


Local Agency Lake County Division of Transportation	L O C A L  A G E N C Y	 <b>Illinois Department of Transportation</b>  <b>Preliminary Engineering Services Agreement For Federal Participation</b>	Consultant Alfred Benesch & Company
County Lake			Address 205 N. Michigan Avenue, Ste. 2400
Section 10-00252-02-BT			City Chicago
Project No. N/A			State IL
Job No. N/A			Zip Code 60435
Contact Name/Phone/E-mail Address Mike Burke/847-377-7000 mburke@co.lake.il.us			Contact Name/Phone/E-mail Address Kevin Fitzpatrick/312-565-0450 kfitzpatrick@benesch.com

THIS AGREEMENT is made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_ between the above Local Agency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the PROJECT. Federal-aid funds allotted to the LA by the state of Illinois under the general supervision of the Illinois Department of Transportation (STATE) will be used entirely or in part to finance engineering services as described under AGREEMENT PROVISIONS.

#### Project Description

Name Phase I & II North Shore Bike Path      Route N/A      Length 200'      Structure No. \_\_\_\_\_

Termini N/A

Description Realignment of the North Shore Bike Path at the crossing of the Union Pacific Railroad

Draft

#### Agreement Provisions

**I. THE ENGINEER AGREES,**

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.
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 365 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 man-hours 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:
- 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
  - 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.
  - are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
  - 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,
  - 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
  - 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. Scope 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.
  - 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.

# WORK PLAN

# Draft

## PHASE I & II ENGINEERING FOR NORTH SHORE BIKE PATH AT THE UNION PACIFIC RAILROAD CROSSING

LCDOT Section 10-00225-02-BT

### INTRODUCTION

This document serves to supplement the Project Scoping Report prepared by Mike Burke dated 1/28/2011. The Project Scoping Report identifies the existing conditions, proposed improvements, permit requirements and the design guidelines for the project. This document details the proposed scope of services corresponding to the Cost Estimate of Consultant Services (CECS) needed to complete the proposed scope of work.

### PHASE I & II SCOPE OF SERVICES

The following Scope of Services discusses the items to be completed for each of the identified tasks, assumptions for development of the proposal, the deliverables to the Lake County Division of Transportation and other appropriate agencies.

#### A. Data Collection

Benesch will gather, compile, organize and review the following information:

##### Available information to be gathered and assembled

- As-built path roadway plans, as available
- Utility atlases
- FEMA floodplain and floodway mapping
- ROW information
- Public and private underground and overhead utility locations
- UP track charts and records
- Railroad as built, if available
- Parcel information

##### *Assumptions for Estimate:*

1. Documents on the available list are readily obtained and effort beyond normal procedures will not be required to gather and or assemble information.

#### B. Reports (Environmental and Project Development Report)

The Environmental Survey Request Form (ESRF) will be submitted to obtain signoffs on biological, wetlands and cultural issues.

It is anticipated that the project will be processed as a Categorical Exclusion I meeting the definition of CE in 23 CFR 771.117(a) and will not involve unusual circumstances (23 CFR 771.117(b)).

This scope of work involves the preparation of an abbreviated project development report (Fact Sheet) with exhibits and minimal amount of coordination with IDOT to achieve certification of the project's CE I classification.

***Deliverables:***

- Environmental Survey Request Form
- Abbreviated Project Development Report(Fact Sheet)
- Documentation of CE I classification

**C. Path Plans**

This scope of work includes the preparation of a path realignment plan which will meet the design guidelines outlined in the scope of work. These plans would then be used to coordinate with the railroad and the Village of Lake Bluff to make further modifications to provide an adequate distance between the path and roadway including the installation of pedestrian gates.

It is anticipated that the construction of the path modifications would be completed by railroad forces and be reimbursed by the County by means of County/Other Organization Agreement. This scope and estimate include engineering drawings for use by the railroad. A full bid set is not included in this scope.

***Deliverables:***

- 1 Cover Sheet
- 1 General Notes, Summary of Quantities, Schedule of Quantities
- 1 Typical Section Sheet
- 1 Plan & Profile Sheet
- Railroad Agreement

***Assumptions for Estimate:***

1. Cross Sections will not be required
2. Lake County Watershed Permit will not be required

**D. Right-of-Way**

This scope of work includes the preparation of plats and legal description of the new path alignment to accompany agreements for the construction and future maintenance of the path.

***Deliverables:***

- Plat and Legal Description

***Assumptions for Estimate:***

1. Existing plats, legal descriptions and agreements will be provided by the County and will serve as the basis for the development of modified documents.
2. No plat modifications will be recorded at the recorder's office.

#### **E. Design Survey**

The design survey will be limited to approximately 200 ft east and west of the North Shore Bike Path crossing of the Union Pacific Railroad. The topographic features between the existing south edge of IL Rte. 176 and right-of-way including the path and utilities will be surveyed.

##### *Assumptions for Estimate:*

1. Field Books from previous project will be provided by the County for horizontal and vertical control near the project area.
2. Electronic CADD files will be provided by the County

#### **F. Coordination**

It is anticipated that coordination will be required with the following:

- Lake County Division of Transportation
- Union Pacific Railroad
- Village of Lake Bluff
- Illinois Commerce Commission

##### *Assumptions for Estimate:*

1. 12 month schedule
2. LCDOT (2 meetings at 6 hrs/mtg)
3. Union Pacific Railroad (2 meetings at 6 hrs/mtg + 2 hrs for correspondence + 4 hrs for exhibits)
4. Village of Lake Bluff (2 meetings at 6 hrs/mtg)
5. ICC (2 meetings at 8 hrs/mtg + 4 hrs for correspondence + 4 hrs for exhibits)

**Deliverables:** Coordination Letters, Records of Conversation and Meeting Minutes.

#### **G. Project Administration/Management**

Administration consists of project management responsibilities such as: development of a QA/QC Plan, project scheduling activities, invoicing, staffing resource management and internal project team meetings to provide a quality product on schedule and within budget. Benesch will prepare progress reports and invoices on a four-week cycle. These progress reports and invoices will be in a format acceptable to LCDOT.

Benesch will prepare a project schedule, including a breakdown of the major tasks depicting the project's key milestones and deliverables for Phase I&II. The design schedule will be updated monthly and at a minimum, will include:

- Key milestones in the Phase I&II process including coordination with public officials, submittal of project reports/plans, preparation of right-of-way documents and agency review meetings.
- Critical path items

***Assumptions for Estimate:***

1. 12 month schedule

***Deliverables:*** Project Work Plan, Progress Reports, Invoices and Project Schedule

## **H. Quality Assurance/Quality Control**

This task will include the internal processes necessary to ensure consistency and accuracy of documents and deliverables. Deliverables will be checked by independent peer reviews prior to delivery to the County. Documentation of QA/QC procedures will be maintained.

***Deliverables:*** Internal QA/QC monitoring forms and documentation binders will be maintained and furnished for review if requested by the County.

# COST ESTIMATE OF CONSULTANT SERVICES

Sheet: 1 of 1

Project: Phase I & II North Shore Bike Path at UP RR Crossing

Section: 10-00252-02-BT Firm: ALFRED BENESCH & COMPANY

Date: February 17, 2011

County: Lake

Overhead Rate: 151.68

Complexity Factor: 0

Job No.:

Estimate Prepared By: State Firm X

Item	Number of Staff hours (A)	Adjusted Hourly Rate (A1)	Payroll (B)	Estimated Cost in Dollars			Subtotal (E)	Profit (F)	Ineligible Direct Costs (D1)	Services By Others* (G)	Total (H)	Percent Of Grand Total (I)
				Overhead Fringe Benefits (C)	Eligible Direct Costs (D)	Direct Costs (D)						
<b>PROJECT TASKS</b>												
A. Data Collection*	24	29.61	710.64	1,077.90	0.00	0.00	1,788.54	259.34	0.00		2,047.88	5.6
B. Reports (CE I)	40	34.13	1,365.20	2,070.74	0.00	0.00	3,435.94	498.21	85.00		4,019.15	11.0
C. Path Plans	88	33.45	2,943.60	4,464.85	0.00	0.00	7,408.45	1,074.23	36.00		8,518.68	23.4
D. Right-Of-Way	32	41.72	1,335.04	2,024.99	0.00	0.00	3,360.03	487.20	90.00		3,937.23	10.8
E. Survey	32	45.98	1,471.36	2,231.76	0.00	0.00	3,703.12	536.95	180.00		4,420.07	12.1
F. Coordination	66	37.21	2,455.86	3,725.05	0.00	0.00	6,180.91	896.23	724.50		7,801.64	21.4
G. Administration	32	41.30	1,321.60	2,004.60	0.00	0.00	3,326.20	482.30	0.00		3,808.50	10.5
H. Quality Assurance/ Quality Control	16	40.21	643.36	975.85	0.00	0.00	1,619.21	234.79	0.00		1,853.99	5.1
<b>Sub-totals</b>	<b>330</b>		<b>12,246.66</b>	<b>18,575.73</b>	<b>0.00</b>	<b>0.00</b>	<b>30,822.39</b>	<b>4,469.25</b>	<b>1,115.50</b>	<b>0.00</b>	<b>36,407.14</b>	<b>100.0</b>

# AVERAGE HOURLY PROJECT RATES

Project: Phase I & II North Shore Bike Path at UP RR Crossing

Section: 10-00252-02-BT

Firm: ALFRED BENESCH & COMPANY

County: Lake

Date: February 17, 2011

Job No.: \_\_\_\_\_

Sheet: 1 of 2

PAYROLL CLASSIFICATION	AVERAGE HOURLY RATES* (2011)	A. Data Collection			B. Reports			C. Path Plans			D. Right of Way					
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE			
SR. PROJECT MANAGER	\$64.75	0	0.00	\$0.00	2	5.00	\$3.24	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	0.00
PROJECT MANAGER II	\$54.28	2	10.00	\$5.43	4	10.00	\$5.43	9	10.00	5.43	3	10.00	5.43	3	10.00	5.43
PROJECT MANAGER I	\$47.19	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	0.00
SR. PROJECT ENGINEER	\$43.90	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	0.00
PROJECT ENGINEER II	\$38.62	0	0.00	\$0.00	12	30.00	\$11.59	18	20.00	7.72	0	0.00	\$0.00	0	0.00	0.00
DESIGNER II	\$30.67	10	40.00	\$12.27	10	25.00	\$7.67	18	20.00	6.13	0	0.00	\$0.00	0	0.00	0.00
SENIOR TECHNOLOGIST	\$35.85	0	0.00	\$0.00		0.00	\$0.00	18	20.00	7.17	6	20.00	7.17	6	20.00	7.17
SR. SURVEYOR	\$52.00	0	0.00	\$0.00		0.00	\$0.00		0.00	\$0.00	10	30.00	0.00	10	30.00	15.60
SR. PARTY CHIEF	\$33.80	0	0.00	\$0.00		0.00	\$0.00		0.00	\$0.00	13	40.00	0.00	13	40.00	13.52
TECHNICAL SPECIALIST I	\$24.60	10	40.00	\$9.84		0.00	\$0.00	18	20.00	4.92	0	0.00	\$0.00	0	0.00	0.00
PROJECT ASSISTANT I	\$20.70	2	10.00	\$2.07	12	30.00	\$6.21	9	10.00	2.07	0	0.00	\$0.00	0	0.00	0.00
Sub-Totals		24	100.00	29.61	40	100.00	34.13	88	100.00	33.45	32	100.00	41.72	32	100.00	41.72
WGTD RATE WITH ESCALATION*	0.00%			\$29.61			\$34.13			\$33.45			\$41.72			\$41.72



# AVERAGE HOURLY PROJECT RATES

Project: Phase I & II North Shore Bike Path at UP RR Crossing

Section: 10-00252-02-BT

Firm: ALFRED BENESCH & COMPANY

County: Lake

Date: February 17, 2011

Job No.: \_\_\_\_\_

Sheet: 2 of 2

PAYROLL CLASSIFICATION	AVERAGE HOURLY RATES* (2011)	E. Survey			F. Coordination			G. Administration			H. QA/QC		
		HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE	HOURS	% PART	WGTD RATE
SR. PROJECT MANAGER	\$64.75	0	0.00	\$0.00	0	0.00	0	0.00	\$0.00	1	5.00	3.24	
PROJECT MANAGER II	\$54.28	3	10.00	\$5.43	7	10.00	\$5.43	13	40.00	21.71	2	10.00	5.43
PROJECT MANAGER I	\$47.19	0	0.00	\$0.00	7	10.00	\$4.72	0	0.00	0.00	2	10.00	4.72
SR. PROJECT ENGINEER	\$43.90	0	0.00	\$0.00	10	15.00	\$6.59	0	0.00	0.00	4	25.00	10.98
PROJECT ENGINEER II	\$38.62	0	0.00	\$0.00	0	0.00	\$0.00	13	40.00	15.45	0	0.00	0.00
DESIGNER II	\$30.67	0	0.00	\$0.00	26	40.00	\$12.27	0	0.00	0.00	6	40.00	12.27
SENIOR TECHNOLOGIST	\$35.85	0	0.00	\$0.00	13	20.00	\$7.17	0	0.00	0.00	2	10.00	3.59
SR. SURVEYOR	\$52.00	16	50.00	\$26.00	0	0.00	\$0.00	0	0.00	0.00	0	0.00	0.00
SR. PARTY CHIEF	\$33.80	13	40.00	\$13.52	0	0.00	\$0.00	0	0.00	0.00	0	0.00	0.00
TECHNICAL SPECIALIST I	\$24.60	0	0.00	\$0.00	0	0.00	\$0.00	0	0.00	0.00	0	0.00	0.00
PROJECT ASSISTANT I	\$20.70	2	5.00	\$1.04	3	5.00	\$1.04	6	20.00	4.14	0	0.00	0.00
Sub-Totals		32	105.00	45.98	66	100.00	37.21	32	100.00	41.30	16	100.00	40.21
WGTD RATE WITH ESCALATION*	0.00%			\$45.98			\$37.21			\$41.30			\$40.21

Lake County  
Division of Transportation  
North Shore Bike Path at UP RR Crossing  
Estimate of Staff Hours-Phase I & Phase II

Project Task A: Data Collection

ITEMS	Item Totals
Existing Roadway & Path Plans	4
Utility Atlases	4
FEMA Mapping	2
Right-of-Way Information	4
Public & Private Utility Locations	4
UP Track Charts & Records	2
Parcel Information	4
TASK TOTAL	24

Lake County  
 Division of Transportation  
 North Shore Bike Path at UP RR Crossing  
 Estimate of Staff Hours-Phase I & Phase II

Project Task B: Reports (CE I)

ITEMS		Item Total
Complete and Obtain Categorical Exclusion I Sign-Off		<b>40</b>
Environmental Survey Request Form	8	
Abbreviated Project Report (Fact Sheet and Exhibits)	24	
IDOT Coordination/Meetings	8	
	<b>TASK TOTAL</b>	<b>40</b>

Lake County  
 Division of Transportation  
 North Shore Bike Path at UP RR Crossing  
 Estimate of Staff Hours-Phase I & Phase II

Project Task C: Path Plans

ITEMS AND TASKS	No. of Sheets	Hrs per Sheet	Task or Sheet Hours Extended	Item Total
<b>GENERAL PLAN SHEETS</b>				<b>16</b>
Cover Sheet	1	8	8	
General Notes, SOQ, Schedules	1	8	8	
<b>TYPICAL SECTIONS (Ex. and Proposed)</b>				<b>8</b>
North Shore Path	1	8	8	
<b>PLAN/PROFILE</b>				<b>32</b>
Alignment Ties and Benchmarks			8	
Plan/profile Sheets-Rollins Road	1	16	16	
Quantity Calculation			8	
<b>Special Provisions</b>				<b>24</b>
<b>Railroad Agreement</b>				<b>8</b>
<b>Task Total</b>				<b>88</b>

Lake County  
Division of Transportation  
North Shore Bike Path at UP RR Crossing  
Estimate of Staff Hours-Phase I & Phase II

Project Task D: Right-of-Way Documents

Items	Item Total
Property Survey	8
Field Survey for Individual Parcel Plats (1 Parcel)	
Office	24
Write Legal Descriptions	
Draft Plats	
Task Total	32

Lake County  
Division of Transportation  
North Shore Bike Path at UP RR Crossing  
Estimate of Staff Hours-Phase I & Phase II

Project Task E: Survey

Items	Hours
Control Survey	
Vertical	8
Horizontal	8
Topographic Survey	8
Utilities	8
* 2 man crew 2 days	
<b>Task Total</b>	<b>32</b>

Lake County  
Division of Transportation  
North Shore Bike Path at UP RR Crossing  
Estimate of Staff Hours-Phase I & Phase II

Project Task F: Coordination

ITEMS	Item Totals
Lake County DOT Coordination Meetings (2)	12
UPRR (2 meetings + Coorespondence + Exhibits)	18
Village of Lake Bluff (2)	12
ICC (2 meetings + Correspondence + Exhibits)	24
TASK TOTAL	66

Lake County  
Division of Transportation  
North Shore Bike Path at UP RR Crossing  
Estimate of Staff Hours-Phase I & Phase II

Project Task G: Project Administration/Management

ITEMS	Item Totals
Prepare Project Work Plan/ Schedules	4
Develop QMP Plan/Implement	4
Project Controls - Invoicing, budget tracking, document management etc. (12 months @ 1 hrs/month)	12
Project Management - Project coordination and management issues. (12 months @ 1 hrs/month)	12
TASK TOTAL	32



Lake County  
 Division of Transportation  
 North Shore Bike Path at UP RR Crossing  
 Estimate of Staff Hours-Phase I & Phase II

Project Task H: Quality Assurance/ Quality Control

ITEMS	Item Totals
This effort is assumed to be 5% of the total effort for Task A through Task Q	16
TASK TOTAL	16

	Unit	Unit Cost	A DATA COLLECTION		B REPORTS		C PATH PLANS	
			Quantity	Cost	Quantity	Cost	Quantity	Cost
I. CADD & REPRODUCTION								
A. COMPUTER AIDED DESIGN AND DRAFTING								
1. CADD PLOTTING MEDIUM; BOND* (6 sq. ft.)	PLOT	\$6.00	0	\$0	0	\$0	2	\$12
2. COLOR COPIES	SQ FT	\$0.10	0	\$0	0	\$0	240	\$24
	SHT	\$0.80	0	\$0	50	\$40	0	\$0
B. REPORTS AND REPRODUCTIONS								
1. PRINTS FOR SUBMITTAL								
2. COLOR COPIES								
C. MESSENGER MISCELLANEOUS SUPPLIES								
1. OVERNIGHT DELIVERY	PACKAGES	\$25.00	0	\$0	0	\$0	0	\$0
SUBTOTAL				\$0		\$40		\$36
II. TRAVEL & LODGING								
A. TRAVEL								
1. VEHICLE	DAY	\$45.00	0	\$0	1	\$45	0	\$0
3. PERSONAL VEHICLE MILEAGE	MILE	\$0.51	0	\$0	0	\$0	0	\$0
SUBTOTAL				\$0		\$45		\$0
III. MISCELLANEOUS								
H. PARCEL INFORMATION	PARCELS	\$200.00	0	\$0	0	\$0	0	\$0
I. RAILROAD INSURANCE	LUMP SUM	\$10,000.00	0	\$0	0	\$0	0	\$0
J. RAILROAD FLAGGER	DAYS	\$480.00	0	\$0	0	\$0	0	\$0
SUBTOTAL				\$0		\$0		\$0
<b>TOTAL</b>				\$0		\$85		\$36

	Unit	Unit Cost	D ROW		E DESIGN SURVEY		F COORDINATION		G PROJECT ADMIN		H QA/QC		TOTAL COST
			Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	Quantity	Cost	
I. CADD & REPRODUCTION													
A. COMPUTER AIDED DESIGN AND DRAFTING													
1. CADD PLOTTING MEDIUM; BOND* (6 sq. ft.x \$1/sq.ft.)=\$6.00/plot	PLOT	\$6.00	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$12
B. REPORTS AND REPRODUCTIONS													
1. PRINTS FOR SUBMITTAL	SQ.FT	\$0.10	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$24
2. COLOR COPIES	SHT	\$0.80	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$40
C. MESSENGER MISCELLANEOUS SUPPLIES													
1. OVERNIGHT DELIVERY	PACKAGES	\$25.00	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
SUBTOTAL				\$0		\$0		\$0		\$0		\$0	\$76
III. TRAVEL & LODGING													
A. TRAVEL													
1. VEHICLE	DAY	\$45.00	2	\$90	4	\$180	6	\$270	0	\$0	0	\$0	\$585
3. PERSONAL VEHICLE MILEAGE	MILE	\$0.51	0	\$0	0	\$0	900	\$455	0	\$0	0	\$0	\$455
SUBTOTAL				\$90		\$180		\$725		\$0		\$0	\$1,040
III. MISCELLANEOUS													
H. PARCEL INFORMATION	PARCELS	\$200.00	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
I. RAILROAD INSURANCE	LUMP SUM	\$10,000.00	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
J. RAILROAD FLAGGER	DAYS	\$480.00	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	\$0
SUBTOTAL				\$0		\$0		\$0		\$0		\$0	\$0
<b>TOTAL</b>				\$90		\$780		\$725		\$0		\$0	\$1,116