59							96	27.27%	8.54			
Surveyor 3 (S3)	34.43																		
Surveyor 1 (S1)	20.39							16	42.11%	14.50									
Technician 3 (T3)	35.45							16	42.11%	8.59									
Technician 1 (T1)	20.83													96	27.27%	9.67			
Administrative 2 (A2)	30.28																		
TOTALS		50	100%	\$58.89	38	100%	\$48.90		100%	\$30.17	8	100%	\$47.18		100%	\$39.56	8	100%	\$47.18



environmental engineers
and consultants

915 Harger Road, Suite 330
Oak Brook, IL 60523
Phone (630) 684-9100
Fax (630) 684-9120
Website: <http://huffnhuff.com>

December 10, 2014

Joseph W. Cwynar, P.E., PTOE
Project Manager
TranSystems Corporation
1475 East Woodfield Road, Suite 600
Schaumburg, IL 60173-5440

**Re: Environmental Services Supplement #2
Hart Road Phase I
Village of Barrington and Barrington Hills, Lake County, Illinois
Proposal No. 81.PW00047.15**

Dear Mr. Cwynar:

Huff & Huff, Inc. (CONSULTANT) is pleased to submit this proposal to perform supplemental environmental services associated with the proposed improvements to the Hart Road and U.S. 14 (Northwest Highway) intersection located in the Village of Barrington and Barrington Hills, Lake County, Illinois. This proposal presents our project approach, the scope of services, cost, and schedule for completing the project.

1. PROJECT UNDERSTANDING

The Village of Barrington is proposing to complete a Phase I intersection improvement project at the intersection of Hart Road and U.S. 14. CONSULTANT has been requested to provide environmental services within the expanded project limits, as the original project limits have been revised for this project to include the addition of a shared use path.

CONSULTANT conducted wetland delineations in June 2009 and May 2010, September 2011, and June 2014. This supplement includes updates to the wetland delineations conducted in 2009, 2010, 2011, and 2014 as the project limits have changed. The expanded project area includes areas not previously delineated. The expanded project area is along the southwest side of Hart Road beginning at the Hart Road intersection with the Union Pacific Railroad and extending east along the south side of Hart Road for approximately 1,750 feet.

This proposal includes the following scope of services:

- Task 1 – Wetland Delineation
- Task 2 – Wetland Report/Wetland Impact Evaluation Form (WIEF) Preparation
- Task 3 – Jurisdictional Determination Submittal

2. SCOPE OF SERVICES

Task 1: Wetland Delineation

CONSULTANT will perform an investigation within the project limits along the southwest side of Hart Road beginning at the Hart Road intersection with the Union Pacific Railroad and extending east along the south side of Hart Road for approximately 1,750 feet to determine if any areas within the project area will be considered wetlands. To perform this task, a review of published data will be conducted to determine the current status. A site visit will be conducted and wetlands encountered in the field will be delineated. Areas exhibiting characteristics of wetlands will be delineated.

The wetland delineations will be conducted to meet the requirements of Executive Order 11990, "Protection of Wetlands", Section 404 of the Federal Water Pollution Control Act as amended by the Clean Water Act (Corps of Engineers, Section 404 Permit), and Illinois Environmental Protection Agency (IEPA Section 401 Guidelines) regulations. These regulations pertain to the placement of fill or alterations of drainage within wetlands of any type and apply to private as well as publicly owned wetlands. The investigation will meet the requirements of these regulations by identifying the type, functions, and boundary of the involved wetlands. If wetlands exist, delineations will be conducted using the methodologies presented in the U.S. Army Corps of Engineers (COE) 2010 "*COE Regional Supplement to the COE Wetland Delineation Manual: Midwest Region (COE Midwest Region Manual)*".

"Wetlands" are defined by the COE for jurisdictional purposes as "those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions" (33 CFR 323.3(c)).

Off-site Record/Document Review

The following records/documents will be reviewed prior to conducting the field investigation. Soils information will be reviewed to determine the soil types encountered during the delineation procedures. The maps reviewed and to be used include:

- U.S. Geological Survey Topographic Maps
- National Wetlands Inventory (NWI) Maps
- Lake County Advanced Identification (ADID) Maps
- Lake County Wetland Inventory (LCWI) Maps
- Lake County Soil Survey
- Hydric Soils of the United States
- Flood Insurance Rate Maps

Based on the Lake County ADID Map, ADID wetlands are not located near the project area. The LCWI Map identifies one wetland located south of Hart Road, east of the Union Pacific Railroad. The NWI map does not identify wetlands within the extended limits of the project.

The Natural Resources Conservation Service (NRCS) no longer conducts farmed wetland determinations for areas of agricultural conversion. The project does not include agricultural areas; therefore, a Farmed Wetland Determination (FWD) is not included in this scope.

On-Site Investigation (Field Inventory)

The on-site investigation will be conducted by our environmental staff experienced in Federal methods for conducting wetland delineations. Our staff will classify and define hydric soils, hydrophytic vegetation, and evidence of hydrology to determine if wetlands are present. The wetland perimeters will be located and flagged for completion of field survey by others. The delineation must be completed during the growing season (approximately May 15 to October 1).

Wetlands found will be classified according to type using the "*Classification of Wetlands and Deep Water Habitats of the United States*" by Cowardin. Wetland boundaries will be defined using the "*COE Midwest Region Manual*" (COE, 2010). Each potential wetland area will be evaluated for the presence of wetland indicators comprised of hydrophytic vegetation, hydric soils, and wetland hydrology. Functions of wetlands will be evaluated from field observations as well.

In addition to areas mapped as wetlands by the LCWI Map, the entire area within the new project limits will be investigated in the event that unmapped wetlands are present. All areas exhibiting wetland characteristics within the project limits will be investigated.

Detailed plant sampling within quadrats will be conducted to assess the floristic quality of all wetlands encountered. A floristic quality assessment is required by the COE for all wetlands. The field investigation will be restricted to the areas within the proposed project area.

Surveying the perimeters of delineated wetlands will be required. CONSULTANT will survey the wetland perimeters in the field using Global Positioning System (GPS).

Task 2. Wetland Report/WIEF

A wetland delineation report will be prepared summarizing the findings of the fieldwork. Based on available information, wetlands are present and this report will be needed. Specific items to be included are as follows:

- a) Map showing the wetland/WOUS boundaries and project boundaries
- b) Aerial Photo with the appropriate limits of delineated wetlands and/or WOUS
- c) COE data sheets with color photos of the wetlands and the data points
- d) Floristic Quality Assessment
- e) Written description of wetland functional classification
- f) Permitting summary
- g) Mitigation requirements and options, if necessary

A WIEF is required for all state or local road projects where wetland surveys have been conducted, including those with no impacts. CONSULTANT will assist TranSystems in the preparation and submittal of any WIEFs required for this project.

Task 3. Jurisdictional Determination Submittal

Once the delineations have been completed, a draft jurisdictional determination request will be prepared and presented to TranSystems. This request will be modified as requested by TranSystems and then submitted to the COE. This form requires the signature of the owner of the property in which the wetland(s) lie. Time is not included in this scope to meet with the COE in the field.

The jurisdictional submittal will determine which wetlands will require COE permitting. Wetlands deemed isolated will not require COE permits.

3. COST ESTIMATE

Table 1 summarizes the anticipated level of effort. Costs for these services are presented in the Cost Estimate for Consultant Services.

4. SCHEDULE

The formal delineation will be scheduled within four weeks after the Notice to Proceed is given. This proposal assumes that the delineation will be completed during the growing season (approximately May 15 to October 1) once preliminary plans have been received. If the delineation is completed outside of the growing season, additional field visits would be required to verify the wetland boundaries. Additional field visits are not included in the scope of work.

5. CONTRACT TERMS

1. **CONSULTANT'S SERVICES:** The Consultant's (Huff & Huff, Inc.) services shall consist of those tasks described in Section 2.
2. **SCHEDULE:** The Consultant's work under this Agreement shall begin within two weeks of receipt of written notice to proceed or a signed copy of this Agreement.
3. **COMPENSATION:** The fee basis for the scope of work, as outlined in Section 4, pertains to the specific scope work.
4. **DIRECTION:** For work performed under this Agreement, Consultant shall take direction from the CLIENT.
5. **CHANGES:** This Agreement may only be changed by written amendment which specifies the terms being revised and which has been signed by both parties hereto.
6. **PROJECT DATA:** The Consultant, in coordination with the CLIENT, shall obtain from the appropriate sources all data and information necessary for the proper and complete execution of the Consultant's services.
7. **INDEPENDENT CONSULTANT:** The Consultant shall be deemed to be an independent contractor in all its operations and activities hereunder. The employees furnished by Consultant to perform the work shall be deemed to be Consultant employees exclusively, and said

employees shall be paid by Consultant for all services in this connection. The Consultant shall be responsible for all obligations and reports covering Social Security, Unemployment Insurance, Workmen's Compensation, Income Tax, and other reports and deductions required by an applicable state or Federal law.

8. **RIGHTS OF WORK PRODUCT:** CLIENT shall have unlimited rights in all drawings, designs, specifications, notes, and other work developed in the performance of this contract, including the right to use same on any other work without additional cost to the CLIENT. The Consultant shall not be liable for any use or reuse of the drawings, designs, specifications, notes and other work for use other than intended under the terms of this Agreement.
9. **INDEMNIFICATION:** The Consultant hereby agrees to indemnify and hold harmless the CLIENT and any proper owners whose property it is necessary to access in the performance of this work, against any and all liability, loss, damages, demands, or actions or causes of action, which may result from any damages or injuries sustained by a person or entity in connection with or on account of any negligent act or omission of the Consultant or its employees relating to its obligations pursuant to this Agreement.
10. **TERMINATION:** CLIENT may terminate this Agreement at any time upon ten (10) days written notice for whatsoever reason, provided CLIENT shall pay the Consultant a reasonable fee for work satisfactorily performed prior to the effective date of termination. In no case, however, shall the total amount paid to Consultant exceed the amount set out above.
11. **INSURANCE:** The Consultant shall maintain insurance as set forth in the prime contract, if attached, or as set forth below.
 - a. Worker's Compensation and Employer's Liability Insurance: Worker's Compensation in compliance with applicable State and Federal laws.
 - b. Comprehensive General Liability Insurance for Bodily Injury and Property Damage to a combined single limit of \$2,000,000 per occurrence/claim or an umbrella of \$3,000,000.
 - c. Comprehensive Automobile Liability Insurance, including owned, hired, and non-owned automobiles, for Bodily Injury and Property Damage to a combined single limit of \$1,000,000 per occurrence/\$2,000,000 aggregate.
 - d. Professional liability insurance \$2,000,000 on a claims made basis.
12. **STANDARD OF CARE:** Services performed by the Consultant under this Agreement will be conducted in a manner consistent with the level of care and skill ordinarily exercised by members of the profession currently practicing in the same locality under similar conditions.
13. **RETENTION OF RECORDS:** Consultant shall maintain complete records of all hours billed and direct costs incurred under this Agreement so as to accurately reflect the services performed and basis for compensation and reimbursement under this Agreement.
14. **LEGAL:** This Agreement shall be construed and interpreted solely in accordance with the laws of the State of Illinois.

BOTH PARTIES HERETO WARRANT AND REPRESENT that they have full right, power, and

authority to execute this Contract.

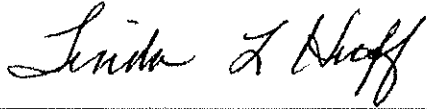
IN WITNESS THEREOF, the parties hereto have executed this Agreement as of the day and year first specified above.

CONSULTANT

CLIENT

HUFF & HUFF, INC.

TRANSYSTEMS



Signature

Signature

By: Linda L. Huff, P.E.

Typed Name

Typed Name

President

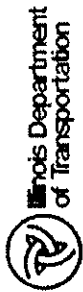
Officer's Title

Officer's Title

December 10, 2014

Date

Date



FIRM NAME
PRIME/SUPPLEMENT

Huff & Huff, Inc.
TranSystems

Payroll Escalation Table
Fixed Raises

DATE 12/10/2014
PTB NO. _____
OVERHEAD RATE 148.80%
COMPLEXITY FACTOR 0
% OF RAISE 3.00%

CONTRACT TERM 6 MONTHS
START DATE 12/1/2014
RAISE DATE 1/1/2015

ESCALATION PER YEAR

12/1/2014 - 1/1/2015

1
6

= 16.67%
= 1.0250

1/2/2015 - 6/1/2015

5
6

85.83%

The total escalation for this project would be:

2.50%



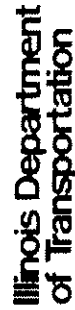
Payroll Rates

Huff & Huff, Inc.
TranSystems

DATE ~~#####~~

2.50%

[illegible]



**Cost Estimate of
Consultant Services
(CPFF)**

Date	12/10/2014
Overhead Rate	148.80%
Complexity Factor	0

Item	Manhours	Payroll	Overhead & Fringe Benefits	In-House Direct Costs	Fixed Fee	Outside Direct Costs	Services By Others	Total	% of Grand Total
1 Wetland Delineation	8	244.20	363.36	39.20	93.78	0.00	0.00	740.54	16.74%
2 Wetland Report /WIEF	34	1,044.34	1,553.98	13.35	378.69	0.00	0.00	2,990.36	67.59%
3 JD Submittal	7.5	240.71	358.18	6.90	87.84	0.00	0.00	693.63	15.68%
TOTAL \$	49.5	1 529.25	2 275.52	59.45	560.31	0.00	0.00	4 424.53	100.00%

$$14.5\%[\text{DL} + \text{R}(\text{DL}) + \text{OH}(\text{DL}) + \text{IHDC}]$$

X				
---	--	--	--	--

PRINTED 12/10/2014, 2:08 PM
Page 3



Route	Hart Road
Section	at US 14
County	Lake
Job No.	Supplement #2
PTB/Item	

Sheet 1 of 1

Payroll Classification	Avg Hourly Rates	Total Project Rates			1 Wetland Delineation			2 Wetland Report /WIEF			3 JD Submittal			Hours	Wgtd Avg	% Part.	Hours	Wgtd Avg	% Part.
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg						
Principal	69.39	0																	
Senior Project Manager	59.25	0																	
Senior Transp. Planner	40.77	0																	
Senior Engineer III		0																	
Senior Engineer II	38.21	0																	
Senior Engineer I	38.09	0																	
Senior Scientist IV	49.45	0																	
Senior Scientist III	38.10	5	10.10%	3.85															
Senior Scientist II	30.52	37	74.75%	22.82	8	100.00%	30.52												
Senior Scientist I		0																	
Senior Geologist I	36.33	0																	
Transportation Planner		0																	
Project Engineer II	35.79	0																	
Project Engineer I	28.45	0																	
Project Scientist I	21.54	0																	
Project Geologist I	20.62	0																	
Staff Planner	30.14	0																	
Senior CADD I	39.57	0																	
CADD II	28.95	6	12.12%	3.51															
CADD I	17.96	0																	
Admin. Manager I	34.73	0																	
Administrative IV	23.78	1.5	3.03%	0.72															
Administrative III		0																	
Administrative II	21.12	0																	
Administrative I		0																	
Interns	15.38	0																	
		0																	
		0																	
		0																	
		0																	
		0																	
TOTALS		49.5	100%	\$30.89	8	100%	\$30.52	34	100%	\$30.72	7.5	100%	\$32.09	0	\$0.00	0%	0	\$0.00	\$0.00

HUFF & HUFF, INC.
SUMMARY OF INHOUSE DIRECT COSTS
 Project: TS - Hart Road Supplement #2

						<u>DIRECT</u>
Task 1 - Wetland Delineation						
Trips - Company	35 miles	x	2 x	\$ 0.56	= \$	39.20
Task Total						\$ 39.20
Task 2 - Wetland Report / WIEF						
Reproduction	3 sets	x	75 x	\$ 0.03	= \$	6.75
Color copies	3 sets	x	20 x	\$ 0.11	= \$	6.60
Task Total						\$ 13.35
Task 3 - JD Submittal						
Reproduction	3 sets	x	40 x	\$ 0.03	= \$	3.60
Color copies	3 sets	x	10 x	\$ 0.11	= \$	3.30
Task Total						\$ 6.90
GRAND TOTAL						\$ 59.45

F:\Proposals\Proposal-2014\TranSystems\Hart Road\TS Hart Road Supp #2 DC.xls\Inhouse Direct Costs



JORGENSEN & ASSOCIATES, INC.
CONSTRUCTION and LAND SURVEYORS
Est. 1990

December 10, 2014

Mr. Joseph W. Cwynar, P.E.
TranSystems Corporation
1475 East Woodfield Road
Suite 600
Schaumburg, Illinois 60173-5440

Re: Hart Road at U.S. Route 14 Supplemental Survey Proposal

Dear Mr. Cwynar:

Enclosed, please find our supplemental proposal to prepare an additional parcel and revise 9 sheets, 8 revised legal descriptions and monument 8 additional proposed R.O.W. corners for the existing land acquisition project, as contained in your email of December 5th.

Should you have any questions, comments or require any further information concerning our proposal, please feel free to call me at (847)356-3371.

Respectfully submitted,
Jorgensen & Associates, Inc.

Christian H. Jorgensen, P.L.S.
President

CHJ/pt

Enclosures

E:\TranSystems\US 14\Supplemental\LTR

Route: Hart Road
Section: @ U.S. Route 14
County: Lake
Job No.:

Exhibit "A"

Payroll Burden & Fringe Costs

	<u>% of Direct Productive Payroll</u>
Federal Insurance Contributions Act _____	11.55%
State Unemployment Compensation _____	3.08%
Federal Unemployment Compensation _____	0.11%
Workmen's Compensation Insurance _____	1.17%
Paid Holidays, Vacation, Sick Leave, Personal Leave _____	9.69%
Bonus _____	6.22%
Pension _____	0.82%
Group Insurance _____	<u>36.27%</u>
Total Payroll Burden & Fringe Costs	68.91%

Route: Hart Road
Section: @ U.S. Route 14
County: Lake
Job No.:

Exhibit "B"

Overhead and Indirect Costs

	<u>% of Direct Productive Payroll</u>
Business Insurance _____	4.95%
Depreciation _____	9.23%
Indirect wages and salaries _____	40.70%
Reproductive and printing costs _____	0.16%
Office Supplies _____	2.90%
Computer Costs _____	1.14%
Professional Fees _____	1.01%
Telephone _____	1.89%
Fees, license & dues _____	0.85%
Repairs and maintenance _____	0.84%
Business space rent _____	4.80%
Facilities - capital _____	0.28%
Travel - Meals _____	0.20%
Survey Supplies _____	3.43%
Automobile/travel expense _____	1.69%
Equipment Rental _____	0.89%
Miscellaneous Expense _____	0.79%
State Income Tax _____	1.22%
Postage _____	0.18%
Educational & Professional Registrations _____	<u>0.10%</u>
Total Overhead	77.25%

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME PRIME/SUPPLEMENT	Jorgensen & Associates, Inc. Prime	DATE PTB NO.	12/10/14
CONTRACT TERM START DATE RAISE DATE	12 MONTHS 2/1/2015 8/1/2015	OVERHEAD RATE COMPLEXITY FACTOR % OF RAISE	146.16% 3.00%

ESCALATION PER YEAR

2/1/2015 - 8/1/2015	8/2/2015 - 2/1/2016		
6	6		
12	12		

= 50.00%
= 1.0150
The total escalation for this project would be: 1.50%

PAYROLL RATES

FIRM NAME Jorgensen & Associates, DATE 12/10/14
PRIME/SUPPLEMENT Prime
PSB NO. _____

ESCALATION FACTOR 1.50%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Principal/Officer	\$44.00	\$44.66
Supervisor, P.L.S.	\$42.00	\$42.63
Survey Party Chief, S.I.T.	\$24.25	\$24.61
Instrument Operator	\$19.75	\$20.05
Cadd Supervisor	\$29.25	\$29.69
Administrative Assistant	\$19.25	\$19.54
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00

AVERAGE HOURLY PROJECT RATES

FIRM Jorgensen & Associates, Inc.
PSB
PRIME/SUPPLEMENT Prime

DATE 12/10/14

SHEET 1 OF 2

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJECT RATES						(1) Pre-Survey			(2) Survey Reconnaissance			(3) Project Survey Plan			(4) First Submittal Plat of			(5) Survey (Field)		
		Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg	Hours	% Part.	Wgtd Avg
Principal/Officer	44.00	0																				
Supervisor, P.L.S.	42.00	27	30.00%	12.80																		
Survey Party Chief, S	24.25	17	18.89%	4.58																		
Instrument Operator	19.75	17	18.89%	3.73																		
Cadd Supervisor	29.25	28	31.11%	9.10																		
Administrative Assist	19.25	1	1.11%	0.21																		
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
		0																				
TOTAL S		90	100%	\$30.23	1	100.00%	\$19.25	2	100%	\$22.00	1	100%	\$29.25	36	100%	\$35.27	32	100%	\$22.00			

Route: Hart Road
 Section: @ U.S. Route 14
 County: Lake
 Job No.:

**Supplemental
 Manhour Breakdown
 Land Acquisition Estimate**

Length of Project

Hart Road = $\pm 3,500' = \pm 0.663 \text{ mile}$

U.S. Route 14 = $\pm 3,800' = \pm 0.720 \text{ mile}$

Total Length = $\pm 7,300' = \pm 1.383 \text{ miles}$

1 Parcel & 4 Revised Parcels: 1 Fee Simple, 3 Fee Simple & Temporary Easement and 1 Permanent Easement & Temporary Easement.

1. Pre-Survey Phase
 Research available records

a.	Title Co.)	
)	
b.	Recorder's Office)	
)	
c.	I.D.O.T.)	
)	
d.	Utilities)	
)	
e.	Private Surveyors)	
)	
f.	Land Owners)	<u>1 MH</u>

Sub-total Item # 1 1 MH

2. Reconnaissance Survey 2 Men 2 MH

3.	Project Survey Plan		$\pm 2,640'$ /sheet-1 sheet	
a.	Alignment info)		
)		
b.	Existing R.O.W. info)		
)		
c.	Land line data)		
d.	Subdivision data)	1.0 hr./sht. x 2 =	<u>1 MH</u>
			Sub-total Item #3	1 MH
4.	First Submittal Plat of Highways & Descriptions			
a.	Ownership info)		
)		
b.	Total holding boundaries)		
)		
c.	Total holding area listing)		1 MH
)		
d.	Private survey info)		
)		
e.	Deed calculated closures)		
f.	Mark up existing plat of highways – 9 sheets			10 MH
g.	Layout and drafting – 6 sheets			
	16 hours x 1 man =			16 MH
	Total Holding sheets - 3 sheets			
	3 hours x 1 man =			3 MH
h.	Legal descriptions	9 descriptions		<u>6 MH</u>
			Sub-total Item #4	36 MH

5.	Survey (Field)		
a.	Monument center line alignments at 100 foot intervals		
b.	Reference center line alignments		
c.	Measure existing R.O.W., property & section lines 3 hours x 2 men =		6 MH
d.	Appraisal topography 5 hours x 2 men =		10 MH
e.	Monument & tie proposed right of way 8 hours x 2 men =		<u>16 MH</u>
		Sub-total Item #5	32 MH
6.	Survey (Office)		
a.	Compute traverse 1 hour x 1 man =		1 MH
b.	Compute existing R.O.W., property & section lines 1 hour x 1 man =		1 MH
c.	Compile appraisal topography 1 hour x 1 man =		1 MH
d.	Compute center line alignment		
e.	Compute proposed right of way 2 hours x 1 man =		<u>2 MH</u>
		Sub-total Item #6	5 MH

7.	Final Submittal Plat of Highways & Descriptions	
a.	Final drafting \pm 9 sheets 2 hours x 1 man =	2 MH
b.	Final descriptions 9 descriptions	1 MH
c.	Prepare and Record Monument Records	
d.	Assembly of final papers	<u> </u>
	Sub-total Item #7	3 MH
8.	Coordination Meetings	
9.	QC/QA	
a.	Check preliminary plats 9 sheets	5 MH
b.	Check preliminary legal descriptions 9 legal descriptions	3 MH
c.	Check final plats 9 sheets	1 MH
d.	Check final legal descriptions 9 legal descriptions	<u>1 MH</u>
	Total All Items	90 MH

Route: Hart Road
Section: @ U.S. Route 14
County: Lake
Job No.:

**Breakdown of
In House Direct Costs**

Item

4. First Submittal Plat of Highways & Descriptions

a. Plat of Highways Mylars
9 sheets @ \$5.00/sheet = \$ 45.00

5. Survey (Field)

a. Trips to project site – 2 ea.
± 50 miles/trip x 2 trips = ± 100 miles
± 100 miles @ \$0.55/mile = \$ 55.00

Total All Items \$ 100.00

Route: Hart Road
Section: @ U.S. Route 14
County: Lake
Job No.:

**Breakdown of
Services By Others**

Item

1. Pre-Survey Phase

a. Commitments for Title Insurance	
1 Commitment @ \$400.00 each =	\$ 400.00

