



**Local Public Agency
Engineering Services Agreement**



Using Federal Funds? Yes No Agreement For: **MFT PE** Agreement Type: _____

LOCAL PUBLIC AGENCY			
Local Public Agency	County	Section Number	Job Number
Lake County Division of Transportation	Lake	21-00999-83-BR	
Project Number	Contact Name	Phone Number	Email
	Mike Zemaitis	(847) 377-7400	mzemaitis@lakecounty.gov

SECTION PROVISIONS			
Local Street/Road Name	Key Route	Length	Structure Number
Various	Various		Various-see scope document
Location Termini			Add Location
Various-see scoping document attached- Exhibit A			Remove Location
Project Description			
System-wide bridge repair and maintenance projects throughout Lake County			

Engineering Funding MFT/TBP State Other **County Bridge Tax**

Anticipated Construction Funding Federal MFT/TBP State Other **County Bridge Tax**

AGREEMENT FOR

Phase I - Preliminary Engineering Phase II - Design Engineering

CONSULTANT			
Consultant (Firm) Name	Contact Name	Phone Number	Email
Hampton, Lenzini & Renwick, Inc.	Steve Megginson	(217) 546-3400	swmegginson@hlreng.com
Address	City	State	Zip Code
380 Shepard Drive	Elgin	IL	60123

THIS AGREEMENT IS MADE between the above Local Public Agency (LPA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the improvement of the above SECTION. Project funding allotted to the LPA by the State of Illinois under the general supervision of the State Department of Transportation, hereinafter called the "DEPARTMENT," will be used entirely or in part to finance ENGINEERING services as described under AGREEMENT PROVISIONS.

Since the services contemplated under the AGREEMENT are professional in nature, it is understood that the ENGINEER, acting as an individual, partnership, firm or legal entity, qualifies for professional status and will be governed by professional ethics in its relationship to the LPA and the DEPARTMENT. The LPA acknowledges the professional and ethical status of the ENGINEER by entering into an AGREEMENT on the basis of its qualifications and experience and determining its compensation by mutually satisfactory negotiations.

WHEREVER IN THIS AGREEMENT or attached exhibits the following terms are used, they shall be interpreted to mean:

- Regional Engineer Deputy Director, Office of Highways Project Implementation, Regional Engineer, Department of Transportation
- Resident Construction Supervisor Authorized representative of the LPA in immediate charge of the engineering details of the construction PROJECT
- In Responsible Charge Contractor A full time LPA employee authorized to administer inherently governmental PROJECT activities Company or Companies to which the construction contract was awarded

AGREEMENT EXHIBITS

The following EXHIBITS are attached hereto and made a part of hereof this AGREEMENT:

- EXHIBIT A: Scope of Services
- EXHIBIT B: Project Schedule
- EXHIBIT C: Direct Costs Check Sheet
- EXHIBIT D: Qualification Based Selection (QBS) Checklist
- EXHIBIT E: Cost Estimate of Consultant Services Worksheet (BLR 05513 or BLR 05514)
- _____
- _____
- _____

I. THE ENGINEER AGREES,

1. To perform or be responsible for the performance of the Scope of Services presented in EXHIBIT A for the LPA in connection with the proposed improvements herein before described.
2. The Classifications of the employees used in the work shall be consistent with the employee classifications and estimated staff hours. If higher-salaried personnel of the firm, including the Principal Engineer, perform services that are 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.
3. That the ENGINEER shall be responsible for the accuracy of the work and shall promptly make necessary revisions or corrections required as a result of the ENGINEER'S error, omissions or negligent acts without additional compensation. Acceptance of work by the LPA or DEPARTMENT will not relieve the ENGINEER of the responsibility to make subsequent correction of any such errors or omissions or the responsibility for clarifying ambiguities.
4. That the ENGINEER will comply with applicable Federal laws and regulations, State of Illinois Statutes, and the local laws or ordinances of the LPA.
5. To pay its subconsultants for satisfactory performance no later than 30 days from receipt of each payment from the LPA.
6. To invoice the LPA, The ENGINEER shall submit all invoices to the LPA within three months of the completion of the work called for in the AGREEMENT or any subsequent Amendment or Supplement.
7. 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 US Department of Transportation (US DOT) assisted contract. 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 LPA deems appropriate.
8. 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 LPA. The consent to sublet, assign or otherwise transfer any portion of the services to be furnished by the ENGINEER shall be construed to relieve the ENGINEER of any responsibility for the fulfillment of this AGREEMENT.
9. For Preliminary Engineering Contracts:
 - (a) To attend meetings and visit the site of the proposed improvement when requested to do so by representatives of the LPA or the DEPARTMENT, as defined in Exhibit A (Scope of Services).
 - (b) That all plans and other documents furnished by the ENGINEER pursuant to the AGREEMENT will be endorsed by the ENGINEER and affixed the ENGINEER's professional seal when such seal is required by law. Such endorsements must be made by a person, duly licensed or registered in the appropriate category by the Department of Professional Regulation of the State of Illinois. 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 DEPARTMENT.
 - (c) That the ENGINEER is qualified technically and is thoroughly 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 in Exhibit A (Scope of Services).
10. That the engineering services shall include all equipment, instruments, supplies, transportation and personnel required to perform the duties of the ENGINEER in connection with this AGREEMENT (See Exhibit C).

II. THE LPA AGREES,

1. To certify by execution of this AGREEMENT that the selection of the ENGINEER was performed in accordance with the Professional Services Selection Act (50 ILCS 510) (Exhibit D).
2. To furnish the ENGINEER all presently available survey data, plans, specifications, and project information.
3. To pay the ENGINEER:
 - (a) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, 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 LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and DEPARTMENT a sum of money equal to the basic fee as determined in this AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER

shall be due and payable to the ENGINEER.

(c) For Non-Federal County Projects - (605 ILCS 5/5-409)

- (1) For progressive payments - Upon receipt of monthly invoices from the ENGINEER and the approval thereof by the LPA, 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 in all previous partial payments made to the ENGINEER.
- (2) Final payment - Upon approval of the work by the LPA but not later than 60 days after the work is completed and reports have been made and accepted by the LPA and STATE, a sum of money equal to the basic fee as determined in the AGREEMENT less the total of the amount of partial payments previously paid to the ENGINEER shall be due and payable to the ENGINEER.

4. To pay the ENGINEER as compensation for all services rendered in accordance with the AGREEMENT on the basis of the following compensation method as discussed in 5-5.10 of the BLR Manual.

Method of Compensation:

- Percent
- Lump Sum
- Specific Rate _____ (Maximum Fee \$150,000)
- Cost plus Fixed Fee: Fixed

Total Compensation = DL + DC + OH + FF

Where:

DL is the total Direct Labor,

DC is the total Direct Cost,

OH is the firm's overhead rate applied to their DL and

FF is the Fixed Fee.

Where FF = (0.33 + R) DL + %SubDL, where R is the advertised Complexity Factor and %SubDL is 10% profit allowed on the direct labor of the subconsultants.

The Fixed Fee cannot exceed 15% of the DL + OH.

5. The recipient shall not discriminate on the basis of race, color, national origin or sex in the award and performance of any US 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 US DOT-assisted contracts. The recipient's DBE program, as required by 49 CFR part 26 and as approved by US 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 (31 U.S.C 3801 et seq.).

III. IT IS MUTUALLY AGREED,

1. To maintain, for a minimum of 3 years after the completion of the contract, adequate books, records and supporting documents to verify the amount, 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 DEPARTMENT; the Federal Highways Administration (FHWA) or any authorized representative of the federal government, 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 DEPARTMENT for the recovery of any funds paid by the DEPARTMENT under the contract for which adequate books, records and supporting documentation are not available to support their purported disbursement.
2. That the ENGINEER shall be responsible for any all damages to property or persons out of an error, omission and/or negligent act in the prosecution of the ENGINEER's work and shall indemnify and save harmless the LPA, the DEPARTMENT, and their officers, agents and employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.

The LPA will notify the ENGINEER of any error or omission believed by the LPA to be caused by the negligence of the ENGINEER as soon as practicable after the discovery. The LPA reserves the right to take immediate action to remedy any error or omission if notification is not successful; if the ENGINEER fails to reply to a notification; or if the conditions created by the error or omission are in need of urgent correction to avoid accumulation of additional construction costs or damages to property and reasonable notice is not practicable.
3. This AGREEMENT may be terminated by the LPA upon giving notice in writing to the ENGINEER at the ENGINEER's last known post office address. Upon such termination, the ENGINEER shall cause to be delivered to the LPA all 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 materials becomes the property of the LPA. The LPA will be responsible for reimbursement of all eligible expenses incurred under the terms of this AGREEMENT up to the date of the written notice of termination.

4. In the event that the DEPARTMENT stops payment to the LPA, the LPA may suspend work on the project. If this agreement is suspended by the LPA for more than thirty (30) calendar days, consecutive or in aggregate, over the term of this AGREEMENT, the ENGINEER shall be compensated for all services performed and reimbursable expenses incurred prior to receipt of notice of suspension. In addition, upon the resumption of services the LPA shall compensate the ENGINEER, for expenses incurred as a result of the suspension and resumption of its services, and the ENGINEER's schedule and fees for the remainder of the project shall be equitably adjusted.
5. This AGREEMENT shall continue as an open contract and the obligations created herein shall remain in full force and effect until the completion of construction of any phase of professional services performed by others based upon the service provided herein. All obligations of the ENGINEER accepted under this AGREEMENT shall cease if construction or subsequent professional services are not commenced within 5 years after final payment by the LPA.
6. 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 have harmless the LPA, the DEPARTMENT, and their officers, employees from all suits, claims, actions or damages liabilities, costs or damages of any nature whatsoever resulting there from. These indemnities shall not be limited by the listing of any insurance policy.
7. The ENGINEER and LPA certify that their respective firm or agency:
 - (a) has not 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 the LPA or the ENGINEER) to solicit or secure this AGREEMENT,
 - (b) has not 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) has not paid, or agreed to pay any firm, organization or person (other than a bona fide employee working solely for the LPA or the ENGINEER) any fee, contribution, donation or consideration of any kind for, or in connection with, procuring or carrying out the AGREEMENT.
 - (d) that neither the ENGINEER nor the LPA is/are not presently debarred, suspended, proposed for debarment, declared ineligible or voluntarily excluded from covered transactions by any Federal department or agency,
 - (e) has 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 indicated 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 and
 - (g) has not within a three-year period preceding this AGREEMENT had one or more public transaction (Federal, State, local) terminated for cause or default.

Where the ENGINEER or LPA is unable to certify to any of the above statements in this clarification, an explanation shall be attached to this AGREEMENT.

8. In the event of delays due to unforeseeable causes beyond the control of and without fault or negligence of the ENGINEER no claim for damages shall be made by either party. Termination of the AGREEMENT or adjustment of the fee for the remaining services may be requested by either party if the overall delay from the unforeseen causes prevents completion of the work within six months after the specified completion date. Examples of unforeseen causes included but are not limited to: acts of God or a public enemy; acts of the LPA, DEPARTMENT, or other approving party not resulting from the ENGINEER's unacceptable services; fire; strikes; and floods.

If delays occur due to any cause preventing compliance with the PROJECT SCHEDULE, the ENGINEER shall apply in writing to the LPA for an extension of time. If approved, the PROJECT SCHEDULE shall be revised accordingly.

9. This certification is required by the Drug Free Workplace Act (30 ILCS 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 DEPARTMENT 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 on grant payments, termination of a contract or grant and debarment of the contracting or grant opportunities with the DEPARTMENT for at least one (1) year but not more than (5) years.

For the purpose of this certification, "grantee" or "Contractor" means a corporation, partnership or an 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 contract or grant of \$5,000 or more from the DEPARTMENT, as defined 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 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 (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 to maintain 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.
- (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.

Making a good faith effort to continue to maintain a drug free workplace through implementation of the Drug Free Workplace Act, the ENGINEER, LPA and the Department agree to meet the PROJECT SCHEDULE outlined in EXHIBIT B. Time is of the essence on this project and the ENGINEER's ability to meet the PROJECT SCHEDULE will be a factor in the LPA selecting the ENGINEER for future projects. The ENGINEER will submit progress reports with each invoice showing work that was completed during the last reporting period and work they expect to accomplish during the following period.

- 10. Due to the physical location of the project, certain work classifications may be subject to the Prevailing Wage Act (820 ILCS 130/0.01 et seq.).
- 11. For Preliminary Engineering Contracts:
 - (a) That tracing, 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 LPA and that basic survey notes, sketches, charts, CADD files, related electronic files, and other data prepared or obtained in accordance with this AGREEMENT shall be made available, upon request to the LPA or to the DEPARTMENT, without restriction or limitation as to their use. Any re-use of these documents without the ENGINEER involvement shall be at the LPA's sole risk and will not impose liability upon the ENGINEER.
 - (b) That all reports, plans, estimates and special provisions furnished by the ENGINEER shall conform to the current Standard Specifications for Road and Bridge Construction, Bureau of Local Roads and Streets Manual or any other applicable requirements of the DEPARTMENT, it being understood that all such furnished documents shall be approved by the LPA and the DEPARTMENT 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.

AGREEMENT SUMMARY

Prime Consultant	TIN/FEIN/SS Number	Agreement Amount
Hampton, Lenzini & Renwick, Inc		\$185,670.00

Subconsultants	TIN/FEIN/SS Number	Agreement Amount
- W,S,E&T		\$7,000.00
- CCDD Testing		\$2,200.00
- Railroad Right-of-Entry, Flaggers and Review Fees		\$26,000.00
Subconsultant Total		\$35,200.00
Prime Consultant Total		\$185,670.00
Total for all work		\$220,870.00

Add Subconsultant

AGREEMENT SIGNATURES

Executed by the LPA:

Attest: The Local Public Agency Type of Name of Local Public Agency

By Date

By Date

Name of Local Public Agency Local Public Agency Type Clerk

Title

(SEAL)

Executed by the ENGINEER:

Consultant (Firm) Name

Attest:

Hampton, Lenzini & Renwick, Inc.

By

Date



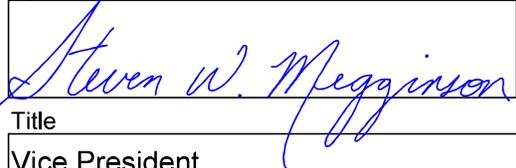
12/12/2021

Title

Senior Structural Engineer

By

Date



12/12/2021

Title

Vice President

APPROVED:

Regional Engineer, Department of Transportation

Date

Local Public Agency

County

Section Number

Lake County Division of Transportation

Lake

21-00999-83-BR

**EXHIBIT A
SCOPE OF SERVICES**

To perform or be responsible for the performance of the engineering services for the LPA, in connection with the PROJECT herein before described and enumerated below

See Scope of Work attached. - Exhibit A

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	21-00999-83-BR

**EXHIBIT B
PROJECT SCHEDULE**

Notice To Proceed:	February 1, 2022
Permit Submittals (pending wetland delineations)	March 1, 2022
Preliminary designs and Plans submittals-Package #1	March 15, 2022
Final Plans and Bid Documents-Package #1	May 1, 2022
Bid Letting – Package #1	June 7, 2022
Preliminary designs and Plans submittals - Package #2	April 15, 2022
Final Plans and Bid Documents- Package #2	June 1, 2022
Project Letting	July 12, 2022

Lake County Division of Transportation

Lake

21-00999-83-BR

**Exhibit C
Direct Costs Check Sheet**

List ALL direct costs required for this project. Those not listed on the form will not be eligible for reimbursement by the LPA on this project.

Item	Allowable	Quantity	Contract Rate	Total
<input type="checkbox"/> Lodging (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual cost (Up to state rate maximum)			
<input type="checkbox"/> Lodging Taxes and Fees (per GOVERNOR'S TRAVEL CONTROL BOARD)	Actual Cost			
<input type="checkbox"/> Air Fare	Coach rate, actual cost, requires minimum two weeks' notice, with prior IDOT approval			
<input type="checkbox"/> Vehicle Mileage (per GOVERNOR'S TRAVEL CONTROL BOARD)	Up to state rate maximum			
<input type="checkbox"/> Vehicle Owned or Leased	\$32.50/half day (4 hours or less) or \$65/full day			
<input type="checkbox"/> Vehicle Rental	Actual cost (Up to \$55/day)			
<input type="checkbox"/> Tolls	Actual cost			
<input type="checkbox"/> Parking	Actual cost			
<input type="checkbox"/> Overtime	Premium portion (Submit supporting documentation)			
<input type="checkbox"/> Shift Differential	Actual cost (Based on firm's policy)			
<input type="checkbox"/> Overnight Delivery/Postage/Courier Service	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Copies of Deliverables/Mylars (In-house)	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Copies of Deliverables/Mylars (Outside)	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Project Specific Insurance	Actual Cost			
<input type="checkbox"/> Monuments (Permanent)	Actual Cost			
<input type="checkbox"/> Photo Processing	Actual Cost			
<input type="checkbox"/> 2-Way Radio (Survey or Phase III Only)	Actual Cost			
<input type="checkbox"/> Telephone Usage (Traffic System Monitoring Only)	Actual Cost			
<input type="checkbox"/> CADD	Actual cost (Max \$15/hour)			
<input type="checkbox"/> Web Site	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Advertisements	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Public Meeting Facility Rental	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Public Meeting Exhibits/Renderings & Equipment	Actual cost (Submit supporting documentation)			
<input type="checkbox"/> Recording Fees	Actual Cost			
<input type="checkbox"/> Transcriptions (specific to project)	Actual Cost			
<input type="checkbox"/> Courthouse Fees	Actual Cost			
<input type="checkbox"/> Storm Sewer Cleaning and Televising	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Traffic Control and Protection	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Aerial Photography and Mapping	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Utility Exploratory Trenching	Actual cost (Requires 2-3 quotes with IDOT approval)			
<input type="checkbox"/> Testing of Soil Samples	Actual Cost			
<input type="checkbox"/> Lab Services	Actual Cost (Provide breakdown of each cost)			
<input type="checkbox"/> Equipment and/or Specialized Equipment Rental	Actual Cost (Requires 2-3 quotes with IDOT approval)			
<input checked="" type="checkbox"/> Railroad Co Right-of-Entry & Plan Review Fees	Actual cost	1	\$26,000.00	\$26,000.00
<input checked="" type="checkbox"/> CCDD Review Fees	Actual Cost	1	\$2,200.00	\$2,200.00
<input type="checkbox"/>				
<input type="checkbox"/>				
<input type="checkbox"/>				
Total Direct Costs				\$28,200.00

Local Public Agency	County	Section Number
Lake County Division of Transportation	Lake	21-00999-83-BR

**Exhibit D
Qualification Based Selection (QBS) Checklist**

The LPA must complete Exhibit D. If the value meets or will exceed the threshold in 50 ILCS 510, QBS requirements must be followed. Under the threshold, QBS requirements do not apply. The threshold is adjusted annually. If the value is under the threshold with federal funds being used, federal small purchase guidelines must be followed.

Form Not Applicable (engineering services less than the threshold)

Items 1-13 are required when using federal funds and QBS process is applicable. Items 14-16 are required when using State funds and the QBS process is applicable.

		No	Yes
1	Do the written QBS policies and procedures discuss the initial administration (procurement, management and administration) concerning engineering and design related consultant services?	<input type="checkbox"/>	<input type="checkbox"/>
2	Do the written QBS policies and procedures follow the requirements as outlined in Section 5-5 and specifically Section 5-5.06 (e) of the BLRS Manual?	<input type="checkbox"/>	<input type="checkbox"/>
3	Was the scope of services for this project clearly defined?	<input type="checkbox"/>	<input type="checkbox"/>
4	Was public notice given for this project?	<input type="checkbox"/>	<input type="checkbox"/>
5	Do the written QBS policies and procedures cover conflicts of interest?	<input type="checkbox"/>	<input type="checkbox"/>
6	Do the written QBS policies and procedures use covered methods of verification for suspension and debarment?	<input type="checkbox"/>	<input type="checkbox"/>
7	Do the written QBS policies and procedures discuss the methods of evaluation?	<input type="checkbox"/>	<input type="checkbox"/>
	Project Criteria		
	-		
	Add		
8	Do the written QBS policies and procedures discuss the method of selection?	<input type="checkbox"/>	<input type="checkbox"/>
Selection committee (titles) for this project			
Top three consultants ranked for this project in order			
1			
2			
3			
9	Was an estimated cost of engineering for this project developed in-house prior to contract negotiation?	<input type="checkbox"/>	<input type="checkbox"/>
10	Were negotiations for this project performed in accordance with federal requirements.	<input type="checkbox"/>	<input type="checkbox"/>
11	Were acceptable costs for this project verified?	<input type="checkbox"/>	<input type="checkbox"/>
12	Do the written QBS policies and procedures cover review and approving for payment, before forwarding the request for reimbursement to IDOT for further review and approval?	<input type="checkbox"/>	<input type="checkbox"/>
13	Do the written QBS policies and procedures cover ongoing and finalizing administration of the project (monitoring, evaluation, closing-out a contract, records retention, responsibility, remedies to violations or breaches to a contract, and resolution of disputes)?	<input type="checkbox"/>	<input type="checkbox"/>
14	QBS according to State requirements used?	<input type="checkbox"/>	<input type="checkbox"/>
15	Existing relationship used in lieu of QBS process?	<input type="checkbox"/>	<input type="checkbox"/>
16	LPA is a home rule community (Exempt from QBS).	<input type="checkbox"/>	<input type="checkbox"/>



Hampton, Lenzini and Renwick, Inc.

Civil Engineers • Structural Engineers • Land Surveyors • Environmental Specialists
www.hlrengineering.com

2022 Bridge Repair Projects Lake County Division of Transportation Section 21-00999-83-BR

SCOPE OF WORK

This project includes the design and plan development of repairs and maintenance to the following structures. Detailed scope items are outlined herein.

Plan Set #1 (May - 2022 letting)

1. **North Shore Bike Path:** SN 049-3066 Industrial Drive, SN049-3065 / Metra, and 049-3067 / CNRR, SN 049-3060 (Robert McClory Bike Path):
 - a. Provide recommendation for full or partial deck plank replacement
 - b. Research and recommend treated or composite materials
 - c. Rub-rails require spot replacement, weld inspection and repairs.
 - d. Coordination Metra, CN RR – Right-of-Entry Permit Fee \$8,000
 - e. Plan set: – 1: Cover, 2-SoQ-GN, 2-Traffic Control for Temporary Lane closure, 3-GPE's w/ proposed deck replacement, 4-Rail Detail Sheets, 5-Abutment Details, 6- Existing plans sheets, etal
 - f. Special Provisions, Estimate of Cost, Contract Documents

Plan Set #2 (July - 2022 letting)

Re: Concrete Repairs

2. 049-3055 Arlington Heights (SB) over Buffalo Creek- Repair spall at north abutment and delaminated concrete at south abutment.
 - a. 2 Sheets: Deck Plan, structure detail, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plan
3. 049-3071 Kelsey over Flint Creek – Patch concrete wearing surface.
 - a. 2 Sheets: Structure deck PLAN, details, location map, Bill Material, Spec/Notes
 - b. SESC Traffic Control Plan
4. 049-9910 Duffy over Tollway – Concrete repairs at north parapet (at railing baseplate and spall at parapet and deck joint).
 - a. 3 sheets: Deck plan, parapet details, joint details.
 - b. 2 Sheets: location map, Bill Material, Spec/Notes
 - c. Traffic Control Plan- single lane closures
5. 049-3002 Canadian Pacific RR over Washington – Repair concrete backwalls (spalls and map cracking) and pier (spall). Replace sheared anchor at the walkway.

- a. 3 Sheets: structure details, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plans- temporary staging plan
6. 049-3043 Buffalo Grove over Indian Creek – Repair concrete encasement at metal shell piles.
- a. 2 Sheets: Structure/pier encasement details, location map, Bill Material, Spec/Notes
 - b. Instream work- Wetlands, SESC / Dewatering plan, etc.
 - c. Traffic Control Plan- temporary lane closures
7. 049-5007 Kilbourne over Tributary of Des Plaines River (North) – Repair concrete encasement at metal shell piles.
- a. 2 Sheets: structure/pier encasement details, location map, Bill Material, Spec/Notes
 - b. Instream work- Wetlands, SESC / Dewatering plan, etc.
 - c. Traffic Control Plan- temporary lane closures
8. 049-3026 Lake over Channel (South) – Concrete repair at abutments (spalls and map cracking-NO Instream work)
- a. 2 Sheets: Abut concrete repair details, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plan - temporary lane closures
9. 049-3062 Russell over Des Plaines – Deck slab repairs at deck and approach pavement.
- a. 2 Sheets: Abut concrete repair details, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plan - temporary lane closures
10. 049-3061 Grass Lake over Channel – Remove loose concrete from spall/delaminated deck underside (No repair -- protect from falling on boat traffic.
- a. 1 sheets: Deck plan, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plan - single lane closure

Structural Steel Repairs

11. **049-3031** Lewis Ave. Pedestrian Bridge – Gusset plates at center of span with section loss to be repaired.
- a. 1 sheets: Deck plan, Repair Detail, location map, Bill Material, Spec/Notes
 - b. Traffic Control Plan – temporary single lane closure
 - c. Investigate ADA requirements for pedestrian access. Make recommendation for repair and/or replacement of the structure crossing.

Miscellaneous

12. **049-3028** Grass Lake over Fox River (Narrows) – Replace missing/damaged blocks at expansion joints.

13. **049-3068** Skokie Valley BP over IL 22 – Clean and spot paint (last painted in 2012) ; inspection report especially items #4, #5, and #6.
 - a. Pier Cap Crack Repair: sht #1 elevation detail sheet w/ notes
 - b. Concrete deck surface Crack Repair: #2: plan view w/ notes
 - c. Install neoprene seal expansion joints: #3-4: steel details, joint details, w/notes
 - d. Clean and paint superstructure and bearings: #5-6 shts; Plan and details w/ notes
 - e. Traffic Control Plan - single lane closure

14. **049-6048** UPRR over Sunset – Clean and paint beam ends. Repairs per attached Inspection Summary from HLR In Depth Inspection.
 - a. UPRR Coordination – Right-of-Entry Permit Fee \$8,000
 - b. Sheets – 1: Existing plans sheets 2: Abutment & Superstructure Elevation 3: Notes Bill Material-SOQ, Special Provisions,
 - c. Traffic Control Plan - Staging for Temporary Lane closures

15. **Cedar Lake Road** culvert at Squaw Creek; Repair of Wingwalls rotated forward.
 - a. Plan Sheets: 1:GPE, 2:Wing detail for tie back installation, 3: Notes, Bill Material-SOQ 4:Traffic Control for Temporary Lane closure
 - b. Special Provisions, Estimate of Cost

16. **DesPlaines River Trail underpasses** under St Mary's Road at the Old School Forest Preserve and just south of the EJ&E RR crossing Old School FPD. Repair wingwall separation and movement; The RAILROAD location has missing joint sealant.
 - a. StM Rd: Sheets – 1: Plan and Elevation: Wing stabilization details Elevation 3: Notes Bill Material-SOQ Existing plans sheets
 - b. EJE RR Coordination – Right-of-Entry Permit Fee \$5,000
 - c. EJE-South crossing: 1: Plan and Elevation, Repair details, Bill of Materials.
 - d. Traffic Control for Temporary bike lane closures and Old School Road lanes
 - e. SOQ, Special Provisions, Estimate of Cost

Project Schedule

Notice To Proceed:	February 1, 2022
Permit Submittals (pending wetland delineations)	March 1, 2022
Preliminary designs and Plans submittals-Package #1	March 15, 2022
Final Plans and Bid Documents-Package #1	May 1, 2022
Bid Letting – Package #1	June 7, 2022
Preliminary designs and Plans submittals - Package #2	April 15, 2022
Final Plans and Bid Documents- Package #2	June 1, 2022
Project Letting	July 12, 2022

DETAILED SCOPE OF SERVICES

1. Structure Inspections and Topographic Survey

HLR will provide a detailed inspection of the current conditions of each structure. This will provide in-place dimensions needed for contract plans and designs. If applicable, abbreviated topographic survey for areas identified for detailed design will be completed. A photographic log will be prepared of the project.

HLR will follow topographic survey standards as outlined in the Lake County Division of Transportation Design Survey Standards. HLR will use Illinois State Plane East Coordinate system 1983 datum for the horizontal control on this project and vertical datum will be NAVD 1988 datum. A minimum of two control points will be established at each structure location. The final deliverable will be a Microstation dgn. HLR will follow LCDOT CAD Standards. This survey scope does not include determining road right-of-way, property boundaries and easements.

2. Permitting

2.1 Task 1: Wetland Delineation Report

HLR proposes to complete delineations at SN 049-5007 - Kilbourne over Tributary of DesPlaines River (North) and at SN 049-3026 - Lake over Channel (South) for instream repairs to the concrete encasements of metal shell piles.

HLR will conduct a map review of the two repair locations. The following maps and documents will be reviewed prior to conducting the field investigation:

- U.S. Geological Survey Topographic Maps
- National Wetlands Inventory Maps
- Lake County Advanced Identification (ADID) Maps
- USDA Soil Survey
- Hydric Soils of the United States
- Regulatory Flood Map

HLR will conduct a field visit to verify site conditions and conduct a wetland delineation within the project limits.

The field investigation will be conducted by our environmental personnel who are experienced in Federal methods for conducting wetland delineations. Our staff will classify and define hydric soils, hydrophytic vegetation, and evidence of hydrology to determine what areas wetland and define the wetland boundaries. The wetland perimeter(s) will be staked and surveyed. Wetland boundary stake locations will be surveyed using a hand held Trimble R1 GNSS receiver.

One wetland delineation report including both bridge locations will be prepared summarizing the findings of the fieldwork. Included in the report will be the required wetland delineation data sheets that summarize the findings of the field investigation as well as

figures that detail the maps reviewed and current wetland boundaries of the site.

This task will include and ECOCAT review to determine the presence of any potential threatened or endangered species in the area. This scope of work does not include any threatened and endangered species surveys. HLR can conduct these surveys and can provide a separate scope of work for this task, if needed.

2.2 **Task 2: Jurisdictional Determination and SMC Wetland Boundary Verification (if needed)**

If necessary, HLR will prepare and submit a jurisdictional determination (JD) request to the USACE – Chicago District. The turnaround time for the USACE to perform a JD may be a few months or longer.

Since LCDOT will require a quicker turnaround, we propose to submit a Preliminary Jurisdictional Determination (PJD) to the Lake County Stormwater Commission (SMC) in lieu of submitting the JD performed to the USACE. Since this is a LCDOT project, LCSMC will handle watershed development review and permitting. SMC PJD fees are \$720.00 for the first wetland and \$180.00 each additional. SMC wetland boundary verifications are \$480.00 for the first wetland + \$180.00 each additional wetland. These fees will be handled between LCDOT and LCSMC and are not included in our fees. In some instances, the SMC requests that the wetland consultant meet at the site for boundary verification. A separate cost is included if a site meeting is required.

2.3 **Task 3: Wetland Permitting – USACE Permit (if needed)**

Any impacts to Waters of the US or jurisdictional wetlands will require Section 404 permits from the US Army Corps of Engineers (USACE). HLR will prepare and obtain any necessary permits from the USACE. The following is a summary of permitting requirements. HLR will complete and submit the Joint Application form and other necessary information to obtain a permit from the Chicago District Corps of Engineers. The Joint Application will be simultaneously submitted to the following agencies:

- US Army Corps of Engineers
- US Fish & Wildlife Service
- Illinois Department of Natural Resources (IDNR)
- Illinois Environmental Protection Agency (IEPA)
- Illinois Historic Preservation Agency (IHPA)

The Regional Permits issued by the USACE contain a conditional Section 401 Water Quality Certification built into the permit. If this project qualifies under the Regional Permit program, no separate Section 401 review will be required. For the purposes of this proposal, we will assume Regional permit can be obtained for the project and that mitigation will not be required. We assume preparation of 1 permit for the two metal shell pile repair projects. If an Individual Permit is required, additional scope will be required.

A Soil Erosion and Sediment Control Plan and Details will be developed for the two metal shell pile repair projects.

3. Clean Construction Demolition Debris (CCDD), Sampling and 663 Application

This service includes taking one sample at SN 049-5007 and at SN 049-3026 for soil characterization. It is anticipated that streambed material will be removed for concrete pile encasement repairs removal which will require 1 sample for each bridge. These samples will be used to establish pre-existing conditions and also for CCDD coordination. The soil samples will be submitted to a NELAC approved laboratory for analysis. We may analyze each soil sample for metals, volatiles, semivolatiles, polynuclear aromatic hydrocarbons and PCBs. The results of the analysis would be compared to the limits outlined in the Maximum Allowable Concentrations (MAC) of Chemical Constituents in Uncontaminated Soil Used as Fill Material At Regulated Fill Operations (35 Ill. Adm. Code 1100. Subpart F). A 663 will be prepared if levels meet MAC table limits. If the soils come back with any elevated levels, additional TCLP or SPLP analysis on those specific constituents may be required to determine if they are within the MAC table limits. This testing would be used to create a waste profile if it is necessary to take it to a landfill. A pre-approval from Thelen (or another nearby site) will be obtained. This task assumes that both samples will be taken on the same day, with CCDD coordination being completed for both bridges at the same time.

4. Design Engineering

4.1 Data Collection

HLR will review various resources and collect project pertinent data. This work will include detailed review of publicly available and Client provided information to fully understand the project requirements, complete field reconnaissance, and coordinate with other sub-consultants, as necessary.

Document Review – HLR will review the following publicly available and/or Client provided information:

- “As-Built” and original construction plans
- Existing Utility Atlases
- Publicly available and LCDOT GIS data
- Technical Reports and site-specific data provided by the Client

4.2 Utility Coordination

HLR will coordinate with utilities with determining their facility location, potential conflict determination, and resolution of those conflicts. The major work items under this task will include:

- A J.U.L.I.E. Design Level Locate request will be submitted.
- Project status letters will be prepared to the individual utility companies along with location map.
- HLR will verify the utilities identified on owner provided atlas maps.

- HLR will identify potential utility conflicts with the proposed improvements. These locations will be identified and sent to the utility for evaluation and verification.
- Pre-final plans will be emailed / sent to the utility companies. This submittal will include location of conflicts identified by the utilities.

4.3 Structural Engineering

Complete structural design and contract plan details for concrete repairs, steel improvements and to provide stabilization measures for damaged retaining walls noted in the Scope.

4.4 Proposed Design and Plan Set

Contract Plans - The plans will be prepared and submitted to the Client at the following intervals:

- **Pre-Final (90%)** – Plans and concepts are nearly complete and minor modifications are expected.
- **Final (100%)** – Plans are fully developed and are ready for distribution to contractors.

The plans are working drawings that show the location, configuration, and dimensions of the proposed construction activities. The plans will be prepared under the supervision of a Professional Engineer. The plan sets will generally be developed according the this listing and particulars noted in the scope of work for individual structures:

Title Sheet	1 Sheet
General Notes	1 Sheet
Summary of Quantities	1 Sheet
Schedule of Quantities	1 Sheet
Structure Repair Sheets & Details	20 Sheets
Maintenance of Traffic Plan & Details	14 Sheets
Soil Erosion and Sediment Control Plans and Details	4 Sheets
Existing Plan Sheets	15 Sheets
Special Details	1 Sheet
Standard Details	3 Sheets
Cross Sections (if required)	4 Sheets

Increases to the actual number of plans sheets as compared to the estimated sheets above may constitute additional work. HLR will notify the Client if additional work is

anticipated.

HLR will distribute electronic version of plans, bid documents, and estimate of probable costs to Client's Project Manager for distribution to reviewers. Comments provided will be reviewed and necessary updates will be made. Disposition to comments will be provided at the next submittal. The disposition to comments will be provided based on how HLR received them:

- Client provides a list of comments – HLR will provide a formal disposition to comments in letter/ tabular format.
- Client provides comment on plan and/or bid document sheets – HLR will provide written disposition to comments next to the comments provided by the Client.

4.5 **Bid Documents, Estimates of Probable Costs and Estimate of Time**

Estimate of Probable Cost and Time - HLR will prepare engineering opinions of probable construction costs and estimate of time for each submittal. Costs will be determined using available guides and bid tabulations from similar projects. In addition, the pay item reports with awarded prices from IDOT's website will be used to approximate current unit costs.

Bid Documents – Bid Documents will be prepared for the solicitation of contractor's construction services. Client will prepare the majority of the contract document. HLR will provide Special Provisions and an Estimate of Probable Cost in Word/Excel format.

Documents will be prepared using the latest (2022) edition of the IDOT "Standard Specifications for Road and Bridge Construction" and "Supplemental Specifications and Recurring Special Provisions".

Where a project work item contains work, material, unique sequence of operations or any other requirements that are not included in the Standard Specifications, Supplemental Specifications, Recurring Special Provisions, BDE Special Provisions or Guide Bridge Special Provisions, a project specific Special Provision will be written by HLR.

4.6 **Consultation and Coordination**

- **Kickoff Meeting** - Kickoff Meeting with Client (Virtual).
- **Coordination Meeting** - Coordination and design meeting with the Client (assume 2 meetings).
- **Consultation and Coordination** – HLR will coordinate with all regulatory agencies regarding the permitting and design phase of the project.

- **Request for Information** – HLR will correspond with the engineering team during construction for any questions that may arise.
- **Phase III Coordination** – HLR will coordinate with the Client to answer project related questions during construction.

Meeting minutes will be provided for each meeting.

5. **Design QCQA**

The HLR Project Manager will complete QCQA of each stage of the project to ensure compliance with the goals of the project, LCDOT and IDOT standards.

PAYROLL ESCALATION TABLE FIXED RAISES

FIRM NAME Hampton, Lenzini & Renwick
 PRIME/SUPPLEMENT Prime
 Prepared By Steve Megginson

DATE 12/10/21
 PTB-ITEM# 2022 Bridge Repairs

CONTRACT TERM 12 MONTHS
 START DATE 1/1/2022
 RAISE DATE 1/1/2023
 END DATE 12/31/2022

OVERHEAD RATE 160.00%
 COMPLEXITY FACTOR 0
 % OF RAISE 2%

ESCALATION PER YEAR

year	First date	Last date	Months	% of Contract
0	1/1/2022	12/31/2022	12	100.00%

The total escalation = 0.00%

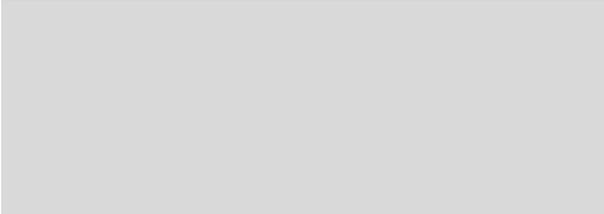
PAYROLL RATES

FIRM NAME Hampton, Lenzini & Ren **DATE** 12/10/21
PRIME/SUPPLEMENT Prime
PTB-ITEM # 2022 Bridge Repairs

ESCALATION FACTOR **0.00%**

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

CLASSIFICATION	IDOT PAYROLL RATES ON FILE	CALCULATED RATE
PRINCIPAL	\$ 73.75	\$73.75
ENGINEER 6	\$ 61.42	\$61.42
ENGINEER 5	\$ 52.50	\$52.50
ENGINEER 4	\$ 50.75	\$50.75
ENGINEER 3	\$ 45.40	\$45.40
ENGINEER 2	\$ 34.75	\$34.75
ENGINEER 1	\$ 27.56	\$27.56
STRUCTURAL 2	\$ 63.75	\$63.75
STRUCTURAL 1	\$ 51.33	\$51.33
TECHNICIAN 3	\$ 41.50	\$41.50
TECHNICIAN 2	\$ 34.33	\$34.33
TECHNICIAN 1	\$ 23.94	\$23.94
LAND ACQUISITION	\$ 16.00	\$16.00
SURVEY 2	\$ 45.33	\$45.33
SURVEY 1	\$ 43.17	\$43.17
ENVIRONMTL 2	\$ 36.17	\$36.17
ENVIRONMTL 1	\$ 45.00	\$45.00
ADMIN 2	\$ 24.25	\$24.25
ADMIN 1	\$ 42.33	\$42.33
INTERN/TEMP	\$ 22.50	\$22.50



Subconsultants

FIRM NAME Hampton, Lenzini & Renwick
PRIME/SUPPLEMENT Prime
PTB-ITEM # 2022 Bridge Repairs

DATE 12/10/21

NAME	Direct Labor Total	Contribution to Prime Consultant
WSE&T	7,000.00	700.00
Total	7,000.00	700.00

AVERAGE HOURLY PROJECT RATES

FIRM Hampton, Lenzini & Renwick
PTB-ITEM# 2022 Bridge Repairs
PRIME/SUPPLEMENT Prime

DATE 12/10/21

SHEET 1 OF 5

PAYROLL CLASSIFICATION	AVG HOURLY RATES	TOTAL PROJ. RATES			Admin & Coordination			NSBP (3SN) Deck Repair			SN3055, 3071, 9910 Repair			SN 3002 Concrete Repair			CPRR ROE & Review Fee		
		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	73.75	0.0																	
ENGINEER 6	61.42	0.0																	
ENGINEER 5	52.50	0.0																	
ENGINEER 4	50.75	130.0	9.25%	4.70	16	26.67%	13.53	16	15.69%	7.96	10	7.09%	3.60	6	13.64%	6.92	2	20.00%	10.15
ENGINEER 3	45.40	30.0	2.14%	0.97															
ENGINEER 2	34.75	0.0																	
ENGINEER 1	27.56	12.0	0.85%	0.24													4	40.00%	11.02
STRUCTURAL 2	63.75	207.0	14.73%	9.39	16	26.67%	17.00	8	7.84%	5.00	15	10.64%	6.78	8	18.18%	11.59			
STRUCTURAL 1	51.33	322.0	22.92%	11.76	8	13.33%	6.84	30	29.41%	15.10	40	28.37%	14.56	8	18.18%	9.33			
TECHNICIAN 3	41.50	0.0																	
TECHNICIAN 2	34.33	482.0	34.31%	11.78				36	35.29%	12.12	40	28.37%	9.74	16	36.36%	12.48			
TECHNICIAN 1	23.94	20.0	1.42%	0.34							20	14.18%	3.40						
LAND ACQUISITION	16.00	0.0																	
SURVEY 2	45.33	20.0	1.42%	0.65															
SURVEY 1	43.17	20.0	1.42%	0.61															
ENVIRONMTL 2	36.17	52.0	3.70%	1.34															
ENVIRONMTL 1	45.00	0.0																	
ADMIN 2	24.25	12.0	0.85%	0.21	12	20.00%	4.85												
ADMIN 1	42.33	98.0	6.98%	2.95	8	13.33%	5.64	12	11.76%	4.98	16	11.35%	4.80	6	13.64%	5.77	4	40.00%	16.93
INTERN/TEMP	22.50	0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
		0.0																	
TOTALS		1405.0	100%	\$44.93	60.0	100.00%	\$47.87	102.0	100%	\$45.15	141.0	100%	\$42.88	44.0	100%	\$46.10	10.0	100%	\$38.11

