

CONTRACT FOR PROFESSIONAL ENGINEERING SERVICES
SE Hulsizer Road Re-Alignment Design
City of Ankeny, Iowa

THIS AGREEMENT is made and entered into this _____ day of _____, 2019, between the City of Ankeny, Iowa, hereinafter referred to as the “Owner”, and Civil Design Advantage hereinafter referred to as the “Consultant”.

WITNESSETH:

WHEREAS the Owner has decided to proceed with the survey and design for roadway improvements associated with the SE Hulsizer Road Re-alignment. This contract will accommodate design services for the segment of roadway as shown in Exhibit B:

SE Hulsizer Road Re-Alignment Design

Full street construction and utility installation of approximately 1165 lineal feet on Re-aligned SE Hulsizer Road from SE Oralabor Road/IA Hwy 160 to existing SE Hulsizer Road. The Consultant shall develop a standalone set of construction drawings for this project.

WHEREAS the Owner desires to employ the Consultant to provide topographic survey and design services in connection with the project; and

WHEREAS the Consultant is willing to perform such survey and engineering work in accordance with the terms hereinafter provided, and represents that it is in compliance with Iowa statutes relating to the registration of Professional Engineers;

NOW THEREFORE;

The parties hereto, for consideration hereinafter set forth, mutually agree as follows;

I. DEFINITIONS

Whenever in this Contract the following terms or pronouns used in their stead occur, they shall have the meaning here given;

Owner – the City of Ankeny, Iowa, or its authorized representative acting as liaison officer for the Owner for the purpose of coordinating and administering the work under the Contract.

Consultant – the firm of Civil Design Advantage, Grimes, Iowa

Iowa DOT – Iowa Department of Transportation

IDNR – Iowa Department of Natural Resources

Corps – the United States Army Corps of Engineers

EPA – the Environmental Protection Agency

EDA – the Economic Development Agency

Project Manager – the principal project manager assigned to the project, and employed by and working directly under the authority of the Consultant.

Project Engineer – the design engineer assigned to the project and employed by the Consultant, working directly under the authority of the Project Manager.

II.

GENERAL

- A. The Owner has decided to proceed with the design of the SE Hulsizer Road Re-alignment. The project is generally north of SE Oralabor Road/IA Hwy 160, extending from the existing SE Oralabor Road/SE Rio Drive intersection to the existing SE Hulsizer Road corridor (roughly 1,165 lineal feet north of SE Oralabor Road). See Exhibit B. This contract does not include any construction related services but can be added by addendum.

A description of the necessary tasks to accomplish the above goals is itemized in Section III, Scope of Services.

- B. The work under this Contract shall at all times be subject to the general supervision and direction of the Owner and shall be subject to the approval of the Owner. Design and construction documents shall conform to the Owner's requirements.
- C. Obligations of the Owner to the Consultant: All existing information, including previous construction plans, record drawings, utility information, previous studies, drainage maps, drainage design support, etc. applicable to the project will be made available to the Consultant without cost.
- D. Submittal of documents: During the progress of the project design, various copies of the design plans and other documents prepared by the Consultant will be required by the Owner. Unless specified elsewhere in this Contract, three (3) copies of each plan set or document shall be provided by the Consultant to the Owner at the submittal.

- E. This Contract shall be subject to the Standard Fee Schedule billing rates as established in Exhibit A and hereby made a part of this Contract.

III.

SCOPE OF SERVICES

- A. General – The Consultant shall provide Basic Design Services and Additional Design Services (if required, See Exhibit H) for the topographic survey and design of the project in accordance with general engineering principles. The work to be performed under this Contract by the Consultant shall consist of the following Scope of Services. Additional engineering services beyond the Contract Scope of Services shall be authorized in writing by the Owner before the Consultant shall proceed. Additional fees shall be based on the hourly rates by employee classification as established in Exhibit A to this Contract.

- B. Basic Engineering Services

Design Phase Services:

Task 1 – Existing Utility Locating Services

The Consultant plans to utilize the services of a sub-consultant for existing utility locating services. Utility locating services shall follow the scope of service as outlined in Exhibit C. Existing utilities will be located in the cross-hatched area as shown within Exhibit C. In addition, pot-holes (4) will be completed at the proposed traffic signal foundation locations prior to check plan turn-in. CDA will coordinate with the locating company and survey the located existing utilities as part of our topographic survey services.

Task 2 – Geotechnical Investigation

The Consultant plans to utilize the services of a sub consultant for the soils investigation and analysis for the project design. Soils investigation shall follow the scope as outlined in Exhibit D. Soils investigation shall be accomplished for the roadway corridor as shown in Exhibit B.

Task 3 – Phase 1 Environmental Site Assessment (ESA)

The Consultant plans to utilize the services of a sub consultant for Phase 1 Environmental Site Assessment (ESA) services for the project. Phase 1 ESA services shall follow the scope of services and cover the project extents as outlined in Exhibit E. Phase 2 ESA or additional environmental review services are not a part of this contract. If needed, an additional service request shall be submitted for Phase 2 ESA services.

Task 4 – Wetlands Services

The Consultant plans to utilize the services of a sub consultant for wetland services for the project design. Wetland services shall follow the scope and project extents as outlined in Exhibit E.

Task 5 – Field Survey

The Consultant shall acquire survey data to support the preliminary and final designs for the project. The field survey shall include the roadway corridors, parking lots, driveways and tie-ins as depicted within Exhibit B. Surface features, break lines, trees greater than 12” in diameter, utility poles and adjacent streets shall be located for the topographic survey. LIDAR (Light Detection and Ranging) contours may be utilized for areas outside of the noted survey limits. Elevations on a 50-foot grid will be acquired and contours drawn to 1-foot contour grid. Utility information will be shown from field locates and mapping. The Consultant shall acquire right-of-way information to support the platting and re-establishment of the existing right-of-way on SE Oralabor Road/IA Hwy 160 and existing SE Hulsizer Road at the roadway tie-in locations.

Task 6 – Existing Utility Information/Coordination

If available, as-built plans for area improvements shall be provided by the City to verify utility locations. CDA plans to coordinate with existing utility providers and will meet with them up to 3 times during the design portion of the project.

Task 7 – Traffic Engineering/Traffic Signal Design

The Consultant plans to utilize the services of a sub-consultant for traffic engineering and traffic signal design services for the project. Traffic engineering and traffic signal design shall follow the proposed scope of service as outlined within Exhibit F.

Task 8 – Right-of-way Services

The Consultant plans to utilize the services of a sub consultant for right-of-way (ROW) services associated with the project. ROW services shall follow the scope as identified in Exhibit G. Plats and legal descriptions to support the right-of-process will be completed by CDA.

Task 9 – Functional Concept Preparation

The Consultant will prepare a concept plan that incorporates information from the traffic engineering work completed for the project. Concept plan will be a detailed 2-D layout that incorporates turn bay lengths, access locations, turning radii and other information deemed important. The goal is to finalize a complete 2-D layout plan prior to moving into 3-D grade design for the construction drawings.

Task 10 – Public Outreach

Once the functional concept is reviewed and approved, the Consultant shall conduct one formal public informational meeting to present the project to the general public, discuss general staging ideas and identify a general project development schedule. Additional time will be made available if specific property owners would like to meet one-on-one to discuss detailed staging or access items/questions.

Task 11 – Construction Drawing Preparation (Preliminary Plans)

The Consultant shall prepare preliminary construction drawings for approximately 1165 lineal feet of roadway extending north from SE Oralabor Road/IA Hwy 160 to the existing SE Hulsizer Road corridor, including the tie-in to the SE Hulsizer Road roadway. Preliminary plans will be based on the approved functional concept plan. The plans shall show proposed storm sewer, new sidewalk/trail (if any), proposed sanitary sewer main/services, proposed water main/services, prelim traffic signal layout and other design details within the construction limits.

The Consultant shall coordinate with the planned subdivision of the undeveloped property adjacent to the roadway corridor for utility services, driveways, etc. Preliminary plans and cost estimate shall be prepared and submitted to the City of Ankeny (and Iowa DOT, if applicable) to support the intended letting schedule for the project.

Task 12 – Construction Drawing Preparation (Check Plans)

Once preliminary plan comments are received from the City and/or the Iowa DOT, the Consultant shall proceed with preparation of check plans.

Utilizing the previously prepared field survey data and traffic engineering input, the Consultant shall prepare construction drawings for the proposed improvements. The consultant shall review the previously prepared geotechnical report and incorporate applicable recommendations into the plans.

The Consultant shall also work closely with the wetlands engineers to determine impacts to delineated wetlands and the course of action to either mitigate or avoid wetlands impacts.

Check plan sheet layout (and approximate sheet count) shall generally consist of the following:

- Title Sheet (1)
- Details and Typical Sections (2)
- Tabulations of Project Quantities and General Notes (1)
- Plan and Profile Sheets w/longitudinal storm sewer (6)
- Survey Reference Information (1)

Right-of-way Sheets (6)
Traffic Control/Staging Sheets (4)
Geometric Staking and Jointing Sheets (4)
Storm Sewer Cross-run Sheets (4)
Plan and Profile Sheets w/ water and sanitary sewer (6)
Striping, Traffic Signal & Permanent Signage Sheets (6)
Grading/Erosion Control Sheets (3)
Sidewalk Plan Sheets (3)
Cross Sections @ 25' intervals (14)

As part of the check plan preparation, the Consultant shall prepare a Storm Water Management Plan (SWMP) to determine storm sewer sizing for the proposed improvements. The consultant shall also prepare IDNR construction permit applications for the proposed public water and public sanitary sewer improvements.

Upon completion of check plans, the Consultant shall submit the plans and cost estimate to the Iowa Department of Transportation and City of Ankeny for review.

The Consultant shall prepare an “initial” Storm Water Pollution Prevention Plan (SWPPP) for the project, submit the Notice of Intent and General Permit #2 to the Iowa DNR. The City shall be responsible for implementation/monitoring.

The Consultant shall continue to coordinate with franchise utility providers along the corridor for utility relocations, if necessary.

Task 13 – Public Street Photometric Plan

The Consultant shall prepare a photometric plan for the new public street alignments. Photometric plan will show location of Mid-Am standard street lights with light levels shown. Photometric plan will be transmitted to Mid-Am so a proposal to install public street lights can be prepared for the City.

Task 14 – Easement/Acquisition Plat Preparation

The Consultant shall prepare acquisition plat(s) for each parcel as necessary to define the necessary right of way for the roadway corridor. We shall also prepare the necessary permanent and temporary easement documents associated with the sanitary sewer, storm sewer and/or water main outside of the platted right of way. This task does not include platting of the undeveloped property adjacent to the roadway corridor.

Task 15 – Construction Drawing Preparation (Final Plans)

Once the Consultant receives check plan comments from the City and the Iowa DOT, we will proceed with final plan preparation.

Final plan sheet layout shall generally consist of the following:

- Title Sheet (1)
- Details and Typical Sections (2)
- Tabulations of Project Quantities and General Notes (1)
- Plan and Profile Sheets w/longitudinal storm sewer (6)
- Survey Reference Information (1)
- Right-of-way Sheets (6)
- Traffic Control/Staging Sheets (4)
- Geometric Staking and Jointing Sheets (4)
- Storm Sewer Cross-run Sheets (4)
- Plan and Profile Sheets w/ water and sanitary sewer (6)
- Striping, Traffic Signal & Permanent Signage Sheets (6)
- Grading/Erosion Control Sheets (3)
- Sidewalk Plan Sheets (3)
- Cross Sections @ 25' intervals (14)

Consultant shall provide 3-D linework/breakline data in digital AutoCAD format for the contractor's use in bidding and machine control grading operations (if applicable) with the understanding CDA will require the contractor to sign an electronic file transfer agreement prior to transmittal.

Task 16 – Front End Contract Documents/Project Manual Preparation

The Consultant shall prepare front end contract documents (project manual) for use in the bidding process. Front end contract documents shall utilize City approved/provided contract, instructions, bond, Ankeny supplementals and any special requirements. Technical specifications shall reference Standard Urban Design Specifications (SUDAS).

Task 17 – Estimated Construction Costs

The Consultant shall prepare a statement of the total estimated construction costs for the project based on the designs developed. Estimated construction costs shall be prepared for the preliminary, check and final design plan turn-ins. The estimates shall be based on engineering judgment and does not represent a guarantee of the actual construction costs.

Task 18 – Bidding Services

The Consultant shall provide services for the public bidding of the proposed improvements. This shall include plan distribution, preparation of a plan holder's list and preparation of any necessary addendums. The Consultant is aware that any plan deposits shall be fully refundable upon return of any plans distributed to contractors.

Task 19 – Bid Letting Services

The Consultant shall attend one public bid letting for the project. Once bids are open, the Consultant will confirm the as-bid prices, prepare a bid tabulation, prepare contract documents and recommend award of contract to the Owner.

IV. TIME OF BEGINNING AND COMPLETION

Work under this contract to be performed by the Consultant for the Owner shall commence immediately upon execution of this Agreement by both the Consultant and the Owner. This fully executed Agreement will authorize the Scope of Services in Section III. The intent of the Owner and the Consultant is to complete the final design of SE Hulsizer Road Re-alignment by Fall 2019, bid project in winter 2019/20 and construct the project during the 2020 construction season.

Following is a general timeline of major tasks anticipated for the project;

Traffic Study & Functional 2-D Concept	April – July 2019
Preliminary Design	August – Sept 2019
Right-of-way & Easement Acquisition	Sept 2019 – Jan 2020
Final Design	Dec 2019 - Jan 2020
Letting	March 2020

Above schedule is intended to be target dates for tasks identified. Consultant (or their sub-consultants) is not responsible/liable for schedule related items outside of their control, including but not limited to access to project site, right-of-way negotiations, unanticipated site conditions, weather, etc.

V. FEES AND PAYMENTS

A. Fees

The Owner shall pay the Consultant for engineering services rendered under this Contract an amount based on the Consultant's labor costs and direct labor cost burden. The Consultant-incurred reimbursable expenses

will be passed through directly to the Owner. A definition of each of the above follows:

1. Labor costs – salary and wages paid to all personnel engaged directly on the project including, but not limited to, engineers, project managers, planners, surveyors, designers, CADD technicians, estimators, observers, other technical personnel, typists and administrative staff.
2. Labor cost burden – customary and statutory benefits including, but not limited to, social security and Medicare contributions, unemployment taxes, excise and payroll taxes, workers compensation, health, pension and retirement benefits, sick leave, vacation and holiday pay applicable hereto.
3. Reimbursable Expenses – these costs are in addition to labor cost and labor cost burden, and are those expenses necessary to fulfill the terms of this Contract. They may include transportation and subsistence, reproduction, postage, photography and printing, computer services and miscellaneous costs. The Consultant shall submit with each monthly invoice a detailed listing of reimbursable expenses incurred.

The total engineering fee under this Contract shall be based on an hourly rate. The Owner will be furnished copies of Consultant's subcontracts. All reimbursable expenses shall be billed as "pass-through" and are part of the maximum not-to-exceed amount (unless specifically noted).

The sum to be paid to the Consultant for tasks in Section III, Scope of Services of this Contract, shall be a maximum not-to-exceed fee of \$ 225,354 (two hundred twenty-five thousand three hundred fifty-four dollars). Refer to Exhibit I for Staff hour/Fee Estimate.

B. Payments

Payments for the Consultant's engineering services shall be made monthly upon presentation of the Consultant's statement of services rendered on Owner's form.

Upon receipt of the invoice and review/approval by the Owner, the Owner shall promptly pay the Consultant for the engineering services rendered as indicated on the invoice. Invoices are due 30 days from date of invoice.

VI. INSURANCE

The Consultant shall maintain insurance to protect the Consultant from claims under Workmen's Compensation Acts; claims due to personal injury or death of any employee or any other person; claims due to injury or destruction of property; and claims arising out of errors, omissions, or

negligent acts for which the Consultant is legally liable. The minimum amounts and extent of such insurance is as follows:

1.	Professional Liability	\$ 2,000,000
2.	Vehicle Coverage	\$ 1,000,000 liability \$ 5,000 medical \$ 1,000,000 uninsured
	Property Damage	\$ 1,000,000 each accident
3.	Workmen's Compensation	\$ 100,000 each accident
4.	General Liability	\$ 1,000,000 each occurrence \$ 2,000,000 aggregate

VII. MISCELLANEOUS PROVISIONS

A. Use of Documents

All documents, including drawings, specifications, and electronic media prepared or furnished by the Consultant (and the Consultant's subsidiaries, independent professional associates, and sub consultants) pursuant to this Contract shall be the property of the Owner. Such documents are intended as instruments of service, as such, these documents are not intended or represented to be suitable for use or reuse by the Owner or others to complete the project, or for extensions of the project, or on any other project without written consent of the Consultant. Any use or reuse by the Owner will be at the Owner's sole risk, and without liability or legal exposure to the Consultant or to the Consultant's subsidiaries, independent professional associates, and sub consultants. The Owner agrees to defend, indemnify, and hold harmless the Consultant from any and all costs, expenses (including reasonable litigation costs), fees, losses, claims, demands, liabilities, suits, actions, and damages whatsoever arising out of such reuse or alteration by the Owner or liaisons acting through the Owner. Upon completion or other termination of this Contract, the Consultant shall deliver to the Owner machine reproducible copies of any and all materials pertaining to this Contract. For calculations, etc. on letter or legal size sheets, the copies shall be of a type possible to reproduce on a Xerox-type copier. For maps, drawings, sketches, plans, etc. not on such letter or legal size sheets, a photographically reproduced print shall be provided as the machine reproducible copy mentioned above. No sheets shall exceed 11"x 17". The Consultant shall also provide CAD file in AutoCAD format upon completion of this Contract. The CAD file must be georeferenced to State-Plane Coordinates (NAD83 / Iowa South) and Sea Level Elevation (NAVD88) and contain the following information:

1. All utility pipe linework and points for structures and appurtenances, including manholes, intakes, cleanouts,

- aprons, hydrants, hydrant valves, mainline valves, and water shut offs (curb stops).
2. All pavement linework, including back of curb, driveways, sidewalks, trails, and shared use paths.
 3. All right-of-way lines, property lines, existing easement lines, and proposed easement lines per original scope of boundary and topographic survey.
 4. Streetlight poles, traffic signal poles, controller cabinets, handholes, and street trees, when applicable.

The Consultant's reuse of designs under this Contract is prohibited unless authorized by the Owner.

B. Changes in the Scope of Work

When there is a substantial change in the scope, complexity, or character of the work performed, or if the Owner requests the Consultant to alter the completion dates established, the specified fee as listed under Section V of this Contract will be reappraised. If the Consultant believes that he/she has been asked to perform work beyond the Scope of Services covered by this Contract or by a supplemental agreement hereto, he/she shall promptly notify the Owner, in writing, of his/her intention to make claim for such extra compensation. The Consultant shall not proceed with any such work until a supplemental agreement is fully executed, or written intent of said execution is provided.

C. Delays

The Consultant will notify the Owner in writing of any unusual delay, including the reason therefore, to his/her normal progress in completing the work under this Contract, either actual or prospective, and request an appropriate extension of time. Authorization for the time extension will be at the discretion of the Owner. If completion of the Consultant's work is delayed by events beyond the control of the Consultant, the established engineering fees and schedules of completion will be subject to review upon request by the Consultant to the Owner, accompanied by adequate substantiating data to justify a change.

D. Suspension and Termination of Contract

1. In the event of the death of any member or partner of the Consultant's firm, the surviving members shall complete the work, unless otherwise mutually agreed upon by the Owner and the survivors.
2. The right is reserved by the Owner to terminate this Contract at any time, upon not less than fourteen (14) days

written notice to the Consultant. The Consultant may also terminate this Contract on fourteen (14) days written notice.

3. In the event the Contract is terminated by the Owner without fault on the part of the Consultant, the Consultant shall be paid for work performed and delivered up to the date established in the termination notice.
4. The right is reserved by the Owner to suspend this Contract at any time. Such suspension may be affected by the Owner by giving the Consultant written notice, and will be effective as of the date established in the suspension notice. Payment of the Consultant's services will be made by the Owner for services performed to the date established in the suspension notice in accordance with Paragraph 3 above.
5. Should the Owner wish to reinstate the work after notice of suspension, such reinstatement may be accomplished by thirty (30) days written notice within a period of one (1) year after such suspension, unless this period be extended by written consent of the Consultant.

E. Disputes

All claims, disputes, and other matters in question between the parties of this Contract arising out of or relating to this Contract or the breach thereof shall be initiated in the District Court for Polk County, Iowa, if the parties are unable to resolve such claims, disputes, or other matters in question by negotiation.

F. Responsibility for Claims and Liability

The Consultant shall indemnify and hold harmless the Owner from any and all claims and liabilities due solely to any negligent acts, errors, or omissions of the Consultant, its members, employees, or agents.

G. General Compliance With Laws

The Consultant shall comply with federal, state, and local laws and ordinances applicable to the work as defined in Section III.

H. Subletting, Assignment, or Transfer

Subletting, assignment, or transfer of all or part of the interest of the Consultant is prohibited unless written consent is obtained from the Owner.

I. Forbidding the Use of Outside Agents

The Consultant warrants that he/she has not employed or retained any company or person, other than a bona fide employee working for the Consultant, 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, any fee, commission, percentage, brokerage fee, gift, or any other consideration contingent upon or resulting from the award or making of this Contract. For breach or violation of this warranty, the Owner shall have the right to annul this Contract without liability, or in its discretion, to deduct from the Contract price or consideration, or otherwise recover, the full amount of such fee, commission, percentage, brokerage fee, gift, or contingent fee.

J. Employment of the Owner's Personnel

The Consultant shall not engage the services of any person or persons then in the employ of the Owner for work covered by this Contract without the written consent of the employers of such persons.

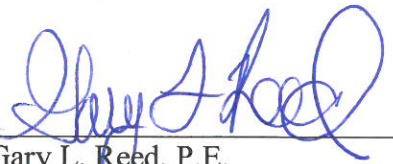
This Contract expresses the entire agreement between the parties, and no representations, promises, or warranties have been made by either of the parties that are not fully expressed herein.

IN WITNESS WHEREOF, the parties hereto have caused this Contract to be executed by their proper officials thereunto duly authorized as of the dates below indicated:

OWNER
CITY OF ANKENY, IOWA

Mayor

CONSULTANT
CIVIL DESIGN ADVANTAGE



Gary L. Reed, P.E.
President

ATTEST:

EXHIBIT 'A'

**Standard Fee Schedule
2018-2019
Civil Design Advantage, LLC**

<u>Classification</u>	<u>Billing Rate</u>	<u>Unit</u>
Principal / Senior Engineer	\$172 /	hour
Principal / Senior Land Surveyor	\$172 /	hour
Senior Engineer	\$162 /	hour
Engineer 8	\$151 /	hour
Engineer 7	\$141 /	hour
Engineer 6	\$130 /	hour
Engineer 5	\$120 /	hour
Engineer 4	\$110 /	hour
Engineer 3	\$100 /	hour
Engineer 2	\$90 /	hour
Engineer 1	\$80 /	hour
Senior Technician	\$126 /	hour
Technician 8	\$116 /	hour
Technician 7	\$108 /	hour
Technician 6	\$100 /	hour
Technician 5	\$91 /	hour
Technician 4	\$81 /	hour
Technician 3	\$70 /	hour
Technician 2	\$61 /	hour
Technician 1	\$50 /	hour
Project Manager 8	\$148 /	hour
Project Manager 7	\$136 /	hour
Project Manager 6	\$128 /	hour
Project Manager 5	\$122 /	hour
Project Manager 4	\$115 /	hour
Administrative 3	\$75 /	hour
Administrative 2	\$56 /	hour
Administrative 1	\$44 /	hour
Mileage	Current IRS Rate /	mile
Plots (Black & White)	\$1.50 /	sheet
Plots (Color)	\$30 /	sheet
Mylar Plots	\$15 /	sheet
Copies (Black & White)	\$0.10 /	page
Copies (Color)	\$0.75 /	page

EXHIBIT 'C'

Project Estimate and Work Unit Tracking Report



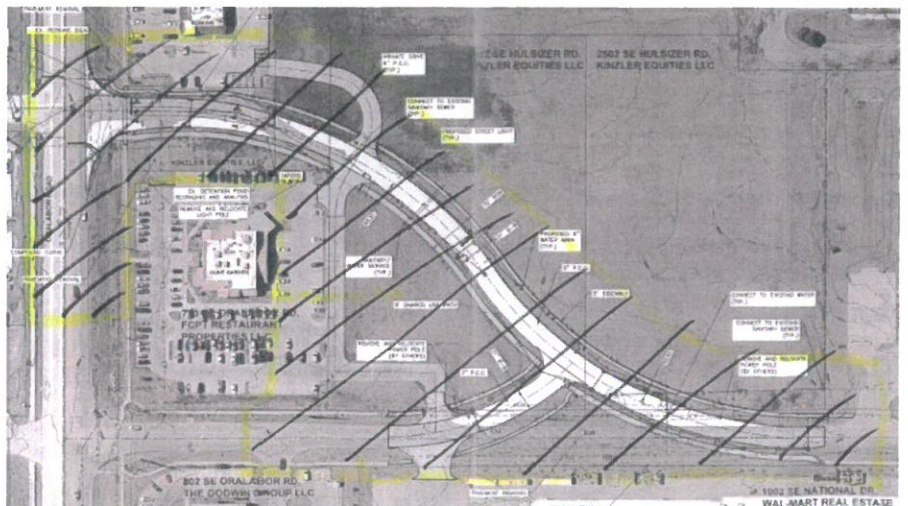
Project Address	770 SE Oralabor Rd	Date Estimated	3/29/2019
City/State	Ankeny IA 50021	County	
Project Lead Name	Mike Brooner PLS	PE Stamp Require	N
Email	mikeb@cda-eng.com	PH#	515-208-1317
Contractor	RECONN		
Lead Name	Ben Perez	PH#	970.420.8819
Project length Ft.	SQ/FT	Estimate Completion Date	TBD

Itemized bid cost estimate vs actual billing

One Call ticket #	Estimate		As invoiced by RECONN		
	Estimating Tool		Actual invoiced billing		
	Units	Est	Current	Previous	Total
One Call locate notifications	1	75			
Onsite Supervisor (per person/day)		0			
Locate 1000' - 60' row-CL thru U esmt.		0			
Locator (Per/hourly)	32	2720			
Vacuum Excavation - Truck & Crew (Daily)	2	4200			
Back Fill and sludge disposal	2	300			
Sewer main per 1000'		0			
Sewer lat or service ea.		0			
Sewer lat or service ea.		0			
Plan page & data disk (700' per page)		0			
Plan page & data disk (700' per page)		0			
GeoTag Utility Sketch		0			
Mobilization - Vac Truck	1	1500			
Mobilization - Locator(s)		0			
Sewer Service Rod		0			
GPR - Per/Hr		0			
PE review and stamp (per page)		0			
Total		\$8,795.00	\$ -	\$ -	\$ -

Utilities

Electric
Gas
Water
Phone
Fiber
Cable
Storm



ALLENDER BUTZKE ENGINEERS INC.

GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION Q. C.



SCOPE AND FEES FOR PROFESSIONAL SERVICES

PROJECT NAME: SE Hulsizer Re-alignment **PN:** 191174
PROJECT ADDRESS: SE Hulsizer and Oralabor Road
Ankeny, Iowa
CLIENT: Civil Design Advantage - Attn: Gary Reed, P.E.
ADDRESS: 3405 SE Crossroads Drive, Suite G
Grimes, IA 50111

SCOPE: Geotechnical Exploration - Mobilization with truck mounted drilling equipment, utility locations (Iowa One Call), drill and sample 3 test borings 15 feet deep, laboratory testing (which includes 1 Atterberg limit, 1 grain size analysis, and 1 standard Proctor test for soil classification for SUDAS), engineering analysis including pavement thickness analysis, and written report. Borings will be backfilled and patched, where necessary.

COMPENSATION TERMS: Total cost for the above scope of services will be \$4,150.00. Consultation subsequent to completion of report invoiced at current engineering rates. Add \$300.00 if soft or wet ground conditions require the use of all-terrain drilling equipment. Boring locations are to be staked by CDA prior to utility locates and drilling, the cost of which is not included in the above cost.

REMARKS: Field exploration could be scheduled to be conducted within two to three weeks of receiving authorization, weather permitting. A verbal report of our findings and recommendations will be available one week after drilling, followed one to two weeks later with the written report. ABE will contact only Iowa One Call for public utility locates. Private utility locates will be the responsibility of the owner and should be properly marked prior to the drill crew arriving at the site.

PROPOSED BY ABE INC.

By:

Stacy G. Brocka, P.E.

Title: Senior Project Engineer

Date: April 1, 2019



EXHIBIT 'E'

Professional Services Agreement

Project:	Environmental Services		
Address:	SE Hulsizer Dr. Re-alignment, Ankeny, IA	Date:	2/22/2019

Client:	Civil Design Advantage, LLC		
Contact:	Gary L. Reed, P.E.		
Address:	3405 SE Crossroads Drive, Suite G, Grimes, IA 50111		
Phone:	(515) 369-4400		
Email/Address:	garyr@CDA-eng.com		

AGREEMENT made this 22nd day of February 2019, by and between the service provider, Impact7G, Inc. ("Impact7G"), and the Client, Civil Design Advantage, LLC ("Client.");

WHEREAS, the Client intends to engage the services of Impact7G to complete professional services;

WHEREAS, Impact7G agrees to provide said services pursuant to the terms of this Agreement.

NOW THEREFORE, the parties agree as follows:

1. **Project**

Impact7G agrees to complete environmental services for the subject property associated with the SE Hulsizer Dr. re-alignment in Ankeny, Iowa. A subject property location map is included with this proposal with the property boundary outlined in red.

2. **Scope of Services**

Phase I ESA

Impact7G uses standard methods to research the environmental condition of properties, coupled with professional judgment on research needs to meet the guidelines outlined in the American Society for Testing and Materials (ASTM) E1527-13, *Standard Practice for Environmental Site Assessments* coupled with EPA's *Rule: Standards and Practices for All Appropriate Inquiries* (AAI). The initial part of the Phase I ESA will be a document review of each property to determine the site history. Documents reviewed will include previous ESAs, DNR records, land use and zoning information, aerial photographs, Sanborn maps, city directory, plat maps, index of deeds data, and abstracts of title, if available. Reports will also be ordered from a federal and state database "records review" information provider. These reports will provide an up-to-date regulatory status of the site and map risk sites within the ASTM search distance parameters.

Where available, interviews will be conducted with the Fire Marshall, City and/or county health department officials, and property owners to compile information regarding past and current environmental conditions. A visit will be made to the subject property to investigate any or all of the following, as required:



- Location of any known aboveground or underground fuel or bulk chemical storage tanks.
- On-site waste disposal practices.
- Evidence of unreported or unpermitted activities that are presently covered under local, state, or federal regulations.
- Location and description of existing structures.
- Photographs of selected areas.
- Use and management of hazardous and petroleum material.
- On-site presence of PCB-containing equipment.
- Location of buried septic systems, cesspool, evaporation pond, or other waste treatment units.
- Location of existing monitoring wells, drinking water wells, stock wells, and irrigation wells.
- Evidence of vegetative distress, soil discoloration, surface subsidence, or other environmental damage, if seasonal conditions permit such observations.
- Conduct an inspection of surrounding area.
- Identify possible sampling/analytical needs for Phase II assessment.

Wetland Delineation

Impact7G will provide environmental services related to Wetlands/Waters of the United States within the limits of the project area, as defined in the enclosed. The purpose is to determine whether wetlands are present and, if so, to delineate them and provide a report of our findings to the CLIENT. The work shall be completed in accordance with the requirements specified by the Army Corps of Engineers in the *Corps of Engineers Wetlands Delineation Manual* (1987) and *FSA Manual* (1996) and shall include the following tasks:

- **Data Collection and Base Map Preparation**
Impact7G will review existing documents including soil maps, aerial photos, USGS topographic quadrangle maps, and National Wetland Inventory (NWI) maps to make a preliminary determination of the location and size of Waters of the United States (WOUS) and/or wetlands in the project area. This information will be analyzed prior to fieldwork for WOUS/wetlands indicators including hydric soils, water control features, blue-line streams, and NWI mapped wetlands to aid in field investigation.
- **Field Work**
Impact7G will conduct a field investigation to locate and delineate the location and boundary of WOUS (including all streams) and/or wetlands within ROW limits. Impact7G will also collect soil information and check soil for indicators of hydric soil, examine the subject area for the presence of hydrophytic vegetation and wetland hydrology, and mark wetland boundaries and other features on field maps. Delineated boundaries of wetlands will be identified with GPS or low-flight aeriels or similar technology.
- **Document Preparation**
Impact7G will provide a report that discusses the findings regarding the presence of WOUS and/or wetlands. The report will include: results of preliminary analysis, field methodology, field photographs and conclusions on the presence, location and area of WOUS and/or wetlands and potential impact of proposed development on WOUS/wetlands (if present). This report will include a figure showing the limits of the field survey and, if present, the location and area of WOUS/wetlands.



Permit Application Preparation/Submittal (Optional)

Army Corps of Engineers (ACOE) permits are necessary for work, including construction, in the Nation's navigable waters (i.e., WOUS/wetlands). During the wetland investigation, Impact7G will attempt to determine if waters of the United States are present and what impacts, if any, are proposed. If applicable, Impact7G will prepare, coordinate and submit an application to the ACOE in an effort to obtain a Section 404 Permit. Submission of a joint application will also be completed to the Iowa Department of Natural Resources. Due to requested application information pertaining to the development plan, a coordinated effort between Impact7G and the Client will be required to provide a complete application to the ACOE.

3. **Provider Responsibilities.** Impact7G hereby agrees to:

- (i) Provide the professional services as set forth in this Agreement; and
- (ii) Perform said services in a manner consistent with that degree of care and skill ordinarily exercised by members of the same profession currently practicing at the same time and in the same or similar locality.

4. **Client Responsibilities.** Client hereby agrees to:

- (i) Provide a knowledgeable representative of the subject properties, who will be available to coordinate all on-site work;
- (ii) Provide unrestricted access to the subject properties for Impact7G to perform the services; and
- (iii) Provide copies of any previously-completed reports that may be pertinent to this Project.
- (iv) Provide pertinent contact information to complete this Project.

5. **Schedule.** The Project will commence immediately upon receipt of the Notice to Proceed ("NTP") from the Client.

6. **Project Cost, Payment and Termination.** The Client shall pay Impact7G the Not-To-Exceed Costs for the tasks identified below for the performance of this Agreement. Direct costs such as communications, postage, routine printing and copying are not invoiced separately, but are included with the Lump Sum to streamline the accounting process and reduce overhead costs.

Tasks – SE Hulsizer Drive Re-alignment - Ankeny	Not-To-Exceed Cost
Phase I ESA	\$2,500
Wetland Delineation and Reporting	\$3,050
Army Corps Permit Application Submittal (Optional)	\$800

The table below lists the hourly rates associated with applicable Impact7G personnel titles.



Subject Property Location Map

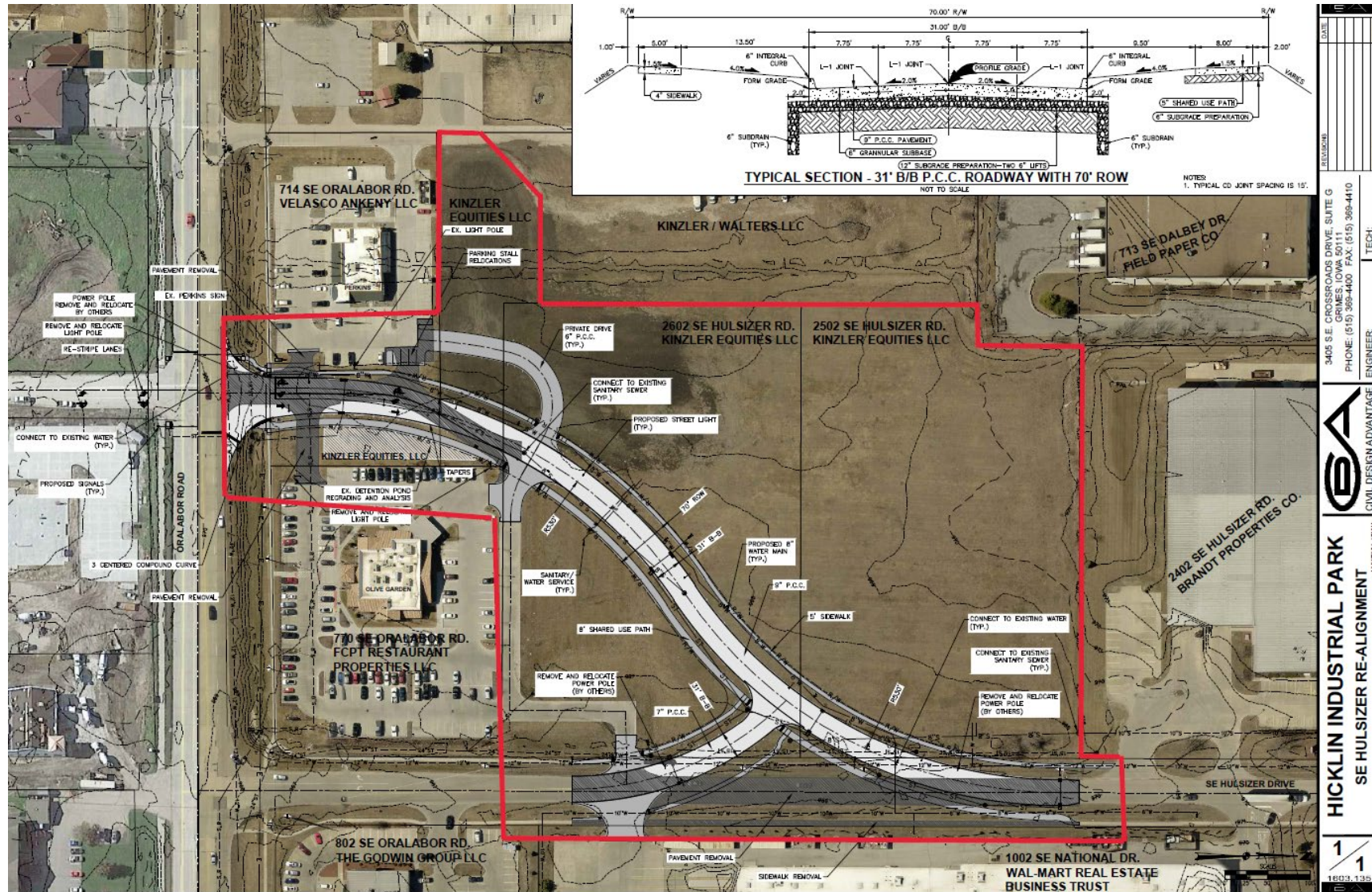


EXHIBIT 'F'

EXHIBIT A – SCOPE OF SERVICES SE HULSIZER ROAD REALIGNMENT TRAFFIC ENGINEERING SERVICES ANKENY, IOWA

The following scope of services is for a Traffic Impact Study (TIS) and traffic signal design services for the planned realignment of SE Hulsizer Rd north of SE Oralabor Rd (IA 160), in the City of Ankeny. The planned realignment is from the existing SE Oralabor Rd and SE Rio Drive intersection, north to a point approximately 1,000' north of SE Oralabor Rd.

Task 1 – Project Meetings

Attend up to three meetings with the Consultant, City of Ankeny and/or Iowa DOT to discuss the project. Meetings are anticipated to include project kick-off, preliminary plan review and check plan review.

Task 2 – Traffic Impact Study (TIS)

The TIS will be performed per Iowa DOT "Guidelines for Traffic Impact Analysis", December 5, 2013. Information from the previous NE 19th Lane and SE Oralabor Road Traffic Impact Study Update will be used as applicable.

A. Data Collection:

1. Traffic Counts: Perform AM, midday and PM peak hour turning movement traffic counts at the following intersections. Counts will include pedestrians and truck percentages.

SE Oralabor Rd & SE Peachtree St
SE Oralabor Rd & SE Rio Dr
SE Oralabor Rd & SE Hulsizer Rd
SE Oralabor Rd & SE PDI Pl
SE Oralabor Rd & SE Delaware Ave
SE Hulsizer Rd & Walmart South Access

2. Development Information: The Consultant will provide available preliminary site plans, proposed access locations and miscellaneous development information (uses, square footage, number of units, zoning info, etc.) for planned and anticipated area development.

- B. Crash Analysis: Review crash history at the following intersections using the Iowa DOT crash database and ICAT software. Determine crash rates, predominant crash types and major causes.

SE Oralabor Rd & SE Peachtree St
SE Oralabor Rd & SE Rio Dr
SE Oralabor Rd & SE Hulsizer Rd
SE Oralabor Rd & SE PDI Pl
SE Oralabor Rd & SE Delaware Ave

EXHIBIT 'F'

C. Traffic Forecasts:

1. Perform opening year and design year trip generation analysis of planned and anticipated area development. It is assumed that opening year will be 2020 and design year will be 2040. Distribute and assign trips to the following intersections to be included in the study (study intersections).

SE Oralabor Rd & SE Peachtree St
SE Oralabor Rd & SE Rio Dr
SE Oralabor Rd & SE Hulsizer Rd
SE Oralabor Rd & SE PDI Pl
SE Oralabor Rd & SE Delaware Ave
SE Rio Dr & SE Hulsizer Rd (future intersection)

2. Utilize trip generation estimates, traffic count data and projected background traffic growth to determine estimated AM, midday and PM peak hour turning movement traffic volumes at the study intersections, for the following analysis scenarios. Provide models used to City.
 - a. Existing conditions
 - b. Opening year with proposed realignment (Build)
 - c. Design year without proposed realignment (No-Build)
 - d. Design year with proposed realignment (Build)

D. Traffic Analysis:

1. Perform traffic operations analyses to determine AM, midday and PM peak hour average delays, levels of service and vehicle queuing for each study intersection, for each analysis scenario and period.
 2. Evaluate applicable MUTCD traffic signal warrant criteria to determine if a traffic signal is expected to be warranted at the SE Oralabor Rd and SE Rio Dr/ realigned SE Hulsizer Rd intersection.
 3. Evaluate NCHRP Report 457 and NCHRP Report 745 turn lane criteria, as appropriate, to determine if left or right turn lanes are warranted or are expected to be warranted at the unsignalized study intersections.
 4. Evaluate and provide recommendations regarding access along realigned SE Hulsizer Rd.
 5. Based on analyses performed, identify recommended improvements to the study intersections, recommended turn lane storage lengths and recommended lane configurations for the realigned SE Hulsizer Rd.
- E. Report: Prepare a draft TIS report summarizing analyses and recommendations. Submit the draft report to the Consultant, City of Ankeny and Iowa DOT for review. Finalize the TIS report after receipt of draft report comments.

EXHIBIT 'F'

Task 3 – Traffic Signal Design and Plans

A. Preliminary Traffic Signal Design and Plans

1. Utilize project base mapping and proposed intersection design to be provided by the Consultant to prepare traffic signal plans for the SE Oralabor Rd and SE Rio Ct/ realigned SE Hulsizer Rd intersection, using applicable design standards and specifications of the City of Ankeny, Iowa DOT, SUDAS and the MUTCD.
2. Prepare a mark-up drawing of proposed sidewalk, pedestrian ramp and crosswalk layouts for the SE Oralabor Rd and SE Rio Ct/ realigned SE Hulsizer Rd intersection. Provide mark-up drawing to Consultant for use in preparing preliminary plans.
3. Traffic signal preliminary plans will include a preliminary layout of the traffic signal installation suitable for determination of potential underground utility conflicts.
4. Traffic signal check plans are anticipated to include the following sheets to be incorporated into the project plan set prepared by the Consultant. Plans will include City fiber optic network connection to the new controller cabinet.
 - a. Signal Notes and Quantities Sheet
 - b. Signal Layout Sheet
 - c. Signal Wiring Sheet
 - d. Signal Phasing Sheet
 - e. Signal Detail Sheet(s)
5. Provide preliminary opinions of probable traffic signal cost for the Consultant to incorporate into preliminary and check plan cost opinions for the project.

B. Final Traffic Signal Design and Plans

1. Complete the final traffic signal design, plans and specifications for incorporation into the project documents. Specifications may include Special Provisions or estimate reference information to supplement Iowa DOT or SUDAS standard specifications.
2. Prepare a final opinion of probable traffic signal cost to incorporate into the project cost opinion.
3. Prepare a Public Interest Finding (PIF) request for any proprietary signal equipment specified for the project. Submit to City of Ankeny and Iowa DOT.
4. Prepare an Iowa DOT traffic control device permit application and submit to City of Ankeny and Iowa DOT.

- C. Bid Phase Services: Respond to Consultant, City, Iowa DOT or contractor questions regarding the traffic signal plans during the project bid phase. Assist in preparing addenda regarding the traffic signal, as needed.

EXHIBIT 'F'

PROJECT SCHEDULE

Work will be performed in accordance with a schedule mutually agreed upon by the Consultant and Subconsultant. A late 2019 or early 2020 project letting is anticipated.

COMPENSATION AND TERMS OF PAYMENT

The Consultant will pay the Subconsultant in accordance with the terms and conditions of this agreement. The Scope of Services will be performed on an hourly rate and expenses basis with the total fee not to exceed \$39,900 unless approved by a supplemental agreement signed by both parties. Hourly rates will be per the standard fee schedule in effect at the time services are performed. The current fee schedule is attached.

TASK	ESTIMATED FEE
Task 1 – Project Meetings	\$1,700
Task 2 – Traffic Impact Study	\$18,600
Task 3 – Traffic Signal Design and Plans	\$19,600
TOTAL MAXIMUM FEE	\$39,900

ADDITIONAL SERVICES

Additional services may include but are not limited to the following. These services are not included in the Scope of Services or fees, but may be added, if requested, by a supplemental agreement signed by both parties.

- Project meetings with the Consultant, City of Ankeny or Iowa DOT not previously addressed
- Conducting additional traffic counts not previously addressed.
- Analysis of additional intersections, time periods, access scenarios or development scenarios.
- Temporary traffic signal design or plans.
- Roadway or site lighting analysis, design or plans, unless addressed previously.
- Construction staging and traffic control plans.
- Signal pole foundation structural analysis and site specific foundation design.
- Pavement marking or signing plans.
- Traffic signal construction administration or observation (post-letting) services.
- Traffic signal timing and coordination plans.

EXHIBIT 'F'

SNYDER & ASSOCIATES, INC.
2019-20
STANDARD FEE SCHEDULE

Billing Classification/Level		Billing Rate
Professional		
<i>Engineer, Landscape Architect, Land Surveyor, GIS, Environmental Scientist Project Manager, Planner, Right-of-Way, Graphic Designer</i>		
Principal II	\$208.00	/hour
Principal I	\$197.00	/hour
Senior	\$177.00	/hour
VIII	\$163.00	/hour
VII	\$155.00	/hour
VI	\$148.00	/hour
V	\$138.00	/hour
IV	\$128.00	/hour
III	\$116.00	/hour
II	\$106.00	/hour
I	\$93.00	/hour
Technical		
<i>Technicians--CADD, Survey, Construction Observation</i>		
Lead	\$125.00	/hour
Senior	\$119.00	/hour
VIII	\$111.00	/hour
VII	\$103.00	/hour
VI	\$92.00	/hour
V	\$82.00	/hour
IV	\$76.00	/hour
III	\$64.00	/hour
II	\$56.00	/hour
I	\$48.00	/hour
Administrative		
II	\$64.00	/hour
I	\$52.00	/hour
Reimbursables		
Mileage	<i>Current IRS standard rate</i>	
Outside Services	<i>As Invoiced</i>	

EXHIBIT 'G'

JCG Land Services, Inc. – ROW Scope of Services

RIGHT OF WAY and EASEMENT ACQUISITION:

On behalf of the CLIENT, JCG will perform the following tasks; or, when necessary, will obtain those professional services from local, qualified resources and pass those direct costs through to the CLIENT based on actual bills and/or receipts for service with JCG's invoice(s):

- **Record of Property Ownership and Liens Certificates.** Based on the final design of the facility or public improvement project, JCG will identify those parcels that are expected to be acquired in fee or encumbered by an easement to identify current ownership. For acquisition purposes, a certified Record of Ownership and Liens report(s) will be obtained by JCG from a local abstractor and verified to identify all the owners, easements and encumbrances, judgments, mortgages, and other interest holders needed to obtain possession of the interests in land being acquired. *The costs for procuring the Recertified Record of Ownership and Liens for each parcel will be a pass-through, reimbursable expense as noted on JCG's project Invoices.*
- **Acquisition Plats and Legal Descriptions / Project Plans.** To be provided by CLIENT.
- **Public Hearing**
If applicable, the CLIENT will mail the Notice of Public Hearing and a Statement of Property Owner's Rights to all property owners and contract purchasers by regular mail not less than 30 days before the date of the hearing; and publish a notice of the public hearing at least 4 but not more than 20 days before the public hearing. Upon request, JCG will participate in the Public Hearing to explain the acquisition process.
- **Compensation Valuation.** JCG will prepare offers of compensation based current fair market value of similar property in the vicinity of the project. To adequately determine the fair market value of right of way sought to be acquired, JCG will search public records for comparable sales data for each land use type encountered for allocation of just compensation payments. If the proposed acquisition for any parcel is complicated and/or estimated to exceed \$25,000.00, JCG will recommend the services of an experienced Eminent Domain Appraiser to prepare the appraisal products for the CLIENT. If requested, JCG will also recommend an experienced Eminent Domain Review Appraiser to complete the valuation process. The CLIENT shall approve the Review Appraiser's allocation of value to be offered to the affected property owner(s) as Just Compensation for the acquisition of each parcel. *The costs for procuring appraisal and review appraisal reports for each parcel will be a pass-through, reimbursable expense as noted on JCG's project Invoices.*
- **Acquisition Process.** Forms of transfer documents and purchase agreements will be submitted to the CLIENT for approval and acceptance. Where applicable, preparation of Warranty Deeds for the conveyance of fee ownership interests will be the responsibility of the CLIENT's attorney, or other attorney to comply with state law.

JCG shall make a good faith effort to negotiate the purchase of the land, or interests in the land, needed for the project. JCG shall make contacts with the property owners, tenants and/or their legal representative to explain the effect of the acquisition, answer questions, and make a written offer to acquire the property. Nonresident landowners shall be contacted by mail, return receipt requested if necessary. If an agreement cannot be reached with a property owner through good faith negotiations, JCG shall consider any evidence of value or an appraisal provided by the landowner; report landowner counteroffers; and/or make a recommendation whether a settlement should be attempted at an

amount other than that previously offered. No action shall be taken based on such recommendations until it has been approved by the CLIENT.

Negotiations shall be considered complete upon occurrence of one of the following:

- both the owner and tenant accept the offer or an administrative settlement, or
- either the owner or tenant fails or refuses to sign the offer or administrative settlement, or
- in the judgment of the CLIENT, negotiations have reached an impasse.

For every parcel on which negotiations have reached an impasse or that cannot be acquired by negotiated agreement, JCG shall deliver as much of the file to the CLIENT as is necessary for the CLIENT's Attorney, or other attorney, to begin preparation for the condemnation of the parcel.

- **Closing Process.** Upon completion of the acquisition of right of way, JCG will organize and verify data for each parcel file's closing and payment process and return the parcel file data to the CLIENT for payment processing and the closing process. The completed file will contain originals of all executed conveyance documents, a signed W-9 form, and, if necessary, an Allocation of Proceeds statement directing the split of payment(s) to be made.
- **Relocation Assistance** As necessary, (**UNDER A SEPARATE TIME AND MATERIALS ADDENDUM TO THIS AGREEMENT**) JCG will provide relocation assistance and advisory services in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended. The relocation agent will meet with the CLIENT to review the program and discuss the scope of work before beginning any activities relating to relocation assistance. The JCG relocation assistance specialist will follow the general procedures, provide services, create and maintain records, and submit reports and status reports as required by State and Federal procedures. The tasks involved with relocation activities include initial interviews with displacees, preparation of studies, presentation of offers, inspecting replacement properties, attending closings, monitoring moves, processing and reviewing claims, and providing advisory assistance.
- **Condemnation Support.** In the event condemnation should become necessary, JCG will provide parcel file documents and information necessary for the CLIENT and/or the ACQUIRING AUTHORITY's attorney, or other attorney, to file the Application for Condemnation. If requested, (**UNDER A SEPARATE TIME AND MATERIALS ADDENDUM TO THIS AGREEMENT**) attend necessary meetings in support of the condemnation proceeding and/or appear as an expert witness at the condemnation hearing. In addition to the items contained in the Scope of Services for this Agreement, JCG will also provide additional support and administrative services as requested by the CLIENT's attorney in support of the condemnation process on a case by case basis.
- **Project Management.** Throughout the project, JCG will provide a project manager with significant public works project experience to oversee the process and progress of the acquisition team, meet with the CLIENT and/or its contractors as necessary, and submit periodic status reports to CLIENT's personnel that will calculate the level of completion of each respective task in the process.

Services not furnished by JCG are not covered by the terms of this Agreement. The CLIENT shall be solely responsible for performance of work not covered by this Agreement.

JCG Land Services R.O.W. Cost Estimate Breakdown

Civil Design Advantage, LLC

City of Ankeny, SE Hulsizer Drive Re-Alignment

2/27/2019

Estimate includes negotiations with five Landowners and two Tenants

Description of Work	ROW Agent (hours)	Project Manager (hours)	GIS / GPS Mapping	JCG Expenses**	By Others	total # parcels
					Appraisals & ROL's	5
Record of Ownership and Liens (4) Title Certificates					\$1,600.00	0.0 hrs.
Compensation Valuation						
(2) Compensation Estimate by JCG	4.0	0.0				4.0 hrs.
(3) Appraisals and Review Appraisals	0.0	0.0			\$9,150.00	
Acquisition Process	139.0	0.0				139.0 hrs.
Proj. Management, client meetings, and parcel tracking/status reporting	12.0	20.0				32.0 hrs.
Subtotal (hours)	155.0	20.0				175.0 hrs.
Rate/hr.	\$90.00	\$100.00				
JCG Expenses (mileage, copies, recording, postage, misc.)				\$1,035.00		\$1,035.00
JCG Fees	\$13,950.00	\$2,000.00				\$15,950.00
Subtotal JCG Acquisition Services Estimate						\$16,985.00
Reimbursable Expenses (BY OTHERS)					\$10,750.00	\$10,750.00
Total: Right of Way Acquisition Cost Estimate						\$27,735.00

Exhibit H

Additional Services

The following is a list of services not included in the current scope of services or compensation. This list is provided to further define the agreement scope. The list includes, but is not limited to:

- Phase 2 Environmental Site Assessment Services
- Additional Topographic or Boundary Survey other than specified
- Wetland Mitigation Services
- Revisions/Monitoring of the Storm Water Pollution Prevention Plan (SWPPP)
- Subdivision Platting
- Separate Site Plan Preparation (impacts to adjacent sites are included in basic services and will be shown in roadway construction drawings)
- Traffic Studies, beyond traffic engineering described within agreement
- Structural Engineering
- Technical Specification Preparation beyond traffic signal special provisions (Refer to SUDAS)
- Franchise Utility Design
- Color Renderings
- Easement Document Preparation (outside of ROW, unless specified)
- Relocation Assistance
- Construction Services
- Construction Staking
- Construction Administration
- Construction Observation
- Extra Service items identified within sub-consultant agreements, unless otherwise indicated

Exhibit I

Estimate of Hours by Task/Employee Classification

	Principal/ Proj. Mngr.	Land Surveyor	Project Engineer	Design Technician	CADD Operator	Construction Observer	Survey Field Crew	Clerical	Subconsultant Fee	Total Fee
Task 1 - Existing Utility Locating Services		1	1				1		\$8,795	\$9,242
Task 2 - Geotechnical Investigation	1		1				2		\$4,150	\$4,762
Task 3 - Phase 1 Environmental Site Assessment (ESA)	1		1				2		\$2,500	\$3,112
Task 4 - Wetland Services	1		1				2		\$3,850	\$4,462
Task 5 - Field Survey	2	2	8				45			\$8,993
Task 6 - Existing Utility Information/Coordination	8		16				4			\$3,796
Task 7 - Traffic Engineering/Traffic Signal Design	2		4						\$39,900	\$40,684
Task 8 - Right-of-way Services	2		4						\$27,735	\$28,519
Task 9 - Functional Concept Preparation	4		16	8	8					\$4,040
Task 10 - Public Outreach	4		4							\$1,128
Task 11 - Construction Drawing Preparation (Preliminary Design)	24		100	60	60			8		\$27,532
Task 12 - Construction Drawing Preparation (Check Plans)	48		134	92	100			12		\$42,728
Task 13 - Public Street Photometric Plan			6	8						\$1,524
Task 14 - Easement/Acquisition Plat Documents*		24					4			\$4,788
Task 15 - Construction Drawing Preparation (Final Plans)	24		100	60	60			8		\$27,532
Task 16 - Front End Contract Documents/Project Manual Prep.	16		8					8		\$4,096
Task 17 - Estimated Construction Costs	4		16					4		\$2,680
Task 18 - Bidding Services**	4		4					16	\$1,000	\$3,056
Task 19 - Bid Letting Services	2		2					2		\$680
								Subtotal		\$223,354
								Estimated Expenses		\$2,000
								Total		\$225,354

* We have assumed 3 acquisition plats and 6 perm./temp easement plats shall be required

** Assume 20 downloads at \$50 each

*** No construction phase services are included with this fee estimate