

**December 16, 2014**

**To: Mayor Bemrich and City Council**

**From: David Fierke, City Manager**

**Subject: East Region Storm Sewer Project –  
Phases 1-4, Supplemental Agreement #3 to Engineering Contract**



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**ACTION: For vote Monday, December 22, 2014**

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### **Brief History**

On May 14<sup>th</sup>, 2012, City Council passed a resolution accepting the method of selection to choose an Engineering Firm to perform preliminary design on the East Region Storm Sewer Project – Phases 1-3. The Engineering Department solicited RFQ's/RFP's from 7 Iowa firms and received 4 submittals from Bolton & Menk, HR Green, McClure, and Snyder & Associates. The qualifications for each firm were scored by a selection committee and based on their recommendation, City Council directed staff to prepare a contract with Snyder & Associates, which was approved on June 25<sup>th</sup>, 2012. The original contract includes preliminary engineering, design, administrative work necessary to seek funding and determine scope of the project, developing 30% plans, and communication with the public and neighborhood businesses.

Amendment #1 was the first of two (2) planned amendments to Snyder & Associates' original contract. Amendment #1 bridges the gap between preliminary concepts and bidding the projects, generally including final design and plans, right-of-way services (upon written authorization from City), survey, funding applications, and bidding services.

Amendment #2 was approved by Council on June 10, 2013. The original contract and Amendments 1 and 2 encompass the following work:

- Preliminary Design & Plans for Phases 1, 2, and 3.
- Final Design and Plans for Phases 1 and 2.
- Bid Letting Administration for Phases 1 and 2.
- Environmental Services.
- Construction Administration & Observation for Phases 1 and 2.

### **Analysis of Issue**

The following is an updated description of each Phase (1 – 4):

- Phase 1 – Roadway, storm sewers, storm water detention, and pump station improvements near 1<sup>st</sup> Ave. S. & S. 23<sup>rd</sup> St.
- Phase 1B – Roadway and storm sewer improvements on 1<sup>st</sup> Ave. S. at 23<sup>rd</sup> St. and 200' to the east.

- Phase 1C – Storm water detention basin south of 8<sup>th</sup> Ave. S. (east of Land O'Lakes), pump station, roadway and storm sewer improvements on S. 29<sup>th</sup> St. to the north of 8<sup>th</sup> Ave. S.
- Phase 2 – Roadway and storm sewer improvements along 1<sup>st</sup> Ave. S. between S. 23<sup>rd</sup> St. and S. 27<sup>th</sup> St. including work north and south of 1<sup>st</sup> Ave. S. on S. 25<sup>th</sup> St.
- Phase 3 – Roadway and storm sewer improvements along 1<sup>st</sup> Ave. S. between S. 27<sup>th</sup> St. and east of S. 29<sup>th</sup> St. and along S. 29<sup>th</sup> St. from 1<sup>st</sup> Ave. S. to 7<sup>th</sup> Ave. S.
- Phase 4 - Storm sewer improvements along S. 25<sup>th</sup> St. from south of 5<sup>th</sup> Ave. S. to 8<sup>th</sup> Ave. S. and then to the Phase 1C detention basin.

Amendment #3 includes all preliminary design, final design, bid letting, environmental services, and construction administration and observation of Phases 1, 2, and 3.

The Amendment also includes fees for a preliminary drainage study associated with the east end of downtown and including the 1<sup>st</sup> Ave. S. and 12<sup>th</sup> St. intersection. The study needs to be completed now to ensure the design of the drainage improvements in that intersection are adequate.

**Budget Impact**

Funding for this project will be continuously changing as design and planning progress. The engineering fees proposed are consistent with the project costs associated with Phases 1, 2, and 3.

Original Contract.....	\$298,300 (Approved July 23, 2012)
Amendment #1.....	\$550,000 (Approved Dec. 3, 2012)
Amendment #2.....	<u>\$212,900</u>
Subtotal.....	\$1,061,200

<b>Amendment #3.....</b>	<b>\$690,310 (For Approval)</b>
Total.....	\$1,751,510

Total cost of Phases 1, 1B, 1C, 2, and 3 is approximately \$13,500,000. Revenues include:

• Storm Sewer Bond -	\$3,000,000
• TIF -	\$1,000,000
• ICAAP -	\$ 150,000
• TSIP -	\$ 700,000
• STP -	\$1,500,000
• LOST -	\$5,030,000
• JT Borrow -	<u>\$2,200,000</u>
<b>Total =</b>	<b>\$13,580,000</b>

Other funding sources: ICAAP = Iowa Clean Air Attainment Program (IDOT), TSIP = Traffic Safety Improvement Program (IDOT), and STP = Surface Transportation Program (Federal).

**Strategic Plan Impact**

Policy D.4.2: Advanced planning for all infrastructure facilities shall be supported and routinely updated. Facilities benefited by advanced planning shall include, at minimum, schools, health care, residential areas, roads, water, sewer, storm water management, parks, recreation, and greenways.

Policy C.3.5: Pedestrian-oriented streetscape improvements including, but not limited to, sidewalks, street trees, landscaping, street lights, street furniture, trash receptacles, and signage shall be made to create and maintain an environment attractive to investment.

**Impact on Existing Plans**

This project has been included in the Capital Improvement Plan, has leveraged Surface Transportation Funds, and includes all recommendations from the Cross-town Connector Report as well as the Business District Watershed Analysis.

**Staff Conclusions / Recommendations**

It is staff's recommendation to approve Amendment #3 with Snyder & Associates for \$690,310.

**Alternatives**

Staff will also be working with Snyder & Associates to find efficiencies and ideas to reduce required design and planning time. The contract is structured as hourly with a maximum fixed fee, which means the City pays actual expenses up to the amended amount.

Amendment #3 is necessary to remain on schedule for 2015 and 2016.

**Implementation and Accountability**

The Engineering Department will be responsible for this project.

Signed



\_\_\_\_\_  
Chad W. Schaeffer, P.E.  
City Engineer

Approved



\_\_\_\_\_  
David Fierke  
City Manager

**AMENDMENT  
TO  
STANDARD PROFESSIONAL SERVICES AGREEMENT  
BY AND BETWEEN  
CITY OF FORT DODGE, IOWA and SNYDER & ASSOCIATES, INC.  
DATED DECEMBER 3, 2012,  
CONCERNING THE PROJECT IDENTIFIED AS:  
EAST REGION STORM SEWER PROJECT PHASES 1, 2, AND 3**

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NOW ON THIS \_\_\_\_\_ day of December, 2014, the undersigned parties do hereby agree to amend the contract referenced above in the following respects:

1. By modifying the project phases as listed under Section I. GENERAL in EXHIBIT "A" attached to this Amendment.
2. By including the Preliminary and Final Design Services and Construction Services for revised Phases 1, 1B, 1C, 2, and 3, however, the Final Design and Construction Services for revised Phase 4 are not to be completed at this time, but may be added at a later date.
3. By including the addition of a detailed storm sewer analysis for the watershed currently draining through the intersection of 1<sup>st</sup> Avenue S. and S. 12<sup>th</sup> Street, thus outletting to the Des Moines River near Kenyon Road.
4. By reinstating Construction Staking Services listed under section XII., Subsection B of EXHIBIT "A" attached to said Agreement dated December 3, 2012 for Phase 1B, 1C, 2, and 3 as modified under Section I. GENERAL in EXHIBIT "A" attached to this Amendment.
5. Preliminary and Final Design Services and Construction Services for Phase 4 are not a part of this project and are not made a part of this Agreement, as amended.
6. By further modifying and supplementing EXHIBIT "A" attached to said Agreement dated December 3, 2012, in accordance with EXHIBIT "A" SUPPLEMENTAL SCOPE OF SERVICES AGREEMENT #3, attached hereto and by this reference made a part hereof, anything to the contrary notwithstanding. The Project shall hereafter be referenced and identified as: EAST REGION STORM SEWER PROJECT REVISED PHASES 1, 1B, 1C, 2, 3, AND 4.

**CITY OF FORT DODGE, IOWA**

By: \_\_\_\_\_

Title: \_\_\_\_\_

**SNYDER & ASSOCIATES, INC.**

By: Mark Lund

Title: Vice President

## **EXHIBIT "A"**

### **SUPPLEMENTAL AGREEMENT #3 SCOPE OF SERVICES EAST REGION STORM SEWER PROJECT REVISED PHASES 1, 1B, 1C, 2, 3, AND 4**

#### **PRELIMINARY AND FINAL DESIGN, ENVIRONMENTAL SERVICES, AND CONSTRUCTION SERVICES FOR REVISED PHASES 1, 1B, 1C, 2, 3, AND 4**

#### **I. GENERAL**

This Scope of Services is for supplemental services to the original contract to include preliminary and final design of a storm water pump station, environmental services, and construction services for the construction of roadway and storm sewer improvements for revised Phases 1, 2, and 3 of the proposed project. The supplemental services also include topographic survey and construction services for Phases 1 through 3 of the proposed project. The project will be developed for construction in four phases.

PHASE 1 – Construction of storm sewer, regional storm water detention basin, and storm water pump station north of 1<sup>st</sup> Avenue S. and west of S. 23<sup>rd</sup> Street.

PHASE 1B – Reconstruction of the roadway intersection and storm sewer at 1<sup>st</sup> Avenue S. and S. 23<sup>rd</sup> Street, including storm sewer from S. 25<sup>th</sup> Street west along the north property line of Kemna Auto to the storm water detention basin in Phase 1.

PHASE 1C – Construction of a regional storm water detention basin and storm water pump station south of 8<sup>th</sup> Avenue S. near S. 29<sup>th</sup> Street. Construction of storm sewer along 7<sup>th</sup> Avenue S. from S. 29<sup>th</sup> Street to 320' east of S. 29<sup>th</sup> Street, and along S. 29<sup>th</sup> Street from 250' north of 7<sup>th</sup> Avenue S. south to the proposed storm water detention basin south of 8<sup>th</sup> Avenue S., and from 8<sup>th</sup> Avenue S. 400' east of S. 25<sup>th</sup> Street south and east to the proposed storm water detention basin.

PHASE 2 – Construction of roadway and storm sewer improvements along 1<sup>st</sup> Avenue S. from 200' east of S. 23<sup>rd</sup> Street to S. 27<sup>th</sup> Street and along S. 25<sup>th</sup> Street from 400' north of 1<sup>st</sup> Avenue S. to 850' south of 1<sup>st</sup> Avenue S.

PHASE 3 – Construction of roadway and storm sewer improvements along 1<sup>st</sup> Avenue S. from S. 27<sup>th</sup> Street to 400' east of S. 29<sup>th</sup> Street and along S. 29<sup>th</sup> Street from 325' north of 1<sup>st</sup> Avenue S. to 425' north of the intersection of S. 29<sup>th</sup> Street and 5<sup>th</sup> Avenue S. Work includes construction of storm sewer improvements along S. 29<sup>th</sup> Street from the south limit of roadway reconstruction south to 250' north of 7<sup>th</sup> Avenue S.

PHASE 4 – Construction of roadway and storm sewer improvements along S. 25<sup>th</sup> Street from 850' south of 1<sup>st</sup> Avenue S. to 5<sup>th</sup> Avenue S. (Final Design and subsequent Professional Services not a part of Supplemental Agreement #3) Work includes construction of storm sewer improvements along S. 25<sup>th</sup> Street and 7<sup>th</sup> Avenue S. from 5<sup>th</sup> Avenue S. to the storm water detention basin constructed in Phase 1C.

EXPANDED DRAINAGE STUDY – Hydrologic and hydraulic analysis for the watershed that drains through the intersection of 1<sup>st</sup> Avenue S. and S. 12<sup>th</sup> Street, ultimately outletting to the Des Moines River near Kenyon Road.

Coordination with other consultants working on adjacent projects may be required for consistency of information being provided to contractors, as well as coordination of staging to limit street and driveway closures and reduce inconveniences for the public.

## **II. PHASE 1C STORM WATER PUMP STATION PRELIMINARY DESIGN AND PLANS**

The PROFESSIONAL will prepare preliminary design and plan documents for the Phase 1C storm water pump station. The preliminary design and plans for the storm water pump station will address significant project features such as alignment and grade of the inlet storm sewer and out letting force main pipe, pump housing structure dimensions, preliminary staging, accommodation of utilities, pump station access, detention basin grading and outlet structures, other design issues that would affect the limits of construction, and the right of way and easement needs for the project. Meetings will be held with the CLIENT to review the design. The plans will be arranged so that all right-of-way needs will be highlighted and dimensioned for a clear understanding of their proposed locations.

## **III. PHASE 1C STORM WATER PUMP STATION FINAL DESIGN AND PLANS**

The PROFESSIONAL shall prepare final plans and contract documents for construction of the storm water pump station for the Phase 1C improvements. Phase 1C will be bid in accordance with the CLIENT's Bid Letting Process. Plan sets will include construction details, layout information, tabulations, and quantities. Production will include submittal of preliminary plans, check plans, final plans, and special provisions for review and approval by the CLIENT.

All plans will be created on bond paper, with an 11" x 17" sheet size. Final Plans will be certified by a Licensed Professional Engineer, licensed in the State of Iowa.

The PROFESSIONAL shall complete applications and submit permits required for construction of the improvements.

## **IV. PHASE 3 ROADWAY AND STORM SEWER FINAL DESIGN AND PLANS**

The PROFESSIONAL shall prepare final plans and contract documents for construction of the storm water pump station for the Phase 3 improvements. Phase 3 will be bid in accordance with the Iowa DOT's Bid Letting Process. Plan sets will include construction details, layout information, tabulations, and quantities. Production will include submittal of preliminary plans, check plans, final plans, and special provisions for review and approval by the CLIENT.

All plans will be created on bond paper, with an 11" x 17" sheet size. Final Plans will be certified by a Licensed Professional Engineer, licensed in the State of Iowa.

The PROFESSIONAL shall complete applications and submit permits required for construction of the improvements.

## **V. EXPANDED DRAINAGE STUDY**

### **DRAINAGE REVIEW MEETINGS**

Two (2) project meetings are included in this scope. An initial meeting with CLIENT staff will be held to review project needs and parameters in the development of the overall scope of the drainage study and improvement plan. A final meeting will be held with the CLIENT to review the stormwater improvements, recommendations, and to determine desired sequencing in the final improvement plan. The final improvement plan will be submitted to the CLIENT one week after this meeting.

### **HYDROLOGIC & HYDRAULIC INVESTIGATION**

The PROFESSIONAL will develop an XPSWMM computer model utilizing Statewide LiDAR data, aerial photography, GIS data provided by the CLIENT, and on-site investigation to determine the following:

1. Subbasin drainage areas.
2. Existing storm sewer performance for the 2-, 5-, 10-, 50-, and 100-year storm events.
3. Pinpoint areas of increased capacity needs based on CLIENT direction for the storm event to be used for storm sewer sizing.
4. Proposed storm sewer improvements to convey stormwater adequately based on design storm directed by the CLIENT in Item 3 of this task.
5. Assess conveyance of the 100-year storm using proposed improvements.

The PROFESSIONAL will outline the required permitting, if any, to satisfy Iowa Department of Natural Resources and U.S. Army Corps of Engineers requirements.

### **ADDITIONAL FIELD SURVEY**

Using analysis and data from previous tasks, the PROFESSIONAL will collect data via field survey for proper hydraulic analysis. This data will be collected to supplement the data that is contained within the GIS data for the study area.

### **FINAL REPORT**

The PROFESSIONAL will summarize the findings of the stormwater study in a final report which will include a sequenced improvement plan. This report will include tables, maps, and other pertinent information outlining the results of the study. The PROFESSIONAL will provide four (4) original copies and one electronic copy of the report.

## **VI. ENVIRONMENTAL SERVICES**

### **PHASE 1C ENVIRONMENTAL SITE ASSESSMENT**

The PROFESSIONAL will complete a Phase 1C Environmental Site Assessment (ESA) for the Phase 1C project site. The Phase 1C ESA will include a review of state and federal environmental record sources and site history, along with a visual inspection of the site to identify any recognized environmental conditions associated with the subject property. Review of environmental record sources shall include information provided by the Environmental Protection Agency Region VII through the Freedom of Information Act. These records include the National Priority List, Comprehensive Environmental Response Compensation and Liability Information System, and Resource Conservation and Recovery Information System. The review shall include a search for any information related to the subject properties and surrounding area. The PROFESSIONAL shall review data provided by the Iowa DNR for any information concerning underground storage tank registration or removal, leaking underground storage tanks, permitted sanitary landfills, hazardous substance disposal sites, RCRIS compliance violators, and emergency response actions. For the site history review, available aerial photographs, topographic maps, fire insurance maps, historic street directories, and chain of title (if available) for the subject properties shall be examined.

The PROFESSIONAL will perform a site reconnaissance at the locations to investigate each building, current uses, and to identify conditions or activities related to the treatment, storage, disposal, or generation of hazardous substances or petroleum products on the subject sites. Interviews not already completed with persons familiar with the use or prior use of the properties shall be included in the assessment.

The PROFESSIONAL will provide to the CLIENT written reports for the Phase 1C Environmental Site Assessment to include discussion on the site history, environmental record source review, geology and hydrogeology, site reconnaissance, interviews, and recommendations. The client will provide landowner information including, names, addresses, and phone numbers.

The Phase 1C Environmental Site Assessments will conform to ASTM Practice E 1527-05 and the All Appropriate Inquiries Act under the Small business Relief and Brownfields Revitalization Act of 2002. A report will be completed within two weeks upon written authorization.

### **SUBSURFACE INVESTIGATION**

The investigation will consist of advancing a continuous soil core to a maximum depth of 40 feet below grade, dependent on groundwater depth, using a hollow stem auger or Geoprobe drill rig at four separate locations (see attached map for approximate boring location) on the provided aerial. Barker Lemar personnel will describe the sediments and measure the concentration of total organic vapor (TOV) at one-foot intervals using a photo ionization detector (PID). One soil sample exhibiting the highest TOV reading from each borehole (four total) shall be placed in clean sampling containers for delivery to an analytical laboratory. If no TOV readings are detected, the soil sample for analysis will be chosen based upon odor, visible staining, and proximity to the saturated and unsaturated zones.

Upon entering the saturated zone, each borehole will be converted to a temporary monitoring well and one groundwater sample will be collected (four total) and submitted to a laboratory for analysis. If an obstruction is encountered while boring that prevents groundwater from being encountered then no groundwater sample will be collected for analysis.

All soil and groundwater samples will be analyzed for Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX), Total Extractable Hydrocarbons (TEH), and Resource Conservation Recovery Act (RCRA) Metals and will be delivered to the laboratory under a chain of custody form. Information pertaining to individual soil and groundwater samples (i.e., sampling dates and times, locations, etc.) collected in the field will be recorded on sample field sheets and identified on chain of custody forms. Sample labels will be affixed to sample containers, identifying sample numbers, dates collected, and requested analyses. All associated field notes, chain of custody forms, and soil boring logs will be checked for accuracy and completeness and documented by the project manager. It will also be the role of the PROFESSIONAL to inspect the data and provide final review and approval to ensure that it meets industry standard sampling requirements. Photo documentation of the property will also be collected and saved in a secure location.

Field personnel will maintain field logbooks to record all pertinent activities associated with sampling activities. Photo documentation of the property will also be collected and saved in a secure location. The Limited Phase 2 ESA Report will include the following detailed sections: Executive Summary, Introduction, Background, Phase 2 Activities, Evaluation and Presentation of Results, Discussion of Findings and Conclusions, and Further Recommendations. The final report will also include appropriate tables, figures and appendices detailing the work completed at the property.

## **WETLAND DELINEATION**

The PROFESSIONAL will provide Wetland Delineations for the above referenced project. The Wetland Delineations will be performed to determine the upper boundaries of wetland area(s) of the proposed improvements. The PROFESSIONAL will review United States Geological Survey topographic maps, National Wetland Inventory maps, Soil Survey of Webster County, Iowa, and aerial photographs as part of a preliminary data search. On-site visits will be performed to gather data pertaining to wetland vegetation, wetland hydrology, and hydric soils. The upper boundary of each wetland shall be surveyed. Field work shall be conducted in accordance with procedures outlined in the U.S. Army Corps of Engineers (USACE) Midwest Supplement. The PROFESSIONAL shall provide copies of the Wetland Delineation Report summarizing the findings of the data searches and the on-site wetland delineations.

The CLIENT will coordinate with the landowners prior to the site visit to ensure access to properties required for field investigation. A report summarizing the findings of the field delineation could be completed within four weeks of written authorization.

## **WETLAND PERMITTING AND MITIGATION PLAN**

The PROFESSIONAL will act as the Authorized Agent throughout the permitting process. The PROFESSIONAL shall design a mitigation plan that complies with USACE Wetland Mitigation Guidelines and IDNR Requirements. The mitigation plan will consist

of a planting and grading plan. A topographic survey will be completed in order to design the grading plan. The permitting and mitigation design does not include the cost for completing archaeological services that may be required by USACE or IDNR. The permitting and mitigation plan does not include the cost of performing additional studies if a regulatory agency requires off-site mitigation.

## **SOIL DELINEATION STUDY**

A tank closure was completed on the site for the Phase 1C detention basin in July and August of 2012. Free product has been observed on the site. A Tier 2 Site Cleanup report (SCR) was completed in March 2013 classifying the site as No Further Action. Based on this report, the free product that remains onsite will be over-excavated during construction. Soil borings will be taken to bracket the petroleum hydrocarbon impact. Barker Lemar personnel will perform the borings in the vicinity of the existing monitoring wells MW-1 through MW-7 to identify the soil to be removed during corrective action activities. Using a continuing sampler, soil will be field screened at 1-foot intervals with a Photo Ionization Gas Detector to determine horizontal and vertical extent of the petroleum impact. Soil samples will be analyzed for BTEX and MtBE by Iowa Method OA-1 (GC/MS) and Total Extractable Hydrocarbons by Iowa Method OA-2.

## **VII. CONSTRUCTION STAKING**

Construction Staking will be provided by the Engineer for construction of the Project. The original stakes set by the surveyor shall be preserved. If in the opinion of the Engineer the original survey stakes or marks have been carelessly or willfully destroyed or disturbed by the Contractor replacement of said stakes will be deemed as re-staking and will be charged back to the Contractor. The original stakes set by the surveyor shall be preserved. If, in the opinion of the Engineer, the original survey stakes or marks have been carelessly or willfully destroyed or disturbed by the Contractor, replacement of said stakes will be deemed as re-staking and will be charged back to the contractor. The Contractor's field representative will be informed of any re-staking as it is requested and approve said work before commencement. Re-staking charges will be invoiced from the Engineer to the Contractor with detailed descriptions weekly to the Contractor for payment.

## **VIII. WORK SCHEDULE**

This project, from design through construction completion, shall be performed by the PROFESSIONAL in accordance with the following schedule:

- A. After acceptance of the Professional Services Contract by the CLIENT, and with any specific modifications in scope described by the CLIENT, the PROFESSIONAL shall design the project and prepare documents as called for in this contract. The final plans and specifications are to be completed based on a schedule for a letting of the Phase 1C and Phase 2 improvements in the Winter of 2014/2015 and Phase 3 in the Winter of 2015/2016.

- B. Upon completion of the project design with any specific modifications described by the CLIENT, the PROFESSIONAL shall assist in the Bidding Phase.
- C. The PROFESSIONAL shall not be responsible for delays in the schedule that are beyond the PROFESSIONAL'S control.

**IX. COMPENSATION AND TERMS OF PAYMENT**

The CLIENT shall pay the ENGINEER in accordance with the terms and conditions of this Agreement.

**A. BASIC SERVICES**

The engineering fee shall be on the basis of a maximum fixed fee on hourly rates and fixed expenses as outlined in the Engineer's Standard Fee Schedule. The current fee schedule is shown in the attached Exhibit "B". Total fees of services shall not exceed the following amounts without approval of the CLIENT.

	TOTAL
Project Administration	\$63,400
Preliminary Survey	\$76,400
Preliminary Design and Plans	\$81,500
Utility Coordination	\$38,900
Hydraulic Analysis	\$34,000
Traffic Analysis and Signals	\$28,000
Landscape Concepting	\$10,000
Public Participation	\$41,900
	<hr style="width: 100%; border: 0.5px solid black;"/> \$374,100

Anytime the ENGINEER anticipates that actual engineering costs will exceed estimated engineering costs, he shall immediately notify the CLIENT, in writing, of such proposed increase and the reasons therefore. The CLIENT shall thereupon review such proposed increase and either accept or reject it.

**B. ADDITIONAL SERVICES**

The engineering fee shall be on the basis of a maximum fixed fee on hourly rates and fixed expenses as outlined in the Engineer's Standard Fee Schedule. The current fee schedule is shown in the attached Exhibit "B". Total fees of services shall not exceed the following amounts without approval of the CLIENT.

	BASE AGREEMENT +SA#1 +SA#2	BASE AGREEMENT +SA#1 +SA#2 +SA#3
	<u>TOTAL</u>	<u>TOTAL</u>
Funding Applications	\$9,100	\$19,100
Right-of-Way Services		
Temp. Easement Plats (40 @ \$450 EA)	\$4,500	\$18,000
Perm. Acquisition Plats (40 @ \$550 EA)	\$16,500	\$22,000
Title Searches (40 @ \$300 EA)	\$9,000	\$12,000
Value Finding Appraisals (18 @ \$2,100 EA)	\$37,800	\$37,800
Before & After Appraisals (2 @ \$3,700 EA)	\$7,400	\$7,400
Review Appraisals (20 @ \$1,100 EA)	\$22,000	\$22,000
Preliminary Design and Plans (Phase 1 through 3)	\$140,100	\$225,100
Hydraulic Analysis (Phasing Impacts)	\$5,000	\$8,000
Final Traffic Signal and Street Lighting Design	\$27,700	\$27,700
Final Design and Plans (Phase 1 through 3)	\$130,400	\$280,400
Geotechnical Investigation	\$10,800	\$22,040
Bidding Phase (Phase 1 through 3)	\$16,600	\$36,600
Preliminary Survey (Phase 1 through 3)	\$16,000	\$31,000
Expanded Drainage Study		
Drainage Review Meetings	\$0	\$3,500
Hydrologic & Hydraulic Investigation	\$0	\$14,200
Field Survey	\$0	\$15,300
Final Report	\$0	\$4,500
Environmental Services		
Phase I Environmental Site Assessment	\$4,000	\$8,000
Subsurface Investigation	\$7,000	\$14,000
Wetland Delineation	\$4,200	\$6,400
Wetland Permitting and Mitigation Plan	\$6,000	\$9,000
Soil Delineation Study	\$0	\$5,570
Construction Administration (Phase 1 through 3)	\$73,600	\$138,600
Construction Staking (Phase 1B through 3)	\$0	\$80,000
Construction Observation (Phase 1 through 3)	\$136,500	\$272,750
Record Drawings	\$2,900	\$4,400
Electrical Design	\$0	\$27,050
Utility Coordination	\$0	\$5,000
	\$687,100	\$1,377,410

**X. METHOD OF PAYMENT**

The ENGINEER shall submit billings for Basic, Construction and Additional services to the CLIENT on a thirty (30) day basis under separate cover and shall be paid by the CLIENT within fourteen (14) days after approval by the City Council. The CLIENT shall pay the ENGINEER a percentage of the total fee for each phase or a cost not to exceed the amount shown in accordance with the following schedule:

**A. BASIC SERVICES**

	TOTAL
Project Administration	\$63,400
Preliminary Survey	\$76,400
Preliminary Design and Plans	\$81,500
Utility Coordination	\$38,900
Hydraulic Analysis	\$34,000
Traffic Analysis and Signals	\$28,000
Landscape Concepting	\$10,000
Public Participation	\$41,900
	\$374,100

**B. ADDITIONAL SERVICES**

	BASE AGREEMENT +SA#1 +SA#2	BASE AGREEMENT +SA#1 +SA#2 +SA#3
	<u>TOTAL</u>	<u>TOTAL</u>
Funding Applications	\$9,100	\$19,100
Right-of-Way Services		
Temp. Easement Plats (40 @ \$450 EA)	\$4,500	\$18,000
Perm. Acquisition Plats (40 @ \$550 EA)	\$16,500	\$22,000
Title Searches (40 @ \$300 EA)	\$9,000	\$12,000
Value Finding Appraisals (18 @ \$2,100 EA)	\$37,800	\$37,800
Before & After Appraisals (2 @ \$3,700 EA)	\$7,400	\$7,400
Review Appraisals (20 @ \$1,100 EA)	\$22,000	\$22,000
Preliminary Design and Plans (Phase 1 through 3)	\$140,100	\$225,100
Hydraulic Analysis (Phasing Impacts)	\$5,000	\$8,000
Final Traffic Signal and Street Lighting Design	\$27,700	\$27,700
Final Design and Plans (Phase 1 through 3)	\$130,400	\$280,400
Geotechnical Investigation	\$10,800	\$22,040
Bidding Phase (Phase 1 through 3)	\$16,600	\$36,600
Preliminary Survey (Phase 1 through 3)	\$16,000	\$31,000
Expanded Drainage Study		
Drainage Review Meetings	\$0	\$3,500
Hydrologic & Hydraulic Investigation	\$0	\$14,200
Field Survey	\$0	\$15,300
Final Report	\$0	\$4,500
Environmental Services		
Phase I Environmental Site Assessment	\$4,000	\$8,000
Subsurface Investigation	\$7,000	\$14,000

<b>Wetland Delineation</b>	\$4,200	\$6,400
<b>Wetland Permitting and Mitigation Plan</b>	\$6,000	\$9,000
<b>Soil Delineation Study</b>	\$0	\$5,570
<b>Construction Administration (Phase 1 through 3)</b>	\$73,600	\$138,600
<b>Construction Staking (Phase 1B through 3)</b>	\$0	\$80,000
<b>Construction Observation (Phase 1 through 3)</b>	\$136,500	\$272,750
<b>Record Drawings</b>	\$2,900	\$4,400
<b>Electrical Design</b>	\$0	\$27,050
<b>Utility Coordination</b>	\$0	\$5,000
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	\$687,100	\$1,377,410

<b>TOTAL CONTRACT AMOUNT</b>	<b>\$1,751,510</b>
<b>ORIGINAL + SUPPLEMENTAL #1 &amp; #2 AMOUNT</b>	<b>\$1,061,200</b>
	<hr/>
<b>TOTAL SUPPLEMENTAL #3</b>	<b>\$690,310</b>

Exhibit B

**SNYDER & ASSOCIATES, INC.  
2014-15  
STANDARD FEE SCHEDULE**

<b>Billing Classification/Level</b>	<b>Billing Rate</b>	
<b>Professional</b>		
<i>Engineer, Landscape Architect, Land Surveyor, Legal, GIS, Environmental Scientist Project Manager, Planner, Right-of-Way Agent, Graphic Designer</i>		
Principal	\$169.00-179.00	/hour
Senior	\$150.00	/hour
VIII	\$141.00	/hour
VII	\$134.00	/hour
VI	\$129.00	/hour
V	\$121.00	/hour
IV	\$110.00	/hour
III	\$99.00	/hour
II	\$92.00	/hour
I	\$79.00	/hour
<b>Technical</b>		
<i>Technicians—CADD, Survey, Construction Observation</i>		
Lead	\$108.00	/hour
Senior	\$104.00	/hour
VIII	\$97.00	/hour
VII	\$89.00	/hour
VI	\$79.00	/hour
V	\$72.00	/hour
IV	\$66.00	/hour
III	\$55.00	/hour
II	\$46.00	/hour
I	\$41.00	/hour
<b>Administrative</b>		
II	\$55.00	/hour
I	\$45.00	/hour
<b>Reimbursables</b>		
Mileage	<i>current IRS standard rate</i>	
Outside Services	<i>As Invoiced</i>	



**SNYDER & ASSOCIATES**  
Engineers and Planners



**CTC Storm Sewer GIS/Survey Needs**  
Cross Town Connector  
Fort Dodge, Iowa

0 375 750 Feet

