March 11, 2020

Ms. Beth Ball, City Clerk
City of Peoria
419 Fulton Street, Suite 401
Peoria, Illinois 61602

Funding—Motor Fuel Tax (MFT)
City of Peoria
Section No.: 19-00029-00-EG
Glen Avenue (Sheridan Rd to IL Rt 40/N Knoxville Ave)

Dear Ms. Ball:

The Preliminary Engineering Services Agreement for Motor Fuel Tax Funds dated February 1, 2021, between the City of Peoria and Crawford, Murphy & Tilly, Inc. to be performed in connection with the improvement of the above section is approved.

*NOTE: Approval of this agreement does not authorize expenditure of MFT funds. Proper documentation must be received by our office prior to paying any bills out of the MFT account.

If you have any questions, please contact Mr. Simon Alwan at (309) 671-3694.

Sincerely,

Kensil A. Garnett D.E.

Kensil A. Garnett, P.E. Region Three Engineer

SJA/jjs

Attachments

cc: Mr. Bill Lewis, City Engineer

Mr. Eric Hansen, Crawford, Murphy & Tilly, Inc.

File

f 7

town and the state of the state

| Muni City | | | oria | L O | | С | Name Crawford, Murphy & Tilly, Inc | c . | | |
|-----------------------------|---|-------------|--|----------------|--|---------------------|--|----------------|--|--|
| Cour Pec Sect 19-0 | nty oria ion | | 00-EG | CAL AGENCY | Preliminary Engineering Services Agreement For Motor Fuel Tax Funds | ON SULTANT | Address 203 Harrison Street City Peoria State Illinois | | | |
| Age imp sup | HIS AGREEMENT is made and entered into this 1st day of February, 2021 between the above Local gency (LA) and Consultant (ENGINEER) and covers certain professional engineering services in connection with the approvement of the above SECTION. Motor Fuel Tax Funds, allotted to the LA by the State of Illinois under the general upervision of the State Department of Transportation, hereinafter called the "DEPARTMENT", will be used entirely or in part finance ENGINEERING services as described under AGREEMENT PROVISIONS. Section Description | | | | | | | | | |
| | | | | | Section Description | | | | | |
| Nar | ne | <u> </u> | Glen Avenue Reconstruction | | | | | | | |
| Rou | ıte | F | AU 6650 Length 0 | .52 | Mi. 2,725 FT | | (Structure No. |) | | |
| Teri | mir | ıi - | Sheridan Road to Knoxville | e Ave | enue (IL Route 40) | | | | | |
| | on | stru | ction of Glen Avenue from a | | ne rural section to a 3-lane urban se ewalks, and storm drainage structure | | cluding full-depth pavement rer | noval | | |
| | | | | | Agreement Provisions | | | | | |
| | | _ | eer Agrees, | | | | | | | |
| | | • | | | erformance of the following engineer described, and checked below: | ing serv | ices for the LA, in connection v | vith the | | |
| | a. | \boxtimes | Make such detailed survey | s as | are necessary for the preparation of | detailed | l roadway plans | | | |
| | b. | | Make stream and flood pla of detailed bridge plans. | in hy | draulic surveys and gather high wate | er data, | and flood histories for the prep | aration | | |
| | C. | | analyses thereof as may be | e req | n soil surveys or subsurface investiga uired to furnish sufficient data for the ade in accordance with the current r | e design | of the proposed improvement. | | | |
| | d. | \boxtimes | Make or cause to be made furnish sufficient data for the | such e de | n traffic studies and counts and spec sign of the proposed improvement. | ial inters | section studies as may be requ | ired to | | |
| | e. | | Prepare Army Corps of Eng Bridge waterway sketch, as agreements. | ginee nd/or | ers Permit, Department of Natural Re Channel Change sketch, Utility plan | esources and loc | s-Office of Water Resources Po cations, and Railroad Crossing | ermit, work | | |
| | f. | | | | ign and Hydraulic Report, (including vay overflows and bridge approaches | | nic analysis of bridge or culvert | types) | | |
| | g. | \boxtimes | with five (5) copies of the p | lans, | ailed plans, special provisions, prope special provisions, proposals and e furnished to the LA by the ENGINEE | stimates | Additional copies of any or a | the LA | | |
| | h. | \boxtimes | | | drafts in quadruplicate of all necessa nannel change agreements including | | | | | |

Note: Four copies to be submitted to the Regional Engineer

as required.

| | | j j |
|--|--|--------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

;

| | : [] A - i - t the - 1 A in the - t - health in and intermediation of the - | | |
|--------------------------|--|--|---|
| | i. Assist the LA in the tabulation and interpretation of the co | • , | |
| | j. Prepare the necessary environmental documents in accommendation DEPARTMENT's Bureau of Local Roads & Streets. | ordance with the procedures adopted t | y the |
| | k. 🛛 Prepare the Project Development Report when required | by the DEPARTMENT. | |
| (2) | 2) That all reports, plans, plats and special provisions to be furnish be in accordance with current standard specifications and polici such reports, plats, plans and drafts shall, before being finally and DEPARTMENT. | es of the DEPARTMENT. It is being u | nderstood that all |
| (3) | 3) To attend conferences at any reasonable time when requested | to do so by representatives of the LA o | r the Department. |
| (4) | 4) In the event plans or surveys are found to be in error during consurvey corrections are necessary, the ENGINEER agrees that he though final payment has been received by him. He shall give in minimum delay to the Contractor. | e will perform such work without expe | nse to the LA, even |
| (5) | 5) That basic survey notes and sketches, charts, computations and pursuant to this AGREEMENT will be made available, upon required without restriction or limitations as to their use. | | |
| (6) | 5) That all plans and other documents furnished by the ENGINEEF and will show his professional seal where such is required by la | | e endorsed by him |
| The | he LA Agrees, | | |
| cor Est the cor | . To pay the ENGINEER as compensation for all services perforn ompensation for these services shall not exceed \$390,000 with stimate of Consultant Services (Exhibit B) provides an estimate attached Scope of Services (Exhibit A). This estimate of woompensation. as stipulated in paragraphs 1a, 1g, 1i, 2, 3, 5 and 6 adicated by a check mark: | nout authorization from the LA. The te of the work tasks and the fee calc ork and effort is the basis of the upp | attached Cost culation based on er limit of |
| | a. A sum of money equal to percent of the | awarded contract cost of the propose | d improvement as |
| | approved by the DEPARTMENT. | , . | • |
| | b. A sum of money equal to the percent of the awarded conthe the DEPARTMENT based on the following schedule: | tract cost for the proposed improveme | nt as approved by |
| | Schedule for Percentages Based o | n Awarded Contract Cost | |
| | Awarded Cost | Percentage Fees | |
| | Under \$50,000 | | (see note) |
| | | | % |
| | Note: Not necessarily a percentage. Could | use per diem, cost-plus or lump sum. | |
| ^ | To the first and the state of t | L 4: 0 4L -44L - ENGINEER AGEER | at actual acet of |
| 2. | To pay for services stipulated in paragraphs 1b, 1c, 1d, 1e, 1f, 1 performing such work plus percent to cover profit, over | n, 1) & 1K of the ENGINEER AGREES rhead and readiness to serve - "actual | cost" being defined |





| | as material cost plus payrolls, insurance, social security and retirement deductions. Traveling and other out-of-pocket expenses will be reimbursed to the ENGINEER at his actual cost. Subject to the approval of the LA, the ENGINEER may sublet all or part of the services provided under the paragraph 1b, 1c, 1d, 1e, 1f, 1h, 1j & 1k. If the ENGINEER sublets all or part of this work, the LA will pay the cost to the ENGINEER plus a five (5) percent service charge. |
|------------|---|
| | "Cost to Engineer" to be verified by furnishing the LA and the DEPARTMENT copies of invoices from the party doing the work. The classifications of the employees used in the work should be consistent with the employee classifications for the services performed. If the personnel of the firm, including the Principal Engineer, perform routine services that should normally be performed by lesser-salaried personnel, the wage rate billed for such services shall be commensurate with the work performed. |
| ret les | That payments due the ENGINEER for services rendered in accordance with this AGREEMENT will be made without ainage upon receipt of monthly invoices from the ENGINEER. Such invoices shall be for partially completed work as all previous partial payments paid to the ENGINEER. Payments shall be made as soon as practicable after ceipt of each invoice. the services have been performed in accordance with the following schedule: |
| | Upon completion of detailed plans, special provisions, proposals and estimate of cost – being the work required by paragraphs 1a through 1g under THE ENGINEER AGREES – to the satisfaction of the LA and their approval by the DEPARTMENT, 90 percent of the total fee due under this AGREEMENT based on the approved estimate of cost. |
| | b. Upon award of the contract for the improvement by the LA and its approval by the DEPARTMENT, 100 percent of the total fee due under the AGREEMENT based on the awarded contract cost, less any amounts paid under "a" above. |
| | By Mutual agreement, partial payments, not to exceed 90 percent of the amount earned, may be made from time to time as the work progresses. |
| 3. | That, should the improvement be abandoned at any time after the ENGINEER has performed any part of the services provided for in paragraphs 1a, through 1h and prior to the completion of such services, the LA shall reimburse the ENGINEER for his actual costs plus percent the time and expense incurred up to the time he is notified in Abandonment. "actual cost" being defined as in paragraph 2 of THE LA AGREES. |
| 4. | That, should the LA require changes in any of the detailed plans, specifications or estimates except for those required pursuant to paragraph 4 of THE ENGINEER AGREEs, after they have been approved by the DEPARTMENT, the LA will pay the ENGINEER for such changes on a time and expense basis as calculated in Exhibit B. |
| | the basis of actual cost plus—percent to cover profit, overhead and readiness to serve "actual cost" being defined as in paragraph 2 of THE LA AGREES. It is understood that "changes" as—used in this paragraph shall in no way relieve the ENGINEER of his responsibility to prepare a complete and adequate—set of plans and specifications. |
| | |





It is Mutually Agreed,

- 1. That any difference between the ENGINEER and the LA concerning their interpretation of the provisions of this

 Agreement shall be referred to a committee of disinterested parties consisting of one member appointed by the

 ENGINEER, one member appointed by the LA and a third member appointed by the two other members for disposition

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





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

| Executed by the LA: | |
|---------------------------|--|
| | City of Peoria of the |
| | (Municipality/Township/County) |
| ATTEST: | State of Illinois, acting by and through its |
| By Silver Detle Sail | |
| Clerk | By Patrick Urich |
| (Seal) | Title City Morece |
| | , 4 |
| Executed by the ENGINEER: | Crawford, Murphy + Tilly, tre. |
| | |
| ATTEST: | Ei /. /- |
| By LWh | By Eric J. Hansen |
| Title SENIOR ENGINEER | Title Vice President |
| * | |
| | |
| | |
| Approved | |
| 03112/ | |



Date
Department of Transportation

Regional Engineer



EXHIBIT A

ESTIMATING DATA AND SCOPE OF SERVICES

Engineering and Surveying Services for Reconstruction of Glen Avenue from Sheridan Road to Knoxville Avenue

Section 18-00029-00-PV (Construction) Section 19-00029-00-EG (Engineering & ROW)

Programmed for construction in Year 2022

City of Peoria

The City of Peoria (City) and Crawford, Murphy & Tilly, Inc. (CMT) have developed the following scope of work for Work Order Number <u>03</u>.

PROJECT DESCRIPTION

Improvements to Glen Avenue from Sheridan Road to Knoxville Avenue (IL Route 40) are expected to include:

- New Concrete pavement constructed on a suitable pavement base. Alternative pavement sections will not be included in the bidding documents.
- New curb and gutter constructed along both sides of the street.
- New sidewalk and/or multiuse path constructed along both sides of the street. A turf buffer not less than 3 feet wide shall be provided behind the curb. A continuous obstruction free path for pedestrians shall be provided along both sides of the street throughout the project limits.
- The City's Bicycle Master Plan recommends a standard bike lane via pavement markings on Glen Avenue from Sheridan Road to Prospect Avenue.
- Design studies will establish a new vertical profile that is anticipated to be lower than the current pavement surface. Considerations will be adverse impacts to private property and impacts to existing buried utilities.
- A new storm sewer system will be constructed throughout the improvement length.
 Existing drainage structures and pipes in poor condition shall be replaced.

 Improvements to promote infiltration and reduce runoff volumes will be reviewed and implemented where possible.
- Bus stop facilities shall be allowed in coordination with City Link and in compliance with City of Peoria policies.
- Driveways to private property shall be reconstructed to comply with current ADA policies.
- Reconstruction of the intersection with Sheridan Road will be evaluated during design studies. An Intersection Design Study will be prepared to determine the improvement limits.
- An Intersection Design Study will be prepared for the intersection with Knoxville Avenue. Anticipated improvements on Glen Avenue include modifications to curb & gutter radii and lane configuration on the west leg of the intersection. Full Depth pavement reconstruction will end west of the Knoxville Avenue right of way line. Modifications to pavement, traffic signals, corner islands, and lane configurations on Knoxville Ave. are not anticipated and are not included as part of this project.
- Temporary construction easements throughout the project may be required and in some isolated locations, additional right of way might be necessary.
- Tree removal will be necessary to construct the improvements. IDOT's tree replacement policies will be followed.
- Project may include street lighting and/or other street amenities.

PROJECT SCHEDULE

The project will be advertised for bidding no later than on the March 2022 State Letting with anticipated start of construction May 1, 2022.

The following is a tentative list of project tasks/milestones and dates.

| Task/Milestone | IDOT Schedule | Project Schedule |
|---------------------------------------|--------------------|--------------------|
| Consultant Notice to Proceed | - | January 2021 |
| Environmental Survey Request | April 16, 2021 | April 16, 2021 |
| Intersection Design Study (if needed) | June 2, 2021 | June 2, 2021 |
| Draft PDR | July 30, 2021 | July 30, 2021 |
| Final PDR | September 15, 2021 | September 15, 2021 |
| Pre-Final PS&E | October 15, 2021 | October 15, 2021 |
| Final PS&E to IDOT District 4 | December 3, 2021 | December 3, 2021 |
| ROW to be Certified | January 19, 2022 | January 19, 2022 |
| Letting Date | March 4, 2022 | March 4, 2022 |
| Anticipated Start of Construction | - | May 1, 2022 |

FUNDING OF IMPROVEMENTS

Improvements shall be paid with a combination of Federal, state and local funds. The following funding sources and approximate funding levels are identified IDOT's LPA Multi-Year Program Project Request:

| FHWA STU Funds | \$1,274,000 | 26.3% |
|--------------------------|-------------|-------|
| Peoria County MFT | \$1,788,000 | 36.9% |
| City of Peoria State MFT | \$1,638,000 | 33.8% |
| City of Peoria Local MFT | \$150,000 | 3.3% |
| Totals | \$4,850,000 | 100% |

JURISDICTION APPROVAL

The City and CMT understand that approvals from IDOT are required before the project can be constructed. IDOT's approval process will be more extensive if construction activities will impact state or federal routes. The review time and approval process of IDOT is a factor that is beyond the control of the City and CMT. Glen Avenue is currently under Peoria's County's jurisdiction. Once construction is completed, a transfer of jurisdiction to the City will occur.

PROPERTY IMPACTS

This work order does include effort to acquire new right of way or easements for construction of the proposed improvements. Property appraisals and negotiations are included in this contract.

PROJECT FEATURES

The functional classification of <u>Glen Avenue</u> is a <u>Minor Arterial</u>. The street is also identified as <u>Federal Aid Urban (FAU) Route 6650</u> by the Illinois Department of Transportation.

- Average Daily Traffic in Year 2017: 9,750 vpd
- Posted Speed: 40 mph
- Existing typical cross section: <u>30 feet</u> from edge of shoulder to edge of shoulder
 - o One EB lane & one WB lane, 12 feet each (24 ft)
 - o Center median & left turn lane at Sheridan & Knoxville intersections
 - Rural with open channel ditches and urban with existing curb and gutter near Sheridan and Knoxville Intersections
 - o Existing sidewalk near Sheridan Road and Knoxville Avenue intersections
- Typical ROW width: 80 feet (100 feet at Sheridan Road intersection)
- Project length: 2,725 feet
- Number of Public Street Intersections: 8
- Number of Alleys: 0
- Number of private driveways: 47
- Number of residential properties: 44 parcels
- Number of commercial properties: 11 parcels
- · One church and several shopping centers and stores
- Estimated Construction Cost: \$4,000,000

POLICIES AND PROCEDURES

IDOT's Bureau of Local Roads Manual provides policies and procedures for projects utilizing Federal-Aid funds allocated to local public agencies.

Chapters 18 through 24 of IDOT's BLR manual provide directions for Federal-Aid funded construction projects. The scope of services for this improvement shall comply with the procedures prescribed in Chapters 22 Project Development and Chapter 23 Plan Development of IDOT's BLR manual.

DOCUMENTS TO BE DELIVERED

- Phase I Project Development
 - Categorical Exclusion Project Development Report (CE PDR) (BLR 22210)
 - o Approval of Design Variance (BLR 22120) if needed

- Phase II Plan Development
 - o Construction Plans
 - o Project Special Provisions
 - Estimate of Cost
 - o Estimate of Time
 - o Land Acquisition Documentation

TASK ITEM SUMMARY

MANAGEMENT, DATA COLLECTION AND PROPERTY RECORDS

- 1. Project Management
 - a. Monthly invoices
 - b. Utility company coordination
 - i. Identify existing utilities
 - ii. Identify conflicts and relocations
 - c. Coordination with City & IDOT
 - d. Quality Assurance Plan
 - i. Prepare a project specific quality assurance plan
 - ii. Review project deliverables for compliance
- 2. Route Surveys
 - a. Horizontal and Vertical Control
 - b. Topographic Features along Roadway 10 feet beyond ROW on each side
 - c. Existing property pins along the street
 - d. Supplemental Drone Survey
 - e. Mapping of property lines and topography
- 3. Utility & Property Data Collection
 - a. Review of utility as-builts and records
 - b. Title commitments and document search for adjacent properties

PROJECT DEVELOPMENT (PHASE I)

- 4. Environmental Review
 - a. Environmental Survey Request
 - i. Cultural surveys
 - ii. Biological & Wetland Survey
 - iii. Special Waste IDOT ROW
 - b. Preliminary Environmental Site Assessment (PESA) LPA ROW
- 5. Project Studies
 - a. Alignment Studies
 - i. Cross Section
 - ii. Vertical Profile
 - b. Sheridan Road Intersection Design Study
 - i. Existing and proposed traffic volumes
 - ii. Traffic capacity analysis
 - iii. Intersection geometrics
 - c. Knoxville Avenue Intersection Design Study
 - i. Existing and proposed traffic volumes
 - ii. Traffic capacity analysis
 - iii. Intersection geometrics
 - d. Drainage Studies & Design
 - e. Subsurface soil testing & Pavement Design
 - f. Design Exceptions

- g. Commitments
- h. Project Development Report (PDR)
- 6. Public Involvement
 - a. Public meeting
 - b. Property owner meetings

PLAN DEVELOPMENT (PHASE II)

- 7. Construction Plans
 - a. Cover Sheet & General Notes
 - b. Summary of Quantities & Schedules
 - c. Typical Sections
 - d. Alignment Control
 - e. Removal Plans
 - f. Plan & Profile Sheets
 - g. Traffic Control Plan
 - h. Storm Water Pollution Prevention Plan
 - i. Intersection Grading Plans
 - j. Pavement Marking & Signing Plans
 - k. Traffic Signal Plans (if needed)
 - I. Lighting Plans (if needed)
 - m. Miscellaneous Details
 - n. Cross Sections
- 8. Special Provisions & Estimate of Cost and Time
- 9. Land Acquisition Services (20 parcels estimated)
 - a. Waiver Valuations complete by LPA
 - b. Negotiations
 - c. Certification Documents in accordance with IDOT procedures

EXHIBIT B

COST ESTIMATE OF CONSULTING SERVICES

Engineering and Surveying Services for Reconstruction of Glen Avenue from Sheridan Road to Knoxville Avenue

Section 18-00029-00-PV (Construction) Section 19-00029-00-EG (Engineering & ROW)

Programmed for construction in Year 2022

City of Peoria



COST ESTIMATE OF CONSULTANT SERVICES WORKSHEET

ANNIVERSARY RAISE

| Section Number 19-00029-00-EG | bate Date 2/17/2021 |
|------------------------------------|--|
| Local Public Agency City of Peoria | Sonsultant (Firm) Name Crawford, Murphy & Tilly E. Munday |

PAYROLL ESCALATION TABLE

| SHINOM 6 | 3/1/2021 | ANNIVERSARY |
|---------------|------------|-------------|
| CONTRACT TERM | START DATE | RAISE DATE |

COMPLEXITY FACTOR % OF RAISE OVERHEAD RATE

0.035 2.00% 168.85%

ESCALATION PER YEAR

DETERMINE THE MID POINT OF THE AGREEMENT

CALCULATE THE ESCALATION FACTOR TO THE MIDPOINT OF THE CONTRACT

0.75%

The total escalation for this project would be:

0.75%

Local Public AgencyCountySection NumberCity of PeoriaPeoria19-00029-00-EG

PAYROLL RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Anniversary Raise

MAXIMUM PAYROLL RATE 70 478.00 ESCALATION FACTOR 0.75%

| | IDOT | | 1 |
|--------------------------------|--|----------------------|-----|
| CLASSIFICATION | PAYROLL RATES | CALCULATED RATE | |
| | ON FILE | | Ι. |
| 10. Principal | \$78.00 | \$78. 0 0 | 70° |
| 20. Project Engineer II | \$66.95 | \$67.45 | 1 |
| 30. Project Engineer I | \$52.01 | \$52.40 | 1 |
| 40. Senior Engineer I | \$38.62 | \$38.91 | |
| 42. Technical Manager II | \$47.46 | \$47.82 | |
| 43. Sr. Planner I | \$40.83 | \$41.14 | |
| 46. Sr. Structural Engineer II | \$50.87 | \$51.25 | |
| 50. Engineer I | \$30.57 | \$30.80 | |
| 70. Land Surveyor | \$42.88 | \$43.20 | |
| 80. Sr. Technician I | \$37.19 | \$37.47 | |
| 81. Sr. Technician II | \$47.48 | \$47.84 | |
| 90. Technician II | \$31.13 | \$31.36 | |
| 100. Technican I | \$26.27 | \$26.47 | |
| 110. Administrative Assistant | \$20.40 | \$20.55 | |
| | | | |
| | A CONTROL OF THE STATE OF THE S | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | i. |
|--|--|----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Local Public Agency

City of Peoria

County Peoria

19-00029-00-EG

Section Number

COST ESTIMATE WORKSHEET

Exhibit E Cost Estimate of Consultant Services Worksheet Anniversary Raise

3.50%

COMPLEXITY FACTOR

| 168.85% | |
|---------------|---|
| OVERHEAD RATE | 1 |

| TASK | STAFF HOURS | PAYROLL | OVERHEAD & FRINGE BENEFITS | DIRECT COSTS | FIXED FEE | SERVICES BY OTHERS | TOTAL | % OF GRAND TOTAL |
|---------------------------------------|-------------|---------|----------------------------|--------------|-----------|-----------------------|---------|---------------------|
| 1. Project Management | 142 | 6,834 | 11,540 | 56 | 2,495 | | 20,925 | 5.37% |
| 2. Route Surveys | 284 | 9,033 | 15,252 | 4,570 | 3,297 | | 32,152 | 8.25% |
| 3. Utility & Property Data Collection | 92 | 3,140 | 5,302 | 13,750 | 1,146 | | 23,338 | 2.99% |
| 4. Environmental Review | 32 | 1,677 | 2,831 | | 612 | 10,000 | 15,120 | 3.88% |
| 5. Project Studies | 784 | 30,461 | 51,433 | | 11,118 | 5,000 | 98,012 | 25.14% |
| 6. Public Involvement | 48 | 2,204 | 3,721 | | 804 | | 6,729 | 1.73% |
| 7. Construction Plans | 906 | 30,715 | 51,862 | | 11,211 | | 93,788 | 24.05% |
| 8. Special Provisions & Estimates | 80 | 3,907 | 965'9 | | 1,426 | | 11,929 | 3.06% |
| 9. Land Acquisition Services | 989 | 28,749 | 48,542 | 126 | 10,493 | | 87,910 | 22.55% |
| | | 1 | 1 | | 1 | | 1 | |
| | | 3 | 1 | | *** | | 1 | |
| | | | 1 | | _ | | 1 | |
| | | 1 | • | | | | - | |
| | | ī | I | | | | | |
| | | | * | | 24 | | 1 | |
| | | • | 3 | | | | 1 | |
| | | 1 | 1 | | 1 | | 1 | |
| | | # | • | | 3 | | 1 | |
| | | • | 1 | | 1 | | 1 | |
| | | • | 1 | | 1 | | ı | |
| | | - | • | | - | | 1 | |
| | | 1 | 1 | | 1 | | | |
| | | 1 | • | | 1 | | - | |
| | | 1 | | | 1 | | _ | |
| Subconsultant DL | | | | | 0 | | 1 | |
| TOTALS | 3037 | 116,720 | 197,079 | 18.502 | 42.602 | 15.000 | 389,903 | 100.00% |

| | | | 3) | , |
|--|--|---|----|---|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | · | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

HI SET 3 (Rev. 02/01/47)

City of Peoria

Local Public Agency

County Peoria

Section Number 19-00029-00-EG

P

AVERAGE HOURLY PROJECT RATES
Exhibit E Cost Estimate of Consultant Services Worksheet Anniversary Raise

| | | | | | | | | | | | | With the Party of | | | | | | | |
|--------------------------------|--------|-------------------|----------|---------|------------|-----------------------|----------------------|------------------|--------|---------|----------------------------|---|-------|----------------|-------------------------|---------------|--------------------|---------|---------|
| PAYROLL | AVG | TOTAL PROJ. RATES | J. RATES | - | 1. Project | 1. Project Management | | 2. Route Surveys | urveys | ۰, ن | 3. Utility & Collection | 3. Utility & Property Data Collection | | - 4. Enviro | 4. Environmental Review | | 5. Project Studies | Studies | |
| | HOURLY | Hours | % | Wgtd | Hours | % | Vgtd | Hours | % | Wgtd | Hours | | Wgtd | Hours | % | Wgtd | Hours | % | Wgtd |
| CLASSIFICATION | RATES | | Part. | Avg | | Part. | Avg | | Part. | Avg | | Part. | Avg | | Part. | Avg | | Part. | Avg |
| 10. Principal 子()望 | 78:00 | 0.0 | | | | | | | | 1535 | | | 200 | | | | | | |
| 20. Project Engineer II | 67.45 | 110.0 | 3.62% | 2.44 | 30 | 21.13% | 14.25 | 8 | 2.82% | 1.90 | | | | | | | 40 | 5.10% | 3.44 |
| 30. Project Engineer I | 52.40 | 314.0 | 10.34% | 5.42 | 48 | 33.80% | 17.71 | | | | 28 | 36.84% | 19.31 | 32 | 100.00% | 52.40 | 52 | 6.63% | 3.48 |
| 40. Senior Engineer I | 38.91 | 640.0 | 21.07% | 8.20 | 40 | 28.17% | 10.96 | 40 | 14.08% | 5.48 | 24 | 31.58% | 12.29 | | | | 420 | 53.57% | 20.84 |
| 42. Technical Manager II | 47.82 | 0.0 | | | | | 150(6) | 300 | | 2295 | | | | | | | 1969 | | |
| 43. Sr. Planner I | 41.14 | 623.0 | 20.51% | 8.44 | | | 276.S | | | | | | | | | | | | |
| 46. Sr. Structural Engineer II | 51.25 | 0.0 | | | | | 987 | | | rosit | | | | | | | | | |
| 50. Engineer I | 30,80 | 740.0 | 24.37% | 7.50 | 24 | 16.90% | 5.21 | 09 | 21.13% | 6.51 | 24 | 31.58% | 9.73 | | | | 184 | 23.47% | 7.23 |
| 70. Land Surveyor | 43.20 | 0.0 | | | | | 4389d | | | (1995) | 100 | | | | | | 1 | | |
| 80. Sr. Technician I | 37.47 | 194.0 | 6.39% | 2.39 | | | | | | AT 5704 | | | | | | | 44 | 5.61% | 2.10 |
| 81. Sr. Technician II | 47.84 | 28.0 | 0.92% | 0.44 | | | | | | 5,500 | | | | | | | | | |
| 90. Technician II | 31.36 | 132.0 | 4.35% | 1.36 | | | | 88 | 30.99% | 9.72 | | | ., | | | | 44 | 5.61% | 1.76 |
| 100. Technican I | 26.47 | 256.0 | 8.43% | 2.23 | | | 500 | 88 | 30.99% | 8.20 | | | | | | | | | |
| 110. Administrative Assistant | 20.55 | 0.0 | | | | | 44576 | | | -508 | | | | | | | | | |
| | | 0.0 | | | | | 8,837 | | | | | | | | | | | | |
| | | 0.0 | | | | | Syllegic Syllegic | | | 755 | | | | | | | 12 | | |
| | | 0.0 | | | | | | | | 469 | | | | | | | | | |
| | | 0.0 | | | | | 93762 | | | 40,500 | | | | | | | | | |
| | | 0.0 | | | | | | | | 440 | | | | | | | | | |
| | | 0.0 | | | | | | | | | | | | | | | | Ī | |
| | | 0.0 | | | | | -2966 | | | e-292 | | | | | | | | | |
| TOTALS | | 3037.0 | 100% | \$38.43 | 142 0 | 142 0 100 00% | \$48.13 | 284.0 | 100% | \$31.81 | 76.0 | 100% \$41.32 | | 32.0 | 100% | \$52.40 784.0 | | 100% | \$38.85 |

HI AND SET SER 05513 (Rev. 02/01/24)
Ang HB2

County Peoria

Local Public Agency City of Peoria

Section Number

19-00029-00-EG

AVERAGE HOURLY PROJECT RATES

Exhibit E Cost Estimate of Consultant Services Worksheet Fixed Raise

| | | | | | | | | | | | | | SHEET | • | 2 | OF. | 2 | |
|--------------------------------|--------|--------|-----------------------|-----------|---------|-----------------------|--|--------------------------------------|-----------------------------|---------------|---------------------------------|-----------------|-------|-------|-------|-------|-------|--------|
| PAYROLL | AVG | 6. Pub | 6. Public Involvement | ament | 7. Cons | 7. Construction Plans | | 8. Special Provisions & Estimates | cial Provision Estimates | | 9. Land Acquisition Services | luisition es | | | | | | |
| MOITACIBIONALIO | HOURLY | Hours | % | | Hours | % } | | Hours | | Wgtd Hours | | L | Hours | % | Wgtd | Hours | % | Wgtd |
| 10. Principal | 78,00 | | rart. | Avg | | ran. | Avg | - | Part. | Avg | Part | Avg | | Part. | Avg | | Part. | Avg |
| ingineer II | 67.45 | 8 | 16.67% | 11.24 | 20 | 2.21% | 1.49 | 4 5. | 5.00% 3 | 3.37 | | | | | | | | |
| 30. Project Engineer I | 52.40 | 20 | 41.67% | 21.83 | | 4.42% | 2.31 | 60 75 | 75.00% 3 | 39.30 34 | 4.96% | 6 2.60 | | | | | ľ | |
| 40. Senior Engineer I | 38.91 | | | | 116 1 | 12.80% | 4.98 | | | | | | | | | | | |
| 42. Technical Manager II | 47.82 | | | 5500 | | | | | | 10.50 | | | | | | 20 | | |
| 43. Sr. Planner I | 41.14 | | | | | | | | | 623 | 3 90.95% | 37.41 | | | | | | |
| 46. Sr. Structural Engineer II | 51.25 | | | Manager 1 | | | | | - | | | | | | | | | |
| 50. Engineer I | 30.80 | - 20 | 41.67% | 12.83 | 412 4 | 45.47% | 14.01 | 16 20 | 20.00% 6 | 6.16 | | | | | | | | |
| 70. Land Surveyor | 43.20 | | | | | | 70 | | | | | _ | | | | | | |
| 80. Sr. Technician I | 37.47 | | | | 150 1 | 16.56% | 6.20 | | | | | | | | | | | |
| 81. Sr. Technician II | 47.84 | | | | | | | | | 28 | 3 4.09% | 1.96 | | | | | | |
| 90. Technician II | 31.36 | | | | | | | | | | | | | | | | | |
| 100. Technican I | 26.47 | | | | 168 | 18.54% | 4.91 | | | | | | | | | | | |
| 110. Administrative Assistant | 20.55 | | | | | | | | | | | | | | | | | |
| | | | | 90,500 | | | | | | | | | | | | | | |
| | | | | 3,000 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | 00002 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| TOTALS | | 48.0 | 100% | \$45.91 | 0.906 | 100% | \$33.90 | 80.0 | 100% \$4 | \$48.83 685.0 | 100% | \$41.97 | 0.0 | %0 | 80.00 | 00 | %0 | 00 0\$ |

Estimate of Effort by Task

FIRM NAME: ROUTE: CRAWFORD, MURPHY AND TILLY.

ROUTE: WORK ORDER Glen Avenue

20-03 DATE: 09/27/17

| - | | Task | | CMT Hours |
|----|--|-----------|-----------|------------------|
| 1. | Management, Data Collection and Property Records Project Management | | | 24 |
| | a. Monthly invoicesb. Coordination with City & IDOT | | | 64 |
| | c. Quality Assurance Plan | | Sub-total | 54 142 |
| 2. | Route Surveys | | | |
| | a. Horizontal and Vertical Control b. Topographic Features along Roadway – 10 feet beyond ROW | | | 16 160 |
| | c. Existing property pins along the street | | | 32 |
| | d. Supplemental Drone Survey | | | 16 |
| | e. Mapping of ROW and Topography | | Sub-total | 60 284 |
| 3. | Utility & Property Data Collection | | | |
| | a. Review of utility as-builts and records b. Title commitments and document search | | | 24 16 |
| | c. Utility company coordination (9 companies @ 4hrs each) | | | 36 |
| | | | Sub-total | 76 |
| 1 | Project Development (Phase I) Environmental Review | | | |
| ٠. | a. Environmental Survey Request | | | 32 |
| | b. Preliminary Environmental Site Assessment (PESA) – LPA | | | ANDREWS |
| | | | Sub-total | 32 |
| 5. | Project Studies | | | |
| | a. Alignment Studies | | | 80 133 |
| | b. Sheridan Rd Intersection Design Studies c. Knoxville Ave. Intersection Design Studies | | | 132 132 |
| | d. Drainage Studies | | | 160 |
| | e. Geotechnical Report/Pavement Design | | | 16 16 |
| | f. Design Exceptions g. Commitments | | | 16 8 |
| | h. Project Development Report (PDR) | | | 240 |
| | | | Sub-total | 784 |
| 6. | Public Involvement | | | 48 |
| | | | Sub-total | 48 |
| | Plan Development (Phase II) | | | |
| 7. | Construction Plans | # of Shts | Hrs/Sht | |
| | a. Cover Sheet & General Notes | 2 | 4 | 8 |
| | b. Summary of Quantities & Schedules | 5 | 8 | 40 |
| | c. Typical Sections d. Alignment Control | 2 | 16 8 | 32 24 |
| | e. Removal Plans | 3 | 20 | 60 |
| | f. Plan & Profile Sheets (5 Street and 5 Storm Sewer) | 10 | 20 | 200 |
| | g. Traffic Control Plan h. Storm Water Pollution Prevention Plan | 6 | 20 10 | 120 30 |
| | i. Intersection Grading Plans | 8 | 16 | 128 |
| | j. Pavement Marking & Signing Plans | 3 | 4 | 12 |
| | k. Traffic Signal Plans (if needed) | 2 | 50 | 100 |

| | | , |
|--|--|---|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Estimate of Effort by Task

FIRM NAME:

CRAWFORD, MURPHY AND TILLY, Glen Avenue

ROUTE: Glen

WORK ORDER

20-03

DATE: 09/27/17

| Task | | | CMT Hours |
|---|----|-----------|--------------|
| I. Lighting Plans (if needed) | 0 | 12 | 0 |
| m. Miscellaneous Details | 4 | 8 | 32 |
| n. Cross Sections | 20 | 6_ | 120 |
| | | Sub-total | 906 |
| 8. Special Provisions & Estimate of Cost and Time | | | 80 |
| | | Sub-total | 80 |
| 9. Land Acquisition Services (20 parcels estimted) a. Waiver Valuations complete by LPA b. Negotiations & Certification Documents | | | 80 605 |
| | | Sub-total | 685 |

| | | ٧. |
|--|--|----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

FIRM NAME: CRAWFORD, MURPHY AND TILLY, INC.
ROUTE: Glen Avenue

SECTION: <u>20-03</u> COUNTY: 0

DATE: 02/27/20

In House Direct Costs

| Tas | k Description of Expens | se e | |
|-----|-------------------------|----------------------------|-------------|
| | Travel Expense | | |
| 2 | Lodging | 9 days, 2 rm, \$80/rm | \$ 1,440.00 |
| 2 | Meals | \$28 x 9 days X 2 | \$ 504.00 |
| 2 | Travel (Spfld/Peoria) | 75 miles, 3 trips, \$0.56 | \$ 126.00 |
| 9 | Travel (Spfld/Peoria) | 75 miles, 3 trips, \$0.56 | \$ 126.00 |
| | Contingency/Misc | | |
| | | | \$ 2,196.00 |
| 1 | Travel (Local) | 10 miles, 10 trips, \$0.56 | \$ 56.00 |
| | | | \$ 56.00 |
| 2 | Drone Flight & Mapping | | \$ 2,500.00 |

Outside Direct Costs

| Task Description of Expense | | Provided By | Calculation | Amount | |
|-----------------------------|------------------------------------|---------------|-------------------------------|-------------|--|
| | Property Records | | | | |
| 3 | Title Commitments - Initial Search | Chicago Title | 55 parcels @ \$250/each | \$13,750.00 | |
| | | | Tota | \$13,750.00 | |
| | Construction Plans | | | | |
| | Pre-final Plan Set (84 shts) | CBT | B-size, 2 sets @ \$0.15/Sq ft | g ft | |
| | Final Plan Set (84 shts) | CBT | B-size, 2 sets @ \$0.15/Sq ft | | |
| | | | Total | \$0.00 | |

CMT Project Number: 20006003.00

| | | ». |
|--|--|----|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |