# KANE COUNTY

**DIVISION of TRANSPORTATION** 

Carl Schoedel, P.E. Director of Transportation County Engineer



41W011 Burlington Road St. Charles, IL 60175 Phone: (630) 584-1170 Fax: (630) 584-5265

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October 21, 2009

TO:

Jean Weems

County Board Office

FROM:

Linda Haines

SUBJECT:

Agreements

6 – IDOT Local Agency Agreement for Federal Participation for Preliminary Engineering for IL Route 64 from Randall Road to Burlington Road, Kane County Sec. #08-00389-00-TL with Document Vet Sheet. (Kane County Resolution #09-361) (This agreement does NOT need to be signed by the County Clerk.)

6 – Preliminary Engineering Services Agreement for Federal Participation with Delcan Corporation for IL Route 64 from Randall Road to Burlington Road, Kane County Sec. #08-00389-00-TL with Document Vet Sheet (Kane County Resolution #09-360)

#### TRANSMITTED FOR:

(	)	YOUR INFORMATION AND FILE
(	)	YOUR APPROVAL AND/OR CORRECTION
(	)	AS REQUESTED
( )	X )	SEE BELOW

REMARKS: Please have the Chairman sign, send to County Clerk for signature and seal, and then return to our office for further processing.

Thanks.

c:

Steve Coffinbargar Tom Szabo

Digned 10 27.09 Charles

#### RESOLUTION NO. 09 - 360

# APPROVING A PHASE II ENGINEERING SERVICES AGREEMENT WITH DELCAN CORPORATION FOR ILLINOIS ROUTE 64 TRAFFIC SIGNAL INTERCONNECTS FROM RANDALL ROAD TO BURLINGTON ROAD KANE COUNTY SECTION NO. 08-00389-00-TL

WHEREAS, Phase II Engineering services are required for the proposed Illinois Route 64 traffic signal interconnect improvement from Randall Road to Burlington Road with a connection to the Kane County Division of Transportation facility (hereinafter referred to as the "Project"); and

WHEREAS, in order to accomplish the Project, it is necessary to retain the services of a professional engineering firm to provide Phase II Engineering services; and

WHEREAS, Delcan Corporation, 650 East Algonquin Road, Suite 104, Schaumburg, IL 60173-3853 has experience and professional expertise in Phase II Engineering services and is willing to perform the required services for an amount not to exceed Three Hundred Ninety Nine Thousand Nine Hundred Fifty Two and 36/100 Dollars (\$399,952.36).

NOW, THEREFORE, BE IT RESOLVED by the Kane County Board that the Chairman thereof is hereby authorized to execute a Phase II Engineering services agreement for the Project with Delcan Corporation (a copy of which is on file with the County Clerk's Office).

BE IT FURTHER RESOLVED that the Kane County Board appropriate the not to exceed sum of. Three Hundred Ninety Nine Thousand Nine Hundred Fifty Two and 36/100 Dollars (\$399,952.36) from County Highway Fund #300, Line Item #50140 (Engineering) to pay for said Phase II Engineering services for the Project with approximately eighty percent (80%) reimbursement thereof from federal funds.

Γ	Line Item	Line Item	Was	Are funds currently	If funds are not
		Description	personnel/item/service	available for this	currently available in
			approved in original	personnel/item/service in	the specified line item,
			budget or a subsequent	the specified line item?	where are the funds
L			budget revision?		available?
Г	300.520.520.50140	Engineering	Yes	Yes	

Passed by the Kane County Board on September 8, 2009.

John A. Cunningham Clerk, County Board Kane County, Illinois

Karen McConnaughay Chairman, County Board Kane County, Illinois

Vote:

Yes No

Voice C

Abstentions \_\_\_\_\_

9IL64DLCANPHII.4LH

STATE OF ILLINOIS COUNTY OF KANE

DATE\_SEP 3 0 2000

I, John A. Cunningham, Kane County Clerk and Keeper of the Records in Kane County, Illinois do hereby certify that the attached is a true and correct copy of the original record on file.

In witness whereof, I have hereunto set my hand and affixed the Seal of the County of Kane at my office in Geneva, Illinois.

John A. Cunningham, Kane County Clerk

Local Agency	T			Consultan	Ĭ.		
Kane County DOT	_ O	Illinois Department of Transportation	C				
Kane	C	;	0		lgonguin Road,	Suito 104	
Section	- A		N	City	igoriquir ixoau,	Suite 104	
08-00389-00-TL	L		S	Schaum	hura		
Project No.	1	Preliminary Engineering	U	State	burg		
CMM-9003(204)	Α	A Preliminary Engineering G Services Agreement For Federal Participation C Y		IL			
Job No.	G			Zip Code		······································	
D-91-262-09	E			60173			
Contact Name/Phone/E-mail Address	N			Contact Name/Phone/E-mail Address			
Tom Szabo	C			Doug Brazelton			
630-208-3139	Y			847-925	-0120		
szabotom@co.kane.il.us				d.brazelton@delcan.com			
THIS AGREEMENT is made and entered in				,		en the above	
Local Agency (LA) and Consultant (ENGINE							т.
Federal-aid funds allotted to the LA by the s						sportation	
(STATE) will be used entirely or in part to fir	ance	engineering services as described un	der A	AGREEMEN	NT PROVISIONS.		
		Project Description					
		Project Description					
Name Illinois 64 Interconnect and Arteria	ıl Ops	Cnt Route IL 64/Burlington Leng	gth	5.5 mi.	Structure No.	N/A	
Termini Illinois Route 64 – Randall Road	to Bu	rlington Road and Burlington Road –	Ilino	s 64 to KD0	OT Office		
Description Provide traffic signal interconne Road to the LA's KDOT offices. Provide endevelop an integration plan for system integration	gineer	ing services to build and Arterial Ope	atior	ns Center (A	AOC) at the KDOT	offices and	

#### I. THE ENGINEER AGREES.

an AOC addition and ITS integration services pending funding availability.

1. To perform or be responsible for the performance, in accordance with STATE approved design standards and policies, of engineering services for the LA for the proposed improvement herein described.

**Agreement Provisions** 

- 2. To attend any and all meetings and visit the site of the proposed improvement at any reasonable time when requested by representatives of the LA or STATE.
- 3. To complete the services herein described within <u>550</u> calendar days from the date of the Notice to Proceed from the LA, excluding from consideration periods of delay caused by circumstances beyond the control of the ENGINEER.
- 4. The classifications of the employees used in the work should be consistent with the employee classifications and estimated manhours shown in EXHIBIT A. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are indicated in Exhibit A to be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the payroll rate for the work performed.
- 5. That the ENGINEER is qualified technically and is entirely conversant with the design standards and policies applicable for the PROJECT; and that the ENGINEER has sufficient properly trained, organized and experienced personnel to perform the services enumerated herein.
- 6. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections resulting from the ENGINEER's errors, omissions or negligent acts without additional compensation. Acceptance of work by the STATE will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or for clarification of any ambiguities.
- 7. That all plans and other documents furnished by the ENGINEER pursuant to this AGREEMENT will be endorsed by the ENGINEER and will affix the ENGINEER's professional seal when such seal is required by law. Plans for structures to be built as a part of the improvement will be prepared under the supervision of a registered structural engineer and will affix structural engineer seal when such seal is required by law. It will be the ENGINEER's responsibility to affix the proper seal as required by the Bureau of Local Roads and Streets manual published by the STATE.
- 8. That the ENGINEER will comply with applicable federal statutes, state of Illinois statutes, and local laws or ordinances of the LA.

- 9. The undersigned certifies neither the ENGINEER nor I have:
  - a. employed or retained for commission, percentage, brokerage, contingent fee or other considerations, any firm or person (other than a bona fide employee working solely for me or the above ENGINEER) to solicit or secure this AGREEMENT,
  - agreed, as an express or implied condition for obtaining this AGREEMENT, to employ or retain the services of any firm or person in connection with carrying out the AGREEMENT or
  - c. paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for me or the above ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
  - d. are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
  - e. have not within a three-year period preceding the AGREEMENT been convicted of or had a civil judgment rendered against them for commission of fraud or criminal offense in connection with obtaining, attempting to obtain or performing a public (Federal, State or local) transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements or receiving stolen property,
  - f. are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (e) and
  - g. have not within a three-year-period-preceding this AGREEMENT had one or more public transactions (Federal, State or local)
    terminated for cause or default.
- 10. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LA.
- 11. To submit all invoices to the LA within one year of the completion of the work called for in this AGREEMENT or any subsequent Amendment or Supplement.
- 12. To submit BLR 05613, Engineering Payment Report, to the STATE upon completion of the project (Exhibit B).

13.	Sco	pe of Services to be provided by the ENGINEER:
		Make such detailed surveys as are necessary for the planning and design of the PROJECT.
		Make stream and flood plain hydraulic surveys and gather both existing bridge upstream and downstream high water data and flood flow histories.
		Prepare applications for U.S. Army Corps of Engineers Permit, Illinois Department of Natural Resources Office of Water Resources Permit and Illinois Environmental Protection Agency Section 404 Water Quality Certification.
		Design and/or approve cofferdams and superstructure shop drawings.
		Prepare Bridge Condition Report and Preliminary Bridge Design and Hydraulic Report, (including economic analysis of bridge or culvert types and high water effects on roadway overflows and bridge approaches).
		Prepare the necessary environmental and planning documents including the Project Development Report, Environmental Class of Action Determination or Environmental Assessment, State Clearinghouse, Substate Clearinghouse and all necessary environmental clearances.
		Make such soil surveys or subsurface investigations including borings and soil profiles as may be required to furnish sufficient data for the design of the proposed improvement. Such investigations to be made in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE.
		Analyze and evaluate the soil surveys and structure borings to determine the roadway structural design and bridge foundation.
		Prepare preliminary roadway and drainage structure plans and meet with representatives of the LA and STATE at the site of the improvement for review of plans prior to the establishment of final vertical and horizontal alignment, location and size of drainage structures, and compliance with applicable design requirements and policies.
		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.
	$\boxtimes$	Complete the general and detailed plans, special provisions and estimate of cost. Contract plans shall be prepared in accordance with the guidelines contained in the Bureau of Local Roads and Streets manual. The special provisions and detailed estimate of cost shall be furnished in quadruplicate.
		Furnish the LA with survey and drafts in quadruplicate all necessary right-of-way dedications, construction easements and borrow pit and channel change agreements including prints of the corresponding plats and staking as required.

#### II. THE LA AGREES,

- 1. To furnish the ENGINEER all presently available survey data and information
- To pay the ENGINEER as compensation for all services rendered in accordance with this AGREEMENT, on the basis of the following compensation formulas:

Cost Plus Fixed Fee		= 14.5%[DL + R(DL) + OH(DL) + IHDC], or = 14.5%[DL + R(DL) + 1.4(DL) + IHDC], or = 14.5%[(2.3 + R)DL + IHDC]	
	Where:	DL = Direct Labor IHDC = In House Direct Costs OH = Consultant Firm's Actual Overhead Factor R = Complexity Factor	
Specific Rate	☐ (Pay pe	er element)	

3. To pay the ENGINEER using one of the following methods as required by 49 CFR part 26 and 605 ILCS 5/5-409:

☐ With Retainage

Lump Sum

- For the first 50% of completed work, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to 90% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- After 50% of the work is completed, and upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments covering work performed shall be due and payable to the ENGINEER, such payments to be equal to 95% of the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- c) Final Payment Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and the STATE, a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
- a) For progressive payments Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LA, monthly payments for the work performed shall be due and payable to the ENGINEER, such payments to be equal to the value of the partially completed work minus all previous partial payments made to the ENGINEER.
- b) Final Payment Upon approval of the work by the LA but not later than 60 days after the work is completed and reports have been made and accepted by the LA and STATE, a sum o money equal to the basic fee as determined in this AGREEMENT less the total of the amounts of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.
- 4. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any DOT-assisted contract or in the administration of its DBE program or the requirements of 49 CFR part 26. The recipient shall take all necessary and reasonable steps under 49 CFR part 26 to ensure nondiscrimination in the award and administration of DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by DOT, is incorporated by reference in this agreement. Implementation of this program is a legal obligation and failure to carry out its terms shall be treated as violation of this agreement. Upon notification to the recipient of its failure to carry out its approved program, the Department may impose sanctions as provided for under part 26 and may, in appropriate cases, refer the matter for enforcement under 18 U.S.C. 1001 and/or the Program Fraud Civil Remedies Act of 1986 (31U.S.C. 3801 et seq.).

#### III. IT IS MUTALLY AGREED,

- 1. That no work shall be commenced by the ENGINEER prior to issuance by the LA of a written Notice to Proceed.
- 2. That tracings, plans, specifications, estimates, maps and other documents prepared by the ENGINEER in accordance with this AGREEMENT shall be delivered to and become the property of the LA and that basic survey notes, sketches, charts and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request, to the LA or to the STATE, without restriction or limitation as to their use.
- 3. That all reports, plans, estimates and special provisions furnished by the ENGINEER shall be in accordance with the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Administrative Policies, Federal-Aid Procedures for Local Highway Improvements or any other applicable requirements of the STATE, it being understood that all such furnished documents shall be approved by the LA and the STATE before final acceptance. During the performance of the engineering services herein provided for, the ENGINEER shall be responsible for any loss or damage to the documents herein enumerated while they are in the ENGINEER's possession and any such loss or damage shall be restored at the ENGINEER's expense.

- 4. That none of the services to be furnished by the ENGINEER shall be sublet, assigned or transferred to any other party or parties without written consent of the LA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall not be construed to relieve the ENGINEER of any responsibility for the fulfillment of this agreement.
- 5. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amounts, recipients and uses of all disbursements of funds passing in conjunction with the contract; the contract and all books, records and supporting documents related to the contract shall be available for review and audit by the Auditor General and the STATE; and to provide full access to all relevant materials. Failure to maintain the books, records and supporting documents required by this section shall establish a presumption in favor of the STATE for the recovery of any funds paid by the STATE under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
- 6. The payment by the LA in accordance with numbered paragraph 3 of Section II will be considered payment in full for all services rendered in accordance with this AGREEMENT whether or not they be actually enumerated in this AGREEMENT.
- 7. That the ENGINEER shall be responsible for any and all damages to property or persons arising out of an error, omission and/or negligent\_act\_in\_the\_prosecution\_of\_the\_ENGINEER's\_work\_and\_shall\_indemnify\_and\_save\_harmless\_the\_LA, the\_STATE, and-their\_officers, agents and employees from all suits, claims, actions or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
- 8. This AGREEMENT may be terminated by the LA 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 LA all drawings, plats, surveys, reports, permits, agreements, soils and foundation analysis, provisions, specifications, partial and completed estimates and data, if any from soil survey and subsurface investigation with the understanding that all such material becomes the property of the LA. The LA will be responsible for reimbursement of all eligible expenses to date of the written notice of termination.
- 9. This certification is required by the Drug Free Workplace Act (30ILCS 580). The Drug Free Workplace Act requires that no grantee or contractor shall receive a grant or be considered for the purpose of being awarded a contract for the procurement of any property or service from the State unless that grantee or contractor will provide a drug free workplace. False certification or violation of the certification may result in sanctions including, but not limited to, suspension of contract or grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the State for at least one (1) year but no more than five (5) years.

For the purpose of this certification, "grantee" or "contractor" means a corporation, partnership or other entity with twenty-five (25) or more employees at the time of issuing the grant, or a department, division or other unit thereof, directly responsible for the specific performance under a contract or grant of \$5,000 or more from the State, as defined in the Act.

The contractor/grantee certifies and agrees that it will provide a drug free workplace by:

- a. Publishing a statement:
  - (1) Notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance, including cannabis, is prohibited in the grantee's or contractor's workplace.
  - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
  - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
    - (a) abide by the terms of the statement; and
    - (b) notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- b. Establishing a drug free awareness program to inform employees about:
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's or contractor's policy of maintaining a drug free workplace;
  - (3) Any available drug counseling, rehabilitation and employee assistance program; and
  - (4) The penalties that may be imposed upon an employee for drug violations.
- c. Providing a copy of the statement required by subparagraph (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- d. Notifying the contracting or granting agency within ten (10) days after receiving notice under part (B) of paragraph (3) of subsection (a) above from an employee or otherwise receiving actual notice of such conviction.
- e. Imposing a sanction on, or requiring the satisfactory participation in a drug abuse assistance or rehabilitation program by,
- f. Assisting employees in selecting a course of action in the event drug counseling, treatment and rehabilitation is required and indicating that a trained referral team is in place.
- g. Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act.
- 10. The ENGINEER or subconsultant shall not discriminate on the basis of race, color, national origin or sex in the performance of this AGREEMENT. The ENGINEER shall carry out applicable requirements of 49 CFR part 26 in the administration of DOT assisted contracts. Failure by the ENGINEER to carry out these requirements is a material breach of this AGREEMENT, which may result in the termination of this AGREEMENT or such other remedy as the LA deems appropriate.

### **Agreement Summary**

Prime Consultant:	TIN Number Agreement Amount
Delcan Corporation	36-3523452 395,750.66
Sub-Consultants:	TIN Number Agreement Amount
N/A	
	Sub-Consultant Total:
	Prime Consultant Total: 395,750.66
	Total for all Work:   395,750.66
•	
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Executed by the LA:	County of Kane
	(Municipality/Township/County)
ATTEST:	To 10/2/
By:	By: / Mah Commenagem
<u> </u>	
John A. Cunningham, County Clerk	Title: Chairman, County Board
(SEAL)	΄ , , , , , , , , , , , , , , , , , , ,
Executed by the ENGINEER:	
2,000,000,000,000	
ATTEST:	Delcan Corporation
//// (9 1)	$\alpha$
By 'V'	By: Ingl But

Title:

Regional Vice President

Lester T. Yoshida, President

### **Exhibit A - Preliminary Engineering**

Route: II	_64 - Randall	to Burlington and Burlington	To KDOT
Local Agency:	Kane Cour	nty	
	(Municipality/	Township/County)	
Section:	08-00389-00	-TL	
Project:	CMM-9003(2	204)	
Job No.:	D-91-262-09		_
Method of Con	npensation:		
Cost Plus Fixe	d Fee 1	14.5%[DL + R(DL) + OH	(DL) + IHDC]
Cost Plus Fixe	d Fee 2	$\boxtimes$ 14.5%[DL + R(DL) + 1.4(	• •
Cost Plus Fixe	d Fee 3	14.5%[(2.3 + R)DL + IHD	•
Specific Rate			•
Lump Sum		一	
		<del></del>	

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

Overhead Rate (OH) 1.835 %
Complexity Factor (R) 0.00
Calendar Days 550

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

Element of Work	Employee Classification	Man- Hours	Payroll Rate	Payroll Costs (DL)	Overhead*	Services by Others	Dire	-House ect Costs (IHDC)	Profit	Total
PS&E interconnect &	Senior Mngmt.	37	70.00	2,590.00	4,752.65		7,11	7.00	1,933.29	16,392.94
Arterial Ops Center	PS-5	191	56.39	10,770.49	19,763.85				3,748.13	34,282.47
	PS-4	224	54.84	12,284.16	22,541.43				4,274.89	39,100.48
	PS-3	351	39.69	13,931.19	25,563.73				4,848.05	44,342.97
	PS-1&2	504	25.02	12,610.08	23,139.50				4,388.31	40,137.89
	TS-2	326	17.33	5,649.58	10,366.98				1,966.05	17,982.61
	Contracts/Admin	10	17.55	175.50	322.04		ļ.,_		61.07	558.61
Integration Study &	Senior Mngmt.	25	70.00	1,750.00	3,211.25		1.22	4.00	786.48	6,971.73
Functional Regmnts.	PS-5	100	56.39	5.639.00	10,347.57		-		1,962.37	17,948.94
	PS-4	125	54.84	6,855.00	12,578.93		-		2,385.54	21,819.47
	PS-3 PS-1&2	175 200	39.69 25.02	6,945.75 5.004.00	12,745.45 9,182.34		-		2,417.12 1,741.39	22,108.32 15,927.73
	TS-2	253	17.33	4,384.49	8,045.54		<del> </del>		1,525.80	13.955.83
- CAMPAN AND AND AND AND AND AND AND AND AND A										
	Contracts/Admin	2	17.55	35.10	64.41				12.21	111.72
Optional Task - AOC	Senior Mngmt.	35	70.00	2,450.00	4,495.75		612.	00	941.34	8,499.09
Addition and ITS	PS-5	100	56.39	5,639.00	10,347.57				1,962.37	17,948.94
Integration	PS-4	125	54.84	6,855.00	12,578.93				2,385.54	21,819.47
	PS-3	150	39.69	5,953.50	10,924.67				2,071.82	18,949.99
	PS-1&2	200	25.02	5,004.00	9,182.34				1,741.39	15,927.73
	TS-2	175	17.33	3,032.75	5,565.10				1,055.40	9,653.25
	Contracts/Admin	2	17.55	35.10	64.41				12.21	111.72
Optional Task -	PS-5	5	56.39	281.95	517.38		612	00	186.86	1,598.19
Construction Support	PS-4	55	54.84	3,016.20	5,534.73				1,049.64	9,600.57
Totals		3370		120,891.84	221,836.53		9,56	5.00	43,457.29	395,750.66

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#### **Exhibit B**



## **Engineering Payment Report**

	·		
ame	N/A		
ddress	**************************************		
elephone	***************************************	ANALOS CONTRACTOR CONT	
IN Number		The state of the s	
	4.77100000000000000000000000000000000000	***************************************	
Project Information			
ocal Agency			
Section Number			
Project Number			
lob Number			
his form is to verify the rjury or falsification,	ne amount paid to the Sub-consultant on the the undersigned certifies that work was exec	cuted by the Sub-consultant	for the amount listed belo
	Sub-Consultant Name	TIN Number	Actual Payment
<b>λ</b> . Λ			from Prime
NT			
•			
			•
Manager 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	· · · · · · · · · · · · · · · · · · ·		
		Sub-Consultant Total:	
		Prime Consultant Total:	
		Prime Consultant Total: Total for all Work	
		Prime Consultant Total:	
		Prime Consultant Total: Total for all Work	

Note: The Department of Transportation is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under state and federal law. Disclosure of this information is REQUIRED and shall be deemed as concurring with the payment amount specified above.

### **DELCAN PAYROLL AND DIRECT COSTS EFFECTIVE 9/28/2009**

HOURLY WAGE RATES

CLASSIFICATION		LAST NAME	FIRST NAME	HOURLY RATE (\$)	WEIGHTED AVERAGE
Senior Management		Brahm	Joseph	72.12	70.40
Chief Engineer		Paesani	Gordon	65.60	72.12
Destar :   Otaff 5 (DO 5)		Danaltan	Davis	50.00°	65.60
Professional Staff 5 (PS 5)		Brazelton Gopol	Doug Ranjit	56.92 55.84	
		Sanders	Barbara	54.20	
					55.65
Professional Staff 4 (PS 4)		Gibbons	Dan	56.32	
		Irwin	David	43.28	
•		Lee	Scott	56.44	
		Reinholz	Jeff	54.08	
		Wu	Wei	60.48	m. 4.40
			•		54.12
Technical Staff 4 (TS 4)		Nistor	Mircea	55.44	
					55.44
Professional Staff 3 (PS 3)		Albert	Anita	37.48	
		Loosev	Dmitri	42.56	
		Puckett	Dustin	45.04	
		William	Bini	31.60	
					39.17
Tarabasia at Olaff 0 /TO 0)		() (= ===+)		05.00	
Technical Staff 3 (TS 3)		(Vacant)		25.00	25.00
•					
Professional Staff 1&2 (PS 1&2)		Arora	Anshu	26.56	
		Clark	Peter	18.36	
		Hall	Deirdre	30.80	
		Judkins	Preston	23.56	
		Klos	Daniel	20.80	
		Malcolm	Joseph	28.08	
					24.69
Technical Staff 2 (TS 2)		Momotov	Yuriy	15.52	
recinical Stail 2 (10 2)		Walton	Sarah	18.68	
		vvaltori	Garan	10.00	17.10
Technical Staff 1 (TS 1)		(Vacant)		12.00	
					12.00
Contracts & Admin.		Ledbetter	Laura	17.32	
Dominacis & Admin.		Leabettel	Laura	17.32	17.32
Delcan Direct Expenses					
Гravel (Car)	<b>€</b>	\$ 0.51/Mile			
Automatic Traffic Recorder	@	\$ 10.00/Day			
Count Boards	@	\$ 5.00/Day			
Film / Developing	@	\$ Actual Cost			
Photocopies	@	\$ 0.15/Copy	h		
Cell Phone for Implementation	@	\$ 45.00/month/p	none		

# PAYROLL ESCALATION TABLE FIXED RAISES

PRIME/SUPPLEMENT	Prime		PTB NO.	AOC Design and IL 64 In	iterconect	
	CONTRACT TER START DAT RAISE DAT	E 1/4/2009	NTHS OVERHEA COMPLEX % OF RAIS	(ITY FACTOR	183,50% 0 3.00%	
		ESCALATION PER YEA	AR			•
	1/4/2009 - 10/18/2009	10/19/2009 - 6/18/2010				
	10 18	<u>8</u> 18				
	= 55.56% = 1.0133 The total escalation for th	45.78% is project would be:	1.33%			

# **PAYROLL RATES**

FIRM NAME PRIME/SUPPLEMENT PSB NO. Delcan Corp. DA

10/13/09

LEMENT Prime

AOC Design and IL 64 Interconect

**ESCALATION FACTOR** 

1.33%

CLASSIFICATION	CURRENT RATE	CALCULATED RATE
Conjoy Managament	\$72.12	\$70.00
Senior Management		
Chief Engineer	\$65.60	\$66.47 \$56.39
Professional Staff 5 Professional Staff 4	\$55.65	\$54.84
	\$54.12 \$39.17	\$39.69
Professional Staff 3	· ·	·
Professional Staff 1&2 Technical Staff 4	\$24.69	\$25.02
Technical Staff 3	\$55.44 \$25.00	\$56.18 \$25.33
Technical Staff 2	\$25.00 \$17.10	\$17.33
Technical Staff 1	\$17.10 \$12.00	\$17.33 \$12.16
Contracts & Administration	\$17.32	\$17.55
Contracts & Administration	\$17.32	\$0.00
		\$0.00
		\$0.00
		\$0.00
		\$0.00
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		\$0.00
		\$0.00
		\$0.00

# EXHIBIT A-1 COST PLUS FIXED FEE COST ESTIMATE OF CONSULTANT SERVICES

DF-824-039 REV 12/04

FIRM

Delcan Corp.

DATE

10/13/09

PSB PRIME/SUPPLEMENT AOC Design and IL 64 Interconect Prime

OVERHEAD RATE COMPLEXITY FACTOR 1.835 0

DBE				OVERHEAD	IN-HOUSE		Outside	SERVICES			% OF
DROP	ITEM	MANHOURS	PAYROLL	&	DIRECT	FIXED	Direct	BY	DBE	TOTAL	GRAND
BOX			j	FRINGE BENF	COSTS	FEE	Costs	OTHERS	TOTAL	ļ	TOTAL
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(B-G)	
	1-Coord., Meet., and PM for PS&E tasks only	66	2,674.19	4,907.14	612.00	1,019.36				9,212.68	2.33%
	2-Pre-meet/Plans/Vendors	31	1,526.81	2,801.70	306.00	575.70				5,210.21	1.32%
	3-Field Review/Inventory	40	1,456.73	2,673.09	612.00	595.68				5,337.50	1.35%
	4-Design Cable Route	36	1,387.42	2,545.91		482.82				4,416.14	1.12%
	5-Design Field Comm.	96	3,551.69	6,517.36		1,235.99				11,305.04	2.86%
	6-Arterial Ops Center Design and Concept of Operations	829	29,832.56	54,742.74	2,377.00	10,726.40				97,678.70	24.68%
_	7-Preliminary Plan Submittal	362	11,117.93	20,401.41	900.00	3,999.54				36,418.89	9.20%
	8-Pre-Final Plan Submittal	115	4,114.10	7,549.37	990.00	1,575.26				14,228.72	3.60%
	9-Final PS&E	68	2,350.10	4,312.42	1,320.00	1,009.23				8,991.75	2.27%
_	10-integration study and functional requirements	880	30,613.48	56,175.73	1,224.00	10,830.97				98,844.18	24.98%
	11-Optional task - AOC addition and ITS integration services	787	28,969.59	53,159.19	612.00	10,170.16				92,910.94	23.48%
	12-Optional task - Construction support	60	3,298.25	6,052.29	612.00	1,236.53				11,199.06	2.83%
						-					
<u> </u>								<u> </u>			
											-
	Subconsultant DL					0.00				0.00	0.00%
	TOTALS	3370	120,892.84	221,838.35	9,565.00	43,457.63	0.00	φ.	0.00	395,753.82	100.00%

DBE 0.00%

# EXHIBIT A-2 AVERAGE HOURLY PROJECT RATES

FIRM

Delcan Corp.

PSB A PRIME/SUPPLEMENT P

AOC Design and IL 64 Interconect

Prime

DATE 10/13/09

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1 OF 5

PAYROLL	AVG	TOTAL PROJECT RATES			1-Coord	I., Meet., a	ad DM fo	2.Pro.m	eet/Plans	Vendore	3.Field	Review/Inv	entor.	4-Deci	gn Cable R	outo	5-Desig	n Field Co	omm
PAIROLL	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Watd	Hours	%	Watd	Hours		Wgtd		n Field Ci	Wgtd
CLASSIFICATION	RATES	nouis	Part.	Avg	nours	Part.	Avg	nouis	Part.	Avg	nouis	Part.	Avg	Hours	Part.	Avg	Hours	Part.	Avg
Senior Management	70.00	97	2.88%	2.01	4	6.06%	4.24		1 uit.		<b>-</b>		Avg	-	1 416	Avg	<u> </u>	1 011.	Avg
Chief Engineer	66.47	0	2.0070			0,00,0					<del> </del>			<del> </del>	+		<b>-</b>		
Professional Staff 5	56.39	396	11.75%	6.63	16	24.24%	13.67	10	32.26%	18.19	8	20.00%	11 28	8	22.22%	12.53	4	4.17%	2.35
Professional Staff 4	54.84	529	15.70%	8.61	8	12.12%	6.65	10	32.26%	17.69	8	20.00%	10.97	8	22.22%	12.19	28	29.17%	16.00
Professional Staff 3	39.69	676	20.06%	7.96	8	12.12%	4.81	10	32.26%	12.80	4	10.00%	3.97	4	11.11%	4.41	15	15.63%	6.20
Professional Staff 1&2	25.02	904	26.82%	6.71	28	42.42%	10.61				8	20.00%	5.00	8	22.22%	5.56	45	46.88%	11.73
Technical Staff 4	56.18	0												1					
Technical Staff 3	25.33	0												1					
Technical Staff 2	17.33	754	22.37%	3.88							12	30.00%	5.20	8	22.22%	3.85	4	4.17%	0.72
Technical Staff 1	12.16	0												•					
Contracts & Administration	17.55	14	0.42%	0.07	2	3.03%	0.53	1	3.23%	0.57				1					
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TOTALS		3370	100%	\$35.87	66	100.00%	\$40.52	31	100%	\$49.25	40	100%	\$36.4	2 36	100%	\$38.54	96	100%	\$37.00

## **EXHIBIT A-2 AVERAGE HOURLY PROJECT RATES**

FIRM

PRIME/SUPPLEMENT

Delcan Corp.

**PSB** AOC Design and IL 64 Interconect

Prime

DATE

10/13/09

SHEET

2 OF 5

	AVG	o-Arteria	l Ops Cente	r Design a	7-Prelimi	nary Plan S	Submittal	8-Pre-Fin	al Plan Sub	mittal	9-Final P	S&E		10-integr	ration study	and funct	11-Optio	nal task - A	OC addition
	HOURLY		%		Hours	%		Hours	%		Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Senior Management	70.00	33	3.98%	2.79				. 1						25	2.84%	1.99	35	4.45%	3.11
Chief Engineer	66.47																		
Professional Staff 5	56.39	108	13.03%	7.35	20	5.52%	3.12	12	10.43%	5.88	5	7.35%	4.15	100	11.36%	6.41	100	12.71%	7.17
Professional Staff 4	54.84	120	14.48%	7.94	20	5.52%	3.03	12	10.43%	5.72	10	14.71%	8.06	125	14.20%	7.79	125	15.88%	8.71
Professional Staff 3	39.69	150	18.09%	7.18	100	27.62%	10.96	40	34.78%	13.81	20	29.41%	11.67	175	19.89%	7.89	150	19.06%	7.57
Professional Staff 1&2	25.02	215	25.93%	6.49	140	38.67%	9.68	40	34.78%	8.70	20	29.41%	7.36	200	22.73%	5.69	200	25.41%	6.36
Technical Staff 4	56.18																		
Technical Staff 3	25.33																		
Technical Staff 2	17.33	200	24.13%	4.18	80	22.10%	3.83	10	8.70%	1.51	12	17.65%	3.06	253	28.75%	4.98	175	22.24%	3.85
Technical Staff 1	12.16																		
Contracts & Administration	17.55	3	0.36%	0.06	2	0.55%	0.10	1	0.87%	0.15	1	1.47%	0.26	2	0.23%	0.04	2	0.25%	0.04
																		"	
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TOTALS		829	100%	\$35.99	362	100%	\$30.71	115	100%	\$35.77	68	100%	\$34.56	880	100%	\$34.79	787	1000/	\$36.81

### **AVERAGE HOURLY PROJECT RATES**

FIRM

Delcan Corp.

PSB

AOC Design and IL 64 Interconect

PRIME/SUPPLEMENT Prime

Prime

DATE

10/13/09

SHEET

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3 OF 5

PAYROLL			nal task - Co	onstructio															
	HOURLY	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd	Hours	%	Wgtd
CLASSIFICATION	RATES	<b>i</b> i	Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg		Part.	Avg
Senior Management	70.00																		1
Chief Engineer	66.47			·					_										
Professional Staff 5	56.39	5	8.33%	4.70															
Professional Staff 4	54.84	55	91.67%	50.27														***	
Professional Staff 3	39.69											W)							
Professional Staff 1&2	25.02																		
Technical Staff 4	56.18																		1
Technical Staff 3	25.33																		1
Technical Staff 2	17.33											***************************************							1
Technical Staff 1	12.16																		
Contracts & Administra	17.55											<u> </u>							1
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TOTALS		60	100%	\$54.97	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00	0	0%	\$0.00

# Exhibit A - Continued

## AOC and IL 64 Interconnect Direct Costs

Work Task	Direct Cost Calculations	Cost
	20 round trips X 60 miles X \$0.51/mile @ KDOT	
Coord., Meet., and PM	and/or Vendors =	\$612.00
Pre-meet/Obtain Plans	10 round trips X 60 miles X \$0.51/mile @ KDOT =	\$306.00
Field Review/Inventory	20 round trips X 60 miles X \$0.51/mile @ KDOT =	\$612.00
Design Cable Route	N/A	\$0.00
Desgin Field Comm.	N/A	\$0.00
-	45 round trips X 60 miles X \$0.51/mile + \$1000 for	
Arterial Ops Center Design and Concept of Operations	renderings of up to 3 AOC locations	\$2,377.00
Preliminary Plan Submittal	6 sets X 120 sheets X \$1.25	\$900.00
	6 sets X 120 sheets X \$1.25 + 6 sets (spec) X 100	
Pre-Final Plan Submittal	Sheets X \$0.15/sheet	\$990.00
	8 sets X 120 sheets X \$1.25 + 8 sets (spec) X 100	
Final PS&E	Sheets X \$0.15/sheet	\$1,320.00
	40 round trips X 60 miles X \$0.51/mile @ KDOT	
Integration Study and Functional Requirements	and/or Vendors =	\$1,224.00
	20 round trips X 60 miles X \$0.51/mile @ KDOT	
Optional Task - AOC addition and ITS integration Services	and/or Vendors =	\$612.00
	20 round trips X 60 miles X \$0.51/mile @ KDOT	
Construction Support	and/or Vendors =	\$612.00

Total for PS&E = \$7,117

Total = \$9,565.00

Location: Illinois Route 64 - Randall Road to Burlington Road and Burlington Road - Illinois Route 64 to KDOT office

Section No.: 08-00389-00-TL Project No.: CMM-9003(204)

Job No.: D-91-262-09 Type of Funding: STA Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### INTRODUCTION

This agreement provides for engineering services to prepare a PS&E package for the installation of Fiber Optic Interconnect to the Kane County Division of Transportation Offices north along Burlington Road from the signalized intersection at Illinois 64. The interconnect will also travel east along Illinois 64 to Oak Street where a proposed IDOT traffic signal is to be installed. The proposed installation from Oak Street east along Illinois 64 to Randall Road of IDOT fiber optic. interconnect will complete the KDOT fiber network. Additionally, the PS&E package will include plans for an Arterial Operations Center (AOC) at the KDOT offices. The location, extent, and scope of the AOC will be determined through a concept of operations, availability of funding review, and a facility layout and design rating for potential locations at the County DOT Building. A system integration and implementation phasing plan study for the existing and proposed ITS devices will be performed. A detailed implementation phasing plan will be developed for the existing and proposed devices. As part of the Implementation Phasing Plan, functional requirements for the system integration will also be developed. Additional tasks that may be included in funding is available include the build-out of an Arterial Operations Center at the KDOT office and ITS integration services. Finally, if funding is available, construction support will be provided.

The work will be accomplished as detailed in the following tasks. Subtasks under each task further define the scope of work in the following sections:

TASK 1	Coordination, review meetings and project management
TASK 2	Obtain roadway plans and pre-inventory meeting
TASK 3	Field review and inventory with KDOT traffic engineering/signal maintenance
	staff and coordinate with IDOT on traffic signal cabinet use/upgrades
TASK 4	Design cable route
TASK 5	Design field communications to vendor requirements and future uses
TASK 6	Arterial Operations Center (AOC) design, Concept of Operations and staffing
	plan
TASK 7	Prepare preliminary plan sheets
TASK 8	Prepare pre-final plan sheets
TASK 9	Prepare final PS&E package
TASK 10	ITS system integration study and functional requirements
TASK 11	Optional Task – AOC design for an addition to the DOT building and other ITS
	integration support services
TASK 12	Optional Task - Construction support

Detailed task descriptions are provided in the following sub-sections

# TASK 1: COORDINATION, REVIEW MEETINGS, AND PROJECT MANAGEMENT

#### PURPOSE:

The purpose of this task is to help KDOT coordinate the project, schedule meetings with necessary persons/agencies, and maintain budgets and schedules.

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### INPUTS:

- Delcan Project Management Information System.
- Regular updates from all members of the project team concerning work completed and any outstanding issues.
- This scope of work.
- Monthly status meetings and/or reports.

#### **ACTIVITIES:**

- Maintain project schedule, budget and scope.
- Coordinate and manage day-to-day project activities with the Delcan team and the client project team.
- Provide project invoices and status reports.
- Continuously monitor and track project schedules, budgets and critical path items. To the extent possible, anticipate potential problems so they can be addressed prior to causing unrecoverable damage to the project schedule, budget or scope.
- Work closely with the KCDOT project management team to resolve any identified issues.

#### DELIVERABLES TO KANE COUNTY:

- Monthly status reports on progress of the project with potential problems highlighted.
- Monthly invoices detailing work accomplished against anticipated progress.
- Minutes of meetings between the KDOT and Delcan, summaries of meetings with other interests.
- Baseline project schedule and applicable schedule updates as well as cost reports with any problems explained and solutions proposed.
- Correspondence relevant to project.

#### **ASSUMPTIONS**

None

#### TASK 2: OBTAIN ROADWAY PLANS AND PRE-INVENTORY MEETING

#### PURPOSE:

The purpose of this task is to gather existing data about the current traffic signals along the fiber route and existing base maps for Illinois 64 and Burlington Road. The pre-inventory meeting will provide input to Delcan personnel to tailor the field review to be efficient and at the same time thorough.

#### INPUTS:

- Existing base maps preferably in Microstation format.
- Meeting with Kane County staff including IT and communications

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

- Kane County current communication standards for traffic signal interconnects
- PS&E packages from adjacent interconnect jobs

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Schedule and coordinate meeting with Kane County
- Request required information from County

#### DELIVERABLES TO KANE COUNTY:

- Meeting minutes summary
- Assumptions/Plan for entering the building with the fiber run

#### ASSUMPTIONS:

• Base maps will be in microstation format or in scannable format by Delcan personnel.

#### TASK 3: FIELD REVIEW AND INVENTORY

#### PURPOSE:

The purpose of this task is to due a complete field inventory of existing conditions of the traffic signal installations, communications network, and roadway elements that may affect installation.

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Open signal cabinets along fiber route that may be used
- Note existing communications equipment
- Photograph each open cabinet for documentation
- Takes notes on existing equipment, fiber termination, controller model and software version, space availability for Ethernet switches, and all other equipment/features as specified by KDOT
- Confirm existing handhole locations and conduit runs if possible
- Note and photograph any roadside elements that may interfere with the fiber run
- Hold coordination meeting with IDOT on cabinet use and upgrades required for Ethernet equipment

#### DELIVERABLES TO KANE COUNTY:

- Documentation of field review including notes, photographs, and inventory summary
- Notes from review meeting w/IDOT and course of action for cable route and traffic signal cabinet usage and upgrades

#### ASSUMPTIONS

Delcan staff will be approved to access KDOT controller cabinets

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### TASK 4: DESIGN CABLE ROUTE

#### PURPOSE:

The purpose of this task is to design the fiber optic cable route to maximize efficiency and cost through an Ethernet based communications network.

#### INPUTS:

- Pre-inventory meeting minutes
- Field inventory notes, pictures, summary
- Existing base maps

Activities to be completed by Delcan:

Design cable route for fiber backbone

DELIVERABLES TO KANE COUNTY:

• Draft cable route design for review

#### Assumptions

• None.

# TASK 5: DESIGN FIELD COMMUNICATIONS TO KDOT REQUIREMENTS AND FUTURE USES

#### PURPOSE:

The purpose of this task is to design the communications equipment necessary to complete the Ethernet communications network to go onto the fiber backbone.

#### INPUTS:

- Traffic controller vendor requirements for Ethernet communications
- Field review inventory and summary
- Cable route design

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Hold coordination meeting with traffic signal vendor and communications personnel (Brown/TSS)
- Design communications network to accommodate current transportation communications needs and include consideration for future use and integrations

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### DELIVERABLES TO KANE COUNTY:

• Communications network design with equipment call-out and wiring diagram

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None.

#### TASK 6: ARTERIAL OPERATIONS CENTER DESIGN

#### PURPOSE:

The purpose of this task is to help KDOT plan and design an Arterial Operations Center (AOC) at the Kane County DOT offices. A concept of operations plan will be developed as part of this task as well as a staffing plan for the AOC.

#### INPUTS:

- Kane County ITS Strategic Plan
- Inventory of Devices
- Operational Characteristics
- Inter-agency operational relationships
- Input from KDOT staff

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Review of the existing Kane County ITS Strategic Plan and feasibility study for the Arterial Operations Center (AOC)
- KDOT Staff Interviews and Current Operations
- Review all current KDOT systems and perform assessment of future systems this will
  include the review of 2 current Computer Aided Dispatch (CAD) systems for potential
  integration
- Review funding levels and compare to desired operations
- Facility Description Considerations & Design Criteria walk-through with KDOT
  - o Review of common room types for an AOC including; Control Room, Equipment Room, Multipurpose/Conference Room, Operators Break Room, Engineering Offices, Lobby, Photocopy and Printer/Storage Room, Men's and Women's Restrooms, UPS and Battery Room, Emergency Generator, and Electrical Room.
  - Architectural Interior Design Criteria including; Interior Finish, Doors, Roof Acess, Infinite Access Flooring System, Window Covering, Furniture, Acoustics, Day Lighting, Control Room Workstation Console, and Control Room Display Wall
  - o Structural Design Criteria (If applicable)
  - Mechanical Design Criteria including; HVAC, Plumbing and Drainage, and Fire Protection (If applicable)
  - Electrical Design Criteria including; General electrical, Data/Communication
     System, Master Clock System, Cable Entry, Cable Raceway, Equipment Cabinets,

#### Location: Illinois Route 64 – Randall Road to Burlington Road and Burlington Road – IL 64 to KDOT Office Section No.: 08-00389-00-TL Project No.: CMM-9003(204)

Job No.: D-91-262-09
Type of Funding: STA

Public Address, Security/Access, Alarms and Controls, Power, Emergency Power Off, Emergency Generator, UPS, Grounding, and Lighting

- Develop up to 3 potential layouts for up to 2 locations for the AOC
- Review all existing equipment and develop draft ITS system network schematics and IP scheme
- Prepare an concept of operations document and staffing plan for the AOC

#### DELIVERABLES TO KANE COUNTY:

- Up to 3 different layouts for the AOC at up to 2 different locations in the KDOT building
- Cost comparisons of up to 3 different alternatives for future/desired operations of the AOC
- Renderings for the top layout as determined by the County (If requested)
- Network schematics and IP schema for the fiber network
- Concept of operations and staffing plan

#### ASSUMPTIONS:

- Delcan will not be responsible for permitting of the construction work
- The AOC will be a remodel of an existing location at the DOT offices

#### TASK 7: PREPARE PRELIMINARY PLAN SHEETS

#### PURPOSE:

The purpose of this task is to put together the beginning of the PS&E package.

#### INPUTS:

All deliverables from the previous tasks

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- 50% plans sheets showing fiber backbone routing using existing and/or propose conduit
- 50% communications design
- 50% layout design of the AOC
- All required detail sheets
- Schedule 50% design review meeting

#### DELIVERABLES TO KANE COUNTY:

- 50% PS&E design package
- Summary of meeting minutes from 50% design review

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### ASSUMPTIONS:

Currently it is assumed that a single PS&E package will be prepared for the fiber interconnect
and AOC. Delcan can prepare a separate package for the interconnect and AOC if
determined to be in the interest of the County

#### TASK 8: PREPARE PRE-FINAL PLAN SHEETS

#### PURPOSE:

The purpose of this task is to prepare a 90% PS&E package. *INPUTS:* 

- All previous deliverables
- 50% PS&E package
- 50% design review meeting minutes

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Update 50% PS&E package to include design review notes
- Include special provisions for construction
- Include all required IDOT and Kane County standard detail sheets
- Provide Engineers Estimate of Cost and Construction time schedule
- Provide 90% PS&E package to both Kane County and IDOT
- Schedule 90% design review meeting with Kane County and IDOT
- 90% design review meeting minutes

#### DELIVERABLES TO KANE COUNTY:

- 90% PS&E package
- 90% Design review meeting minutes and notes

#### **ASSUMPTIONS**

- 4 (four) week turn-around time for KCDOT / IDOT review
- Special provisions used in previous interconnect projects will be the basis for this project. Minimal work will be required to produce the special provisions.

#### TASK 9: PREPARE FINAL PS&E PACKAGE

#### PURPOSE:

The purpose of this task is to provide the County with a complete PS&E package that is ready to be put out for bid to construct the updated Ethernet fiber communications network and the AOC.

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### INPUTS:

- 90% review comments from both Kane County and IDOT
- 90% review meeting minutes and notes

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Update 90% design to reflect all comments from the review meeting
- Prepare the complete 100% PS&E package for the County
- Deliver desired number of bid package documents to IDOT
- Assist the county with contract questions during the bid process

#### DELIVERABLES TO KANE COUNTY:

- Complete PS&E package ready for bidding by contractors
- Timely response to contractor inquiries in bid process

#### ASSUMPTIONS:

• 4 (four) week turn-around time for KDOT / IDOT review

# TASK 10: SYSTEM INTEGRATION STUDY AND FUNCTIONAL REQUIREMENTS

#### PURPOSE:

The purpose of this task is to perform a system integration study and develop a listing of functional requirements. This package will guide the future system integration components and provide an implementation phasing plan for the AOC. There are several sub-tasks that will be carried out for this task. The sub-tasks will be useful in making important decisions about location, function, staffing, maintenance, and future considerations in conjunction with available funding.

#### INPUTS:

- Kane County ITS Strategic Plan
- Inventory of Devices
- Operational Characteristics
- Inter-agency operational relationships
- Task 6 components including:
  - Review of the existing Kane County ITS Strategic Plan and the Concept of Operations for the Arterial Operations Center (AOC)
  - o KDOT Staff Interviews and Current Operations
  - o Review all current systems and perform assessment of future systems
  - o Review funding levels and compare to desired operations

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Assessment of technology readiness and system requirements for ITS elements
- Assessment of technology readiness for TACTICS/ACTRA signal system
- Development of functional requirements
- Development of Implementation phasing plan

#### DELIVERABLES TO KANE COUNTY:

- Current and proposed systems review and assessment
- Functional Requirements document
- Implementation phasing plan for system integration

#### ASSUMPTIONS:

• Technology review of TACTICTS/ACTRA does not include development of signal system requirements. The County is committed to TACTICS and will not be looking into new signal systems for the near future.

# TASK 11: OPTIONAL TASK – AOC ADDITION TO THE DOT BUILDING AND OTHER ITS INTEGRATION SUPPORT SERVICES - PENDING FUNDING AVAILABILITY

#### PURPOSE:

The purpose of this optional task is to provide PS&E services for the addition of an AOC center to the DOT building instead of a room remodel. Also, other ITS integration support services may be provided under this task as negotiated and agreed by KDOT and Delcan. Items under this optional task will only be activated upon agreed scope and estimate and written approval by KDOT.

#### INPUTS:

- Implementation phasing plan
- Concept of Operations document
- Functional requirements document
- Staffing Plan

#### POTENTIAL ACTIVITIES TO BE COMPLETED BY DELCAN:

- PS&E design for a room addition for an AOC at the DOT building
- Architectural services to complete AOC design
- Additional ITS integration services as requested

Section No.: 08-00389-00-TL Project No.: CMM-9003(204) Job No.: D-91-262-09 Type of Funding: STA

#### DELIVERABLES TO KANE COUNTY:

- PS&E plans and architectural services to provide for construction of an AOC addition to the County DOT building
- ITS integration services as requested

#### ASSUMPTIONS:

• No work will be completed under this task without written authorization from Kane County.

#### TASK 12: OPTIONAL TASK - CONSTRUCTION SUPPORT

#### PURPOSE:

The purpose of the task is to assist the County and Construction contractor with any questions that may occur during the project. Delcan will also be available to provide communication equipment set-up, configuration and testing.

#### INPUTS:

• Construction of communication interconnect

#### ACTIVITIES TO BE COMPLETED BY DELCAN:

- Timely response to County and Contractor questions
- Field set-up, configuration and testing of communications equipment
- Review of construction at rough framing for electrical and communications design
- Set up and programming of network equipment for Traffic Management system if requested and budget allows

#### DELIVERABLES TO KANE COUNTY:

- Completed and tested Fiber optic Ethernet interconnect.
- Network and Communications set up and trouble-shooting if requested and budget allows

#### ASSUMPTIONS:

None

ID	0	Task Name	:	Duration	Start	Finish	Quarte 1st Quar o e Jan e M	t 2nd Quart arApr a Jun	3rd Quar Jul u e	t 4th Quarte	1st Quart Jan e Ma	2nd Qua Apr a Ju	rt 3rd Quart
1		Project Managemer Meetings	nt, Coordination, and	415 days	Mon 1/4/10	Fri 8/5/11							
2	n	Pre-Meeting/Ob	tain Plans	2 days	Mon 1/4/10	Tue 1/5/10		-			and colors space for manner	Commence professional and	
3	11	Field Review an	d Inventory	5 days	Mon 1/11/10	Fri 1/15/10							
4	ni	Design Cable R	oute	10 days	Mon 1/18/10	Fri 1/29/10					the contract to the same		
5		Design Field Co	ommunication	40 days	Mon 2/1/10	Fri 3/26/10				holistania de la constitución de		1949 to 184 to 188 to 1	
6		Arterial Operati Concept of Ope	ons Center Design and erations	160 days	Mon 2/8/10	Fri 9/17/10					·		
7	in a	Preliminary Pla	n Submittal	120 days	Mon 9/6/10	Fri 2/18/11				558 (520)		The state of the s	
8		Plan Review KD	OOT and IDOT	10 days	Mon 2/21/11	Fri 3/4/11						familia companya a manana	
9		Pre-final Plan S	ubmittal	40 days	Mon 3/7/11	Fri 4/29/11	÷				·		
10		Plan Review KD	OOT and IDOT	10 days	Mon 5/2/11	Fri 5/13/11			-	To constitute to the second			
11		Final PS&E		35 days	Mon 5/16/11	Fri 7/1/11				TOTAL MARKET PARKET OF THE PARKET PAR			1100. 
12		Integration Stud Requirements	dy and functional	200 days	Mon 5/17/10	Fri 2/18/11							
13	TI	Optional Task - Integration Serv	AOC Addition and ITS vices	180 days	Mon 2/22/10	Fri 10/29/10							
14		Optional Task -	Construction Support	20 days	Mon 7/11/11	Fri 8/5/11				The state of the s	The state of the s		
AOC S	Sche	. 64 Interconnect & edule 3, 2009			Milestone Summary Project Summar	y was easy and an	Exter	rnal Tasks rnal Milestone Iline			. !		J
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