

THE STATE OF TEXAS §

COUNTY OF DALLAS §

Professional Services Contract
with Huitt-Zollars, Inc.

THIS CONTRACT is entered into on this 5th day of April, 2016, by and between the **CITY OF CARROLLTON, TEXAS**, a municipal corporation located in Dallas County, Texas, (hereinafter referred to as "City"), acting by and through its City Manager or his designee, and Huitt-Zollars, Inc. ("hereinafter referred to as "Consultant") whose address is 1717 McKinney Ave., Suite 1400, Dallas, TX 75202.

W I T N E S S E T H:

WHEREAS, City desires to obtain professional services from Consultant for the design of Indian Creek Phase II Channel Improvements

WHEREAS, Consultant is an architectural, engineering, professional planning, urban design, or landscape architecture firm qualified to provide such services and is willing to undertake the performance of such services for City in exchange for fees hereinafter specified; NOW, THEREFORE,

THAT IN CONSIDERATION of the covenants and agreements hereinafter contained and subject to the terms and conditions hereinafter stated, the parties hereto do mutually agree as follows:

I.

Employment of Consultant

Consultant will perform as an independent contractor all services under this Contract to the prevailing professional standards consistent with the level of care and skill ordinarily exercised by members of the architectural, engineering and planning professions, both public and private, currently practicing in the same locality under similar conditions including but not limited to the exercise of reasonable, informed judgments and prompt, timely action. If Consultant is representing that it has special expertise in one or more areas to be utilized in this Contract, then Consultant agrees to perform those special expertise services to the appropriate local, regional and national professional standards.

II.

Scope of Services

Consultant shall perform such services as are necessary to prepare plans and specifications as described in Attachment A of this agreement.

III.

Payment for Services

Total payment for services described herein shall be a sum not to exceed One Hundred Seventy-Four Thousand, Five Hundred Seventy-Five Dollars (\$174,575.00). This total payment for services includes Consultant's ordinary expenses. Additional expenses, which are extraordinary in nature, shall be approved in advance by City in writing signed by the parties. Such extraordinary expenses may be paid as incurred and billed to the City pursuant to this Contract over and above the total payment amount identified in this provision. Any extraordinary expenses not approved in writing in advance by the City shall remain the sole responsibility of the Consultant.

Consultant will bill City on a percent complete basis in accordance with Attachment "B"; provided however that this Contract shall control in the event of any conflict between the language in Attachment "B" and the language in this Contract. If additional services, trips or expenses are requested, Consultant will not provide such additional services until authorized by City in writing to proceed. The scope of services shall be strictly limited. City shall not be required to pay any amount in excess of the amount identified in the preceding paragraph unless City shall have approved in writing in advance (prior to the performance of additional work) the payment of additional amounts.

Each month Consultant will submit to City an invoice supporting the percentage complete for which payment is sought. Each invoice shall also state the percentage of work completed on the Project through the end of the then submitted billing period, the total of the current invoice amount and a running total balance for the Project to date.

Within thirty (30) days of receipt of each such monthly invoice City shall make monthly payments in the amount shown by Consultant's approved monthly statements and other documentation submitted.

Nothing contained in this Contract shall require City to pay for any work that is unsatisfactory as determined by City or which is not submitted in compliance with the terms of this Contract, nor shall failure to withhold payment pursuant to the provisions of this section constitute a waiver of any right, at law or in equity, which City may have if Consultant is in default, including the right to bring legal action for damages or for specific performance of this Contract. Waiver of any default under this Contract shall not be deemed a waiver of any subsequent default.

IV.

Revisions of the Scope of Services

City reserves the right to revise or expand the scope of services after due approval by City as City may deem necessary, but in such event City shall pay Consultant equitable compensation for such services. In any event, when Consultant is directed to revise or expand the scope of services under this Section of the Contract, Consultant shall provide City a written proposal for the entire costs involved in performing such additional services. Prior to Consultant undertaking any revised or expanded services as directed by City under this Contract, City must authorize in writing the nature and scope of the services and accept the method and amount of compensation and the time involved in all phases of the Project.

It is expressly understood and agreed by Consultant that any compensation not specified in Paragraph III herein above may require Carrollton City Council approval and is subject to the current budget year limitations.

V. Term

This Contract shall begin on the date first written above, and shall terminate when City has approved the Project as being final or otherwise terminates this Contract as provided herein.

VI. Contract Termination Provision

This Contract may be terminated at any time by City for any cause by providing Consultant thirty (30) days written notice of such termination. Upon receipt of such notice, Consultant shall immediately terminate working on, placing orders or entering into contracts for supplies, assistance, facilities or materials in connection with this Contract and shall proceed to promptly cancel all existing contracts insofar as they are related to this Contract.

VII. Ownership of Documents

All materials and documents prepared or assembled by Consultant under this Contract shall become the sole property of City and shall be delivered to City without restriction on future use. Consultant may retain in its files copies of all drawings, specifications and all other pertinent information for the work. Consultant shall have no liability for changes made to any materials or other documents by others subsequent to the completion of the Contract.

VIII.

Insurance Requirements

A. Before commencing work, Consultant shall, at its own expense, procure, pay for and maintain during the term of this Contract the following insurance written by companies approved by the state of Texas and acceptable to the City. Consultant shall furnish to the City of Carrollton Engineering Director certificates of insurance executed by the insurer or its authorized agent stating coverages, limits, expiration dates and compliance with all applicable required provisions. Certificates shall reference the project/contract number and be provided to the City.

1. Commercial General Liability insurance, including, but not limited to Premises/Operations, Personal & Advertising Injury, Products/Completed Operations, Independent Contractors and Contractual Liability, with minimum combined single limits of \$1,000,000 per-occurrence, \$1,000,000 Products/Completed Operations Aggregate and \$1,000,000 general aggregate. Coverage must be written on an occurrence form. The General Aggregate shall apply on a per project basis.
2. Workers' Compensation insurance with statutory limits; and Employers' Liability coverage with minimum limits for bodily injury: a) by accident, \$100,000 each accident, b) by disease, \$100,000 per employee with a per policy aggregate of \$500,000.
3. Business Automobile Liability insurance covering owned, hired and non-owned vehicles, with a minimum combined bodily injury and property damage limit of \$1,000,000 per occurrence.
4. Professional Liability Insurance to provide coverage against any claim which the consultant and all consultants engaged or employed by the consultant become legally obligated to pay as damages arising out of the performance of professional services caused by error, omission or negligent act with minimum limits of \$2,000,000 per claim, \$2,000,000 annual aggregate.

NOTE: If the insurance is written on a claims-made form, coverage shall be continuous (by renewal or extended reporting period) for not less than *thirty-six (36) months* following completion of the contract and acceptance by the City of Carrollton.

B. With reference to the foregoing required insurance, the consultant shall endorse applicable insurance policies as follows:

1. A waiver of subrogation in favor of City of Carrollton, its officials, employees, and officers shall be contained in the Workers' Compensation insurance policy.
 2. The City of Carrollton, its officials, employees and officers shall be named as additional insureds on the Commercial General Liability policy, by using endorsement CG2026 or broader.
 - 3.. All insurance policies shall be endorsed to the effect that City of Carrollton will receive at least thirty (30) days notice prior to cancellation, non-renewal, termination, or material change of the policies.
- C. All insurance shall be purchased from an insurance company that meets a financial rating of B+VI or better as assigned by A.M. Best Company or equivalent.

IX. **Right to Inspect Records**

Consultant agrees that City shall have access to and the right to examine any directly pertinent books, documents, papers and records of Consultant involving transactions relating to this Contract. Consultant agrees that City shall have access during normal working hours to all necessary Consultant facilities and shall be provided adequate and appropriate work space in order to conduct audits in compliance with the provisions of this section. City shall give Consultant reasonable advance notice of intended audits.

Consultant further agrees to include in subcontract(s), if any, a provision that any subcontractor or engineer agrees that City shall have access to and the right to examine any directly pertinent books, documents, papers and records of such engineer or subcontractor involving transactions to the subcontract, and further, that City shall have access during normal working hours to all such engineer or sub-contractor facilities and shall be provided adequate and appropriate work space, in order to conduct audits in compliance with the provisions of the paragraph. City shall give any such engineer or sub-contractor reasonable advance notice of intended audits.

X. **Successors and Assigns**

City and Consultant each bind themselves and their successors, executors, administrators and assigns to the other party to this contract and to the successors, executors, administrators and assigns of such other party in respect to all covenants of this Contract. Neither City nor Consultant shall assign or transfer its interest herein without the prior written consent of the other.

XI.
CONSULTANT's Liability

Acceptance of the final plans by the City shall not constitute nor be deemed a release of the responsibility and liability of Consultant, its employees, associates, agents or consultants for the accuracy and competency of their designs, working drawings, specifications or other documents and work; nor shall such acceptance be deemed an assumption of responsibility by City for any defect in the designs, working drawings, specifications or other documents and work; nor shall such acceptance be deemed an assumption of responsibility by City for any defect in the designs, working drawings, specifications or other documents and work prepared by said Consultant, its employees, associates, agents or sub-consultants.

XII.
INDEMNIFICATION

CONSULTANT DOES HEREBY COVENANT AND CONTRACT TO WAIVE ANY AND ALL CLAIMS, RELEASE, DEFEND, INDEMNIFY, AND HOLD HARMLESS THE CITY, ITS CITY COUNCIL, OFFICERS, EMPLOYEES, AND AGENTS, IN BOTH THEIR PUBLIC AND PRIVATE CAPACITIES, FROM AND AGAINST ALL LIABILITY, CAUSES OF ACTION, CITATIONS, CLAIMS, COSTS, DAMAGES, DEMANDS, EXPENSES, FINES, JUDGMENTS, LOSSES, PENALTIES OR SUITS, WHICH IN ANY WAY ARISE OUT OF, RELATE TO, OR RESULT FROM CONSULTANT'S PERFORMANCE UNDER THIS CONTRACT OR WHICH ARE CAUSED BY THE INTENTIONAL WRONGFUL ACTS OR NEGLIGENT ACTS OR OMISSIONS OF CONSULTANT, ITS SUBCONTRACTORS, ANY OFFICERS, AGENTS OR EMPLOYEES OF EITHER CONSULTANT OR ITS SUBCONTRACTORS, AND ANY OTHER THIRD PARTIES FOR WHOM OR WHICH CONSULTANT IS LEGALLY RESPONSIBLE (THE "INDEMNIFIED ITEMS") SUBJECT TO THE LIMITATIONS IN TEXAS LOCAL GOVERNMENT CODE § 271.904 (A) AND TEXAS CIVIL PRACTICE AND REMEDIES CODE, § 130.002 (B).

BY WAY OF EXAMPLE, THE INDEMNIFIED ITEMS MAY INCLUDE PERSONAL INJURY AND DEATH CLAIMS AND PROPERTY DAMAGE CLAIMS, INCLUDING THOSE FOR LOSS OF USE OF PROPERTY.

INDEMNIFIED ITEMS SHALL INCLUDE ATTORNEYS' FEES AND COSTS, COURT COSTS, AND SETTLEMENT COSTS. INDEMNIFIED ITEMS SHALL ALSO INCLUDE ANY EXPENSES, INCLUDING ATTORNEYS' FEES AND EXPENSES, INCURRED BY AN INDEMNIFIED INDIVIDUAL OR ENTITY IN ATTEMPTING TO ENFORCE THIS INDEMNITY.

In its sole discretion, the City shall have the right to approve counsel to be retained by Consultant in fulfilling its obligation to defend and indemnify the City.

Consultant shall retain approved counsel for the City within seven (7) business days after receiving written notice from the City that it is invoking its right to indemnification under this Contract. If Consultant does not retain counsel for the City within the required time, then the City shall have the right to retain counsel and the Consultant shall pay these attorneys' fees and expenses. The City retains the right to provide and pay for any or all costs of defending indemnified items, but it shall not be required to do so.

XIII.

Independent Contractor

Consultant's status shall be that of an Independent Contractor and not an agent, servant, employee or representative of City in the performance of this Contract. No term or provision of or act of Consultant or City under this Contract shall be construed as changing that status. Consultant will have exclusive control of and the exclusive right to control the details of the work performed hereunder, and shall be liable for the acts and omissions of its officers, agents, employees, contractors, subcontractors and engineers and the doctrine of respondeat superior shall not apply as between City and Consultant, its officers, agents, employees, contractors, subcontractors and engineers, and nothing herein shall be construed as creating a partnership or joint enterprise between City and Consultant.

XIV.

Default

If at any time during the term of this Contract, Consultant shall fail to commence the work in accordance with the provisions of this Contract or fail to diligently provide services in an efficient, timely and careful manner and in strict accordance with the provisions of this Contract or fail to use an adequate number or quality of personnel to complete the work or fail to perform any of its obligations under this Contract, then City shall have the right, if Consultant shall not cure any such default after thirty (30) days written notice thereof, to terminate this Contract. Any such act by City shall not be deemed a waiver of any other right or remedy of City. If after exercising any such remedy due to Consultant's nonperformance under this Contract, the cost to City to complete the work to be performed under this Contract is in excess of that part of the Contract sum which has not theretofore been paid to Consultant hereunder, Consultant shall be liable for and shall reimburse City for such excess. Consultant's liability under this provision shall be limited to the total dollar amount of this Contract.

City's remedies for Consultant's default or breach under this Contract shall be limited to one or more of the following remedies which may be exercised separately or in combination at City's sole exclusive choice:

- (a) Specific performance of the Contract;
- (b) Re-performance of this Contract at no extra charge to City; or,
- (c) Monetary damages in an amount not to exceed the greater of:
 - (1) The amount of any applicable insurance coverage Consultant is required to purchase and maintain under this Contract plus any deductible amount to be paid by Consultant in conjunction with said coverage regardless of whether Consultant has actually purchased and maintained said coverage; or,
 - (2) The total dollar amount of this Contract.

The terms of Sections XII entitled Indemnification, and XVII entitled Confidential Information shall survive termination of this Contract.

XV. Changes

City may, from time to time, require changes in the scope of services to be performed under this Contract. Such changes as are mutually agreed upon by and between City and Consultant shall be incorporated by written modification to this Contract.

XVI. Conflict of Interest

Consultant covenants and agrees that Consultant and its associates and employees will have no interest, and will acquire no interest, either direct or indirect, which will conflict in any manner with the performance of the services called for under this Contract. All activities, investigations and other efforts made by Consultant pursuant to this Contract will be conducted by employees, associates or subcontractors of Consultant.

XVII. Confidential Information

Consultant hereby acknowledges and agrees that its representatives may have access to or otherwise receive information during the furtherance of its obligations in accordance with this Contract, which is of a confidential, non-public or proprietary nature. Consultant shall treat any such information received in full confidence and will

not disclose or appropriate such Confidential Information for its own use or the use of any third party at any time during or subsequent to this Contract. As used herein, "Confidential Information" means all oral and written information concerning City of Carrollton, its affiliates and subsidiaries, and all oral and written information concerning City or its activities, that is of a non-public, proprietary or confidential nature including, without limitation, information pertaining to customer lists, services, methods, processes and operating procedures, together with all analyses, compilation, studies or other documents, whether prepared by Consultant or others, which contain or otherwise reflect such information. The term "Confidential Information" shall not include such materials that are or become generally available to the public other than as a result of disclosure of Consultant, or are required to be disclosed by a governmental authority.

XVIII.

Mailing Address

All notices and communications under this Contract to be mailed to City shall be sent to the address of City's agent as follows, unless and until Consultant is otherwise notified:

Michael G. McKay, P.E.
City of Carrollton
Post Office Box 10535
Carrollton, Texas 75011.

Notices and communications to be mailed or delivered to Consultant shall be sent to the address of Consultant as follows, unless and until City is otherwise notified:

Robert Armstrong, P.E.
Huitt-Zollars, Inc.
1717 McKinney Ave., Suite 1400
Dallas, TX 75202

Any notices and communications required to be given in writing by one party to the other shall be considered as having been given to the addressee on the date the notice or communication is posted, faxed or personally delivered by the sending party.

XIX.

Applicable Law

The Contract is entered into subject to the Carrollton City Charter and ordinances of City, as same may be amended from time to time, and is subject to and is to be construed, governed and enforced under all applicable State of Texas and federal laws. Consultant will make any and all reports required per federal, state or local law including, but not limited to, proper reporting to the Internal Revenue Service, as required in accordance with Consultant's income. Situs of this Contract is agreed to be Dallas County, Texas, for all purposes, including performance and execution.

XX.
Severability

If any of the terms, provisions, covenants, conditions or any other part of this Contract are for any reason held to be invalid, void or unenforceable, the remainder of the terms, provisions, covenants, conditions or any other part of this Contract shall remain in full force and effect and shall in no way be affected, impaired or invalidated.

XXI.
Remedies

No right or remedy granted herein or reserved to the parties is exclusive of any other right or remedy herein by law or equity provided or permitted; but each shall be cumulative of every other right or remedy given hereunder. No covenant or condition of this Contract may be waived without written consent of the parties. Forbearance or indulgence by either party shall not constitute a waiver of any covenant or condition to be performed pursuant to this Contract.

XXII.
Entire Agreement

This Contract embodies the complete agreement of the parties hereto, superseding all oral or written previous and contemporaneous agreements between the parties relating to matters herein, and except as otherwise provided herein cannot be modified without written agreement of the parties.

XXIII.
Non-Waiver

It is further agreed that one (1) or more instances of forbearance by City in the exercise of its rights herein shall in no way constitute a waiver thereof.

XXIV.
Headings

The headings of this Contract are for the convenience of reference only and shall not affect any of the terms and conditions hereof in any manner.

XXV.
Venue

The parties to this Contract agree and covenant that this Contract will be enforceable in Carrollton, Texas; and that if legal action is necessary to enforce this Contract, exclusive venue will lie in Dallas County, Texas.

XXVI.
No Third Party Beneficiary

For purposes of this Contract, including its intended operation and effect, the parties (City and Consultant) specifically agree and contract that: (1) the Contract only affects matters/disputes between the parties to this Contract, and is in no way intended by the parties to benefit or otherwise affect any third person or entity notwithstanding the fact that such third person or entity may be in contractual relationship with City or Consultant or both; and (2) the terms of this Contract are not intended to release, either by contract or operation of law, any third person or entity from obligations owing by them to either City or Consultant.

IN WITNESS WHEREOF, the parties hereto have set their hands by their representatives duly authorized on the day and year first written above.

CITY OF CARROLLTON

By: _____
Marc Guy
Assistant City Manager

Date Signed: _____

ATTEST:

Laurie Garber
City Secretary

APPROVED AS TO FORM:

APPROVED AS TO CONTENT

Meredith A. Ladd
City Attorney

Cesar J. Molina, Jr., P.E.
Director of Engineering

HUITT-ZOLLARS, Inc.
(Consultant's Name)

By: William E. Kallas
Name: WILLIAM E. KALLAS
Title: VICE PRESIDENT
Date Signed: 4-5-16

THE STATE OF TEXAS §
COUNTY OF DALLAS §

This instrument was acknowledged before me on the 5th day of April, 2016, by William E. Kallas in his capacity as Vice President of Huitt-Zollars, Inc., a Texas Corporation, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed the same on behalf of and as the act of executing this document.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, THIS THE 5th DAY OF April, 2016.



Lisa D. Eyster
Notary Public Dallas County, Texas
My commission expires 3-6-20

Attachment "A"

Scope of Work

1. This is an exhibit attached to, made a part of and incorporated by reference into the Agreement made on April 5th, 2016 between CITY and CONSULTANT providing for professional engineering services.
2. CONSULTANT shall perform the following BASIC SERVICES:
 - A. Project Management**
 1. Prepare a project work plan for project staff, describing task assignments, schedule, budget, design criteria, and quality management plan.
 2. Prepare monthly progress reports and invoices.
 3. Provide subconsultant management
 4. Provide Quality Control reviews
 - B. Data Review and Verification**
 1. Perform a field reconnaissance of the project site. HZ will photograph and document the existing conditions as necessary to verify previous Manning's 'n' value estimates and document the decisions regarding 'n' values.
 2. Review available utility line information, including sanitary sewer and water as-built plans for lines within the project area and plans/study of the DCRRD lateral weir structure.
 3. Perform a detailed review of previous hydraulic modeling and verify accuracy of the pre-project HEC-RAS model through the study reach as provided to Huitt-Zollars by the City of Carrollton. Initial review indicates that with exception of a few minor revisions, the model appears to represent existing conditions. The HEC-RAS cross-sections appear to match the topographic information that has been provided. The HEC-RAS geometry is geo-referenced and will be exported in shapefile format for use in developing a topographic workmap.
 4. Review & verify previous hydrologic modeling of 1-year event
 - C. Survey**
 1. Topographic Survey - Survey location and ground elevation of geotechnical borings.
 - D. Environmental Permitting**
 1. Alternative Project Concept Planning
Provide professional consulting services to aid in the identification and development of project alternatives that have the ability to meet two conditions – 1.) aid in the stabilization of Indian Creek in this reach, and 2.) would be authorized by the USACE under one or more NWPs. Through preproposal meetings, there are several ideas for different project alternatives that could be viable solutions to both of these conditions. Meet with City of Carrollton to provide regulatory framework for project solutions that would utilize one or more NWPs. Once the alternatives have been reviewed by the

design team, prepare a summary of each project alternative based on a Section 404 regulatory perspective. The letter report will:

- Summarize the project alternative in relation to how it will provide a solution to the problems;
- Quantifiable impacts to waters of the United States;
- Summarize appropriate NWP(s) for the project alternative; and
- Potential regulatory challenges.

2. Pre-Application Meeting with USACE

Prepare for and conduct a pre-application meeting with the USACE to present the current design report and project alternatives to the USACE. The environmental permitting letter report from Task D.1 will be submitted to the USACE with a meeting request. The intent of the meeting is to educate the USACE about the project and obtain their support on one of the design alternatives. The desired USACE support includes a verbal agreement as to the project could be authorized under a NWP and if not, specific design changes that would garner a NWP verification. Upon the completion of this meeting, we will prepare and submit meeting minutes to all parties.

3. Project Design and Nationwide Permit Pre-Construction Notification

Once the USACE has provided initial buy-in for one or more particular design alternatives, a project alternative has been selected for final design, we will prepare a Pre-Construction Notification for the desired NWP and will submit to the USACE for processing.

Utilizing the USACE standard form for the appropriate NWP PCN submittal, we will assemble and submit the following to the USACE:

- Description of the proposed action that addresses the project constraints and channel deterioration;
- Description of the site, including a delineation of the waters of the United States (from BGE);
- Functional assessment – TxRAM version 1.0 and 2.0 of both the existing and proposed projects;
- Representative photographs; and
- Supporting illustrations;
- Alternatives analysis to the proposed action that do not impact waters of the United States;
- Description of the design alternatives (attach the environmental project alternatives report);
- Description of the project's avoidance and minimization efforts;
- Quantitative and qualitative description of the unavoidable impacts to the waters of the United States; and
- Depending upon selected project alternative, there may be some permittee responsible mitigation, in the form of minimization, which will be incorporated

into the project design. We will detail the minimization efforts for the project to aid in a NWP authorization

E. Geotechnical Investigation

1. Perform 4 borings to 10' below the adjacent stream channel flowline at accessible locations along the existing creek.
2. Perform 2 additional borings, 1 each near the existing sanitary sewer crossings, to a depth of 20 feet, or 2 feet into bedrock if encountered first.
3. Prepare a geotechnical report to include:
 - a. Soil boring logs with field and laboratory data
 - b. Site and boring location plan
 - c. Description of exploration and testing procedures
 - d. Description of findings
 - e. Recommended geotechnical design requirements for channel slope stability
 - f. Recommended foundation design requirements for aerial crossings

F. Conceptual Design (30% milestone)

1. Modify previous pre-project model based upon results of Task B to create the baseline pre-project model to be used for this project.
2. Review pre-project model hydraulic parameters and assess velocities and channel shear stress at key locations including:
 - a. The failed concrete lining near the lateral weir
 - b. Typical and extreme bend locations
 - c. Typical tangent sections, and
 - d. Utility crossing locations
3. Assess the need for, and location of, potential stream profile grade control structures.
4. Develop and assess eastern bank design alternatives based upon a review of geotechnical channel stability and channel permitting constraints. Develop typical sections for the eastern bank.
5. Establish preferred low-flow stable channel width.
6. Assess western bank and floodplain design alternatives based on geotechnical stability analysis, channel permitting constraints, and potential floodplain alteration discussions with DCRRD. Develop typical sections for the western bank and floodplain.
7. Prepare assessment of armoring necessary to stabilize eastern toe of slope using normal depth analysis of typical sections.
8. Prepare assessment of protection / armoring necessary to stabilize channel bank slopes
9. Prepare typical sections for the western bank and floodplain.
10. Prepare up to three alternative concept layout schematics.
11. Prepare a preliminary Opinion of Probable Construction Costs (OPCC) for each alternative.
12. Prepare a list of advantages and disadvantages for each alternative and make a recommendation for a preferred alternative.
13. Conduct a meeting with the City of Carrollton and IES to discuss the alternatives.
14. Revise alternatives as needed and prepare a Preliminary Engineering Report.

15. Meet with USACE permitting staff to discuss project alternatives and Nationwide 404 permitting approach.

G. Preliminary Design (65% Milestone)

1. Prepare preliminary Cover Sheet
2. Prepare preliminary alignment data sheet
3. Prepare preliminary grading plans for selected alternative
4. Prepare post-project DTM and hydraulic model for selected alternative. Modify design as necessary to achieve a zero-rise for the 100-year profile.
5. Prepare preliminary plan and profile sheets (1" = 40' horizontal)
6. Prepare preliminary channel detail sheets
7. Prepare preliminary construction access plan
8. Prepare outline of anticipated special provisions
9. Prepare preliminary sanitary sewer revision / protection details
10. Show temporary and permanent easements as needed
11. Update preliminary OPCC
12. Field check preliminary plans for accuracy and compliance
13. Submit plans (2 sets), with cross-sections, and revised OPCC for review.

H. Pre-final Design (95% Milestone)

1. Respond to all City review comments.
2. Revise typical sections, plan, and profile to accommodate review comments
3. Resolve utility conflicts
4. Revise alignment data sheet
5. Finalize special detail sheets
6. Finalize construction access plan
7. Prepare quantity sheet
8. Prepare draft special provisions
9. Field check plans for accuracy and compliance
10. Prepare a Landscape Plan and tree mitigation plan
11. Prepare SWPPP Erosion Control Sheet w/ all applicable BMP
12. Finalize cross sections
13. Prepare and submit final hydraulic report, including 2, 10, 50, 100, and 500-year flood profiles results and floodplain mapping for the 100-year, floodway, and 500-year floodplains.
14. Submit plans (2 sets) for review

I. Phase IV Final Design (100% Milestone)

1. Respond to all previous comments.
2. Finalize complete quantity summary sheet for all construction items
3. Prepare final OPCC
4. Submit 1 set of sealed final plans with cross-sections & special provisions.

3. SPECIAL SERVICES:

A. Coordination with USACE for NWP Verification

After the NWP is submitted, we will coordinate with the USACE regarding their comments and concerns. This may include slight revisions to the project design. Coordination with the USACE will be billed on a time and materials basis in accordance with the attached IES and Huitt-Zollars, Inc. rate sheets. The estimated budget for this task is \$4,400 and will not be exceeded without prior written authorization from CITY.

4. **CITY'S RESPONSIBILITY.** The CITY will provide information regarding objectives and requirements for the Project. CITY to furnish copies of existing plans, plats and property ownership information in concerned areas at no cost to the CONSULTANT.

The CITY will designate a single representative to act in its behalf, with respect to the Project who shall examine documents submitted by the CONSULTANT and, to the extent allowed by law, shall render decisions pertaining thereto promptly to avoid unreasonable delay in the progress of the CONSULTANT'S services.

- A. All of the City's plat, easement and construction plan files will be made available for use. City will provide copies at no cost. If easement information is not available within the City, the City will need to obtain that information from Dallas County.
- B. Access to all City manholes and clean-outs, access to all City right-of-way and easements. If manhole lids are bolted down the Engineer will contact the City's Utility Operation Department and schedule a time when they can meet with the Engineer and remove the manhole lid.
- C. If public meetings are necessary the City will take the steps required to notify the residents.
- D. Storm drainage ordinance, manuals and intensity curves.
- E. Current standard construction details.
- F. City will distribute construction documents.
- G. Obtain Right of Entry from individual property owners for surveying.

END OF ATTACHMENT A

Attachment "B"

COMPENSATION

1. This is an exhibit attached to, made a part of and incorporated by reference into the Agreement made on April 5th, 2016 between CITY and CONSULTANT providing for professional engineering services.
2. CONSULTANT will accomplish the work outlined in the tasks presented in Exhibit "A" if this Agreement as shown below:

A. Basic Services: Compensation to Huitt-Zollars, Inc., for the Basic Services described in Exhibit "A" shall be as follows:

| | | |
|----|--------------------------------|-------------------------|
| A. | Project Management | \$ 9,700.00 (Lump sum) |
| B. | Data Collection & Verification | \$ 8,600.00 (Lump sum) |
| C. | Surveying | \$ 1,300.00 (Lump sum) |
| D. | Environmental Permitting | \$ 16,275.00 (Lump sum) |
| E. | Geotechnical Investigation | \$ 11,900.00 (Lump Sum) |
| F. | Concept Design | \$ 33,800.00 (Lump Sum) |
| G. | Preliminary Design | \$ 33,480.00 (Lump Sum) |
| H. | Pre-Final Design | \$ 46,960.00 (Lump Sum) |
| I. | Final Design | \$ 8,160.00 (Lump Sum) |

Total \$ 170,175.00

B. Special Services: Compensation to Huitt-Zollars, Inc., for the Special Services described in Exhibit "A" shall be as follows:

A. Coordination with USACE \$ 4,400.00 (Time & Materials + 5%)

Total Special Services Fee: \$ 4,400.00

If Huitt-Zollars, Inc., determines that the fee will exceed the estimate, Huitt-Zollars, Inc., will notify the OWNER for authorization to proceed.

3. The CONSULTANT'S Fee for Basic and Special Services shall provide compensation for all design work, drafting work, printing of review documents for the CITY, computations and all other work required for the design of this Project.
4. CONSULTANT will invoice the CITY for the value of partially completed services, according to the services accomplished each month on a proportional basis of the overall project.
5. All other services will be considered as additional services, performed at the request of the

CITY and billed as defined in item six (6) of this Agreement.

6. Invoices will be submitted by CONSULTANT to the CITY monthly for services performed and expenses incurred pursuant to this Agreement during the prior month. Payments on account for basic services shall be made monthly within thirty (30) days of invoice. All invoices will be accompanied by a status report on all completed work. Any additional services agreed to in writing will be invoiced per the attached IES and Huitt-Zollars, Inc. rate sheets.

END OF ATTACHMENT B



DALLAS

2016 HOURLY RATE SHEET

Engineering/Architecture

| | |
|-----------------------------|-----------|
| Principal-In-Charge | \$ 255.00 |
| QA Manager | \$240.00 |
| Sr. Project Manager | \$240.00 |
| Project Manager | \$195.00 |
| Sr. Civil Engineer | \$205.00 |
| Sr. Structural Engineer | \$205.00 |
| Sr. Mechanical Engineer | \$205.00 |
| Sr. Electrical Engineer | \$205.00 |
| Civil Engineer | \$160.00 |
| Structural Engineer | \$160.00 |
| Mechanical Engineer | \$165.00 |
| Electrical Engineer | \$165.00 |
| Plumbing Engineer | \$165.00 |
| Engineer Intern | \$110.00 |
| Sr. Landscape Architect | \$155.00 |
| Landscape Architect | \$110.00 |
| Landscape Architect Intern | \$ 90.00 |
| Sr. Planner | \$180.00 |
| Planner | \$160.00 |
| Planner Intern | \$115.00 |
| Sustainability Professional | \$145.00 |
| Sr. Designer | \$150.00 |
| Designer | \$130.00 |
| Sr. CADD Technician | \$125.00 |
| CADD Technician | \$ 95.00 |

Survey

| | |
|-----------------------|-----------|
| Survey Manager | \$ 185.00 |
| Sr. Project Surveyor | \$ 145.00 |
| Project Surveyor | \$ 140.00 |
| Field Coordinator | \$ 125.00 |
| Sr. Survey Technician | \$ 105.00 |
| Survey Technician | \$ 85.00 |

Survey Crews

| | |
|----------------------|-----------|
| 1-Person Survey Crew | \$ 95.00 |
| 2-Person Survey Crew | \$ 140.00 |
| 3-Person Survey Crew | \$ 165.00 |

Construction

| | |
|---------------------------------|-----------|
| Construction Manager | \$ 190.00 |
| Resident Engineer | \$ 150.00 |
| Resident Project Representative | \$ 135.00 |

Administrative

| | |
|---------------------|----------|
| Sr. Project Support | \$ 95.00 |
| Project Support | \$ 75.00 |

Reimbursable Expenses

| | |
|--------------------|------------------------------------|
| Consultants | Cost + 10% |
| Other Direct Costs | Cost + 10% |
| Mileage | IRS Standard Business Mileage Rate |

Note: New hourly rates will become effective each February 1st to reflect cost of living salary adjustments.



COMMERCIAL
Personnel and Other Direct Costs Rates Sheets:

| <u>Personnel:</u> | <u>Rate:</u> |
|--------------------------------------------|---------------------|
| Executive | \$250.00/hr |
| Wetland Biologist, IV | \$151.00/hr |
| Wetland Biologist, III | \$110.00/hr |
| Wetland Biologist, II | \$95.00/hr |
| Wetland Biologist, I | \$65.00/hr |
| Permit Specialist, IV | \$151.00/hr |
| Permit Specialist, III | \$110.00/hr |
| Permit Specialist, II | \$95.00/hr |
| Permit Specialist, I | \$70.00/hr |
| Environmental Specialist, IV | \$200.00/hr |
| Environmental Specialist, III | \$110.00/hr |
| Environmental Specialist, II | \$95.00/hr |
| Environmental Specialist, I | \$68.00/hr |
| NEPA Specialist, IV | \$200.00/hr |
| NEPA Specialist, III | \$110.00/hr |
| NEPA Specialist, II | \$95.00/hr |
| NEPA Specialist, I | \$65.00/hr |
| Principal Investigator | \$85.00/hr |
| Project Archeologist | \$55.00/hr |
| Cultural Resources, Tech | \$45.00/hr |
| GIS Specialist, II | \$95.00/hr |
| GIS Specialist, I | \$55.00/hr |
| Technical Writer | \$60.00/hr |
| <u>Equipment and Other Costs:</u> | <u>Rate:</u> |
| Vehicle Mileage | Approved IRS rate |
| GPS – Geo-Explorer XT (Sub-Meter Accuracy) | \$100.00/day |
| ATV | \$75.00/day |
| Tolls | \$1.00/each |
| Camera, Digital | \$25.00/day |

Any other costs will be billed at direct cost.

Effective 01 April 2014

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 McKinney, Texas 75069 | www.intenvsol.com

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