
ADDENDUM #1 for RFB #1820335007

Project Name: West Capitol Terrace Bioretention Cells

DAS RFB #: 1820335007

DAS Project #: 9113.00

Date: 08/27/2019

ADDENDUM #1:

- Cover Page – Table of Contents, Revisions, Clarifications (2 Pages)
- Exhibit A: Pre-bid meeting agenda (2 Pages)
- Exhibit B: Pre-bid Sign-in Sheet (1 page)
- Exhibit C: Geotechnical Exploration (18 pages)
- Revised SECTION 00 3113 (3 pages)
- Revised SECTION 00 4116 (5 pages)

CLARIFICATIONS:

1. Engineer's estimate for this project is approximately \$100,000.
2. Bid Package #1 (Sitework) will be responsible for installation of the spade edging scope. Bid Package #2 (Landscaping) shall re-establish the spade edging during Spring installations.
3. Bid Package #2 (Landscaping) shall provide modified topsoil as called for in the specification's to accommodate soil removed during stripping of vegetation.
4. There is no tree removal to be done as a part of this project. All existing trees are to remain and shall be protected as indicated in the bid documents.
5. Bid Package #1 (Sitework) will be responsible for temporary seeding and shall be responsible for warranty items that arise prior to Bid Package #2 (Landscaping) work to begin in the Spring.
6. The Geotechnical Exploration report conducted by Allender Butzke Engineers for this project has been provided for reference.

REVISIONS:

1. **REVISE** SECTION 00 3113 – PRELIMINARY SCHEDULE
 - a. Schedule has been adjusted for Bid Package #02 Substantial Completion to reflect the start of the planting window as 05/01/20 with a new Substantial Completion date for Bid Package #01 of 5/20/20.
 - b. See attached revised Section 00 3113.
2. **REVISE** SECTION 01 1200 – CONTRACT SUMMARY

- a. 1.03 Project Summary, item B.
 - i. Revise substantial completion date to **11/08/19 for BP #1** and **05/20/20 for BP #2**.
- 3. **REVISE** SECTION 01.A – BID PACKAGE #01 SITEWORK
 - a. 1.b This contractor shall be responsible for all barricades, fencing and signage necessary for sidewalk closures, protection of existing items, and public safety. Boundary site fencing shall be installed by this contractor and removed at substantial completion of bid package #01. Temporary fencing around bioretention cells shall be installed by this bid package and removed by bid package #02 in the Spring.
- 4. **ADD** SECTION 01.B – BID PACKAGE #02 LANDSCAPING
 - a. 1.h This contractor shall be responsible for the removal of the bioretention cell temporary fencing installed by Bid Package #01.
- 5. **REVISE** SECTION 00 4116 – BID FORM
 - a. A combined bid option has been added as Bid Package #03. Bidders may provide a lump sum cost to perform both bid packages #01 & #02. See attached revised bid form.

DRAWINGS:

- 1. None at this time.

END OF ADDENDUM #1

August 21st, 2019 at 2:00 PM

Owner/DAS/CM Team Introductions:

Iowa Department of Administrative Services (DAS) – Brad Tonyan
Construction Manager – DCI Group – Michael Steen, Adam Byrne
Designer – LT Leon – Paul Speed, Luis Leon
DAS Purchasing Agent – Bobbi Pulley

General Project Description/Overview:

1. The project includes the construction of two (2) new bioretention cells on the grounds of the Capitol Complex, along with new sidewalks, landscaping, and various patch work to existing conditions to remain (paving, sidewalks, etc.).

Bid Package Process:

Overview of Instructions to Bidders – DCI Group

Bid Packages:

- 1) BP #1 – Sitework
- 2) BP #2 – Landscaping

BIDS DUE: Thursday, August 29th, 2019 at 2:00 PM

MAKE SURE IT IS SUBMITTED TO DAS AS THE REQUEST FOR PROPOSALS READS

1. Proposal Process
 - a. All bids to be submitted per Instructions to Bidders
2. Schedule
 - a. Questions due **August 23rd, 2019** by 2:00 PM CST
 - i. All questions after this meeting and prior August 23rd, 2019, to be submitted to Bobbi Pulley at construction.procurement@iowa.gov. Do not contact DAS, LT Leon, or DCI Group directly for questions or clarifications.
 - b. An addendum will be issued to incorporate minutes and sign-in sheet from this Pre-Proposal Meeting.
 - c. Final addendum will be issued no later than **August 27th, 2019** by 2:00 PM CST or no later than 48 hours prior to proposals being due.
 - d. Bids due **August 29th, 2019** by 2:00 PM CST
 - e. Tentatively an NOI will be issued by August 30th, 2019.
 - f. Anticipated construction start is September 18th, 2019, final completion May 18th, 2020.
 - i. Substantial Completion for BP #1 anticipated as November 8th, 2019.
 - ii. Substantial Completion for BP #2 anticipated as April 20th, 2020.
 - iii. Plantings and maintenance to begin Spring of 2020.
 - iv. A scheduling meeting (Pull Plan Schedule) will be held shortly after execution of contracts to further develop the construction schedule. All prime contractors, subcontractors, and key suppliers shall attend.
 - v. One week prior to the meeting, contractors shall provide a preliminary schedule of their activities with locations and activities of their subcontractors with durations and sequencing.

Scope of Work Overview:

1. Administrative
 - a. This RFB will result in one successful proposal per bid package.
 - b. Agreement between the Owner and Contractor will be a modified ConsensusDocs 802
 - c. EADOC – State of Iowa project management software
 - i. No cost to the contractor
 - d. Pre-construction meetings and submittals.

- i. Construction kick-off meeting will be scheduled after all bid packages have been awarded.
 - ii. Prime contractors shall submit a submittal schedule within five business days of receipt of Owner/Prime Contractor Agreement. See section 01 1200.16 for requirements. A template with A/E identified submittals will be provided to contractors.
2. Construction
 - a. Work hours will be 7:00 AM to 5:00 PM Monday-Friday.
 - b. All areas shall be cleaned and put back to existing conditions prior to substantial completion.
 - i. Dumpsters/Haul-off are the responsibility of each bid package.
 - ii. Temporary toilet facilities are the responsibility of each bid package.
 - iii. All Contractors shall ensure construction debris is fully contained within temporary enclosures.
 - c. Staging and storage of materials will need to be coordinated with DCI Group/DAS
 - d. Daily logs/Weekly Report/Safety Meetings and meeting requirements.
 - e. Onsite supervision by Prime Contractor is required at all times when work by that contractor or their subcontractors/suppliers is taking place.
3. Close out
 - a. Provide complete, clean, and legible copies of the as-built construction records to DCI Group upon completion of work. Electronic and hard copies of all O&M's and as-built drawings to be submitted. Refer to spec. section 01 7700 – Closeout Procedures for more details.

State Rules

1. No background checks will be required for this project.
2. It is of the utmost importance to show respect and courtesy to all staff at all times.
3. Clean all debris, materials, and bring all finishes back to existing conditions in the area they were working in prior to moving to the next area.
4. No smoking or smokeless tobacco use onsite.

Open Discussion Items

- Clarification needed on which BP is responsible for spade edge scope.
- Combined bid package can be an option if that would be preferred.
- Tie-in to existing storm structure will require road/sidewalk closure, something to keep in mind.
- Tree removal – none at this time. All trees to remain and be protected during demolition.
- Coordination in Spring with Capitol Complex events? No concern at this time, just ensure site is always kept clean.
- Temp fencing is to be a certain color per plans/specs due to Fall events such as “World Food Prize,” NOT the standard construction orange.
- BP #1 will be responsible for temp seeding and any return trips needed for warranty items prior to BP #2 work beginning in the spring.



Project Name: 9113.00 – West Capitol Terrace Bioretention Cells

Meeting Purpose: Pre-bid

Date: August 21st, 2019 at 2:00 PM

Attendees

<u>Name</u>	<u>Company</u>	<u>Phone Number</u>	<u>E-Mail Address</u>
Michael Steen	DCI Group	515-975-8348	michaels@dcigroup-us.com
Adam Byrne	DCI Group	515-570-8295	adamb@dcigroup-us.com
Jim Hymbaugh	Hymbaugh Const	641-340-0232	hymba@iowa.gov
Zach Phillips	Woodruff Const	641-352-0470	zachp@woodruffcompanies.com
Bryan Spriggs	Wenthold Excavating	641-990-2357	bryan@wenthold-excavating.com
Paul Speed	LT Leon	515-422-7016	pspeed@lleon.com
Luis Leon	LT Leon	"	lleon@lleon.com
Brad Tonyan	DAS	515-360-7718	brad.tonyan@iowa.gov
JEFF THACKER	DCI GROUP		
Josh Davenport	DAS	515-393-1697	joshua.davenport@iowa.gov
Steve Konrad	DNR	515-725-8388	steven.konrad@dnr.iowa.gov

ALLENDER BUTZKE ENGINEERS INC.

GEOTECHNICAL • ENVIRONMENTAL • CONSTRUCTION Q. C.



April 27, 2018

Iowa Department of Natural Resources
502 East 9th Street
Des Moines, IA 50319
Attn: Steven Konrady

RE: Geotechnical Exploration
West Terrace Bioretention Cells
East Walnut Street
Des Moines, Iowa
PN 171246A

Dear Mr. Konrady:

As authorized by Allen Bonini of Iowa Department of Natural Resources (IDNR), IDNR Contract No. 18-ESDWQBSKONR-0002, Allender Butzke Engineers, Inc. (ABE), has conducted a geotechnical exploration at the Iowa State Capitol west terrace for the proposed bioretention cells to be located north of East Walnut and between East 7th Street and Finkbine Drive in Des Moines, Iowa. The green infrastructure will include two bioretention cells to be constructed about 1 to 2 feet below on the southwest portion of the west terrace, Figure No. 1. The geotechnical exploration was conducted to evaluate subsurface conditions with respect to stormwater infiltration design for the proposed cells and installation of utilities.



Figure No. 1 - Site Location Map

FIELD EXPLORATION

Two double ring infiltration tests were scheduled to be conducted near the proposed cell locations. During site preparation to conduct these tests, hand probing of the soil profile was conducted prior to testing. Fill materials were encountered at both test locations and it was determined to conduct soil borings to further explore the fill and fill depths.

Two soil borings were conducted at the site to depths of 15 feet below existing grades on April 23, 2018. Approximate locations of the borings are shown on the Site Plan enclosed in the Appendix. The boring locations and ground surface elevations were determined using GPS survey equipment. The boring surface elevations, indicated on the enclosed Boring Logs, were Iowa Real-Time Network (RTN) derived. Methods of drilling, sampling, standard laboratory testing, and classifying of subsurface materials are discussed in the Boring Log Description/Legend pages of the Appendix.

SUBSURFACE CONDITIONS

Detailed descriptions of the soils encountered by this exploration are provided on the Boring Logs enclosed in the Appendix. The Profile of Borings (Plate A-1) presented in the Appendix depicts the relative deposit elevations in the borings. Unless otherwise indicated, the depths of soil stratum and groundwater levels are referenced from below existing grade at the individual boring locations at the time of drilling.

Fill consisting of dark brown to brown lean clay (CL) was encountered at the ground surface in both borings. Fragments of brick were encountered within the fill in both borings. Dark brown cinders were encountered from about 5 to 6.5 feet in Boring No. 2. The lower boundary of the fill was encountered near depths of 6.5 to 7 feet.

Dark brown to brown sandy lean clay (CL) Wisconsin glacial till was present beneath the fill. Boring No. 1 terminated in the moist glacial till near a depth of 15 feet. Light gray clay shale weathered bedrock was encountered beneath the glacial till in Boring No. 2. This boring terminated in the bedrock near a depth of 15 feet.

During drilling operations, no moisture seepage was noted in either boring. No groundwater accumulation was observed in either boring at the completion of drilling operations. It should be recognized that these short-term water levels are not necessarily a true indication of the groundwater table. Long-term observations would be necessary to accurately define the groundwater variations at this site. It is common in this area to encounter a perched groundwater condition above the relatively impermeable clay shale weathered bedrock such as in Boring No. 2 near depths of 10 feet. Fluctuation of groundwater levels can occur due to seasonal variations in the amount of rainfall, surface drainage, subsurface drainage, site topography, irrigation practices, and ground cover (pavement or vegetation).

SITE RESEARCH

After fill was encountered in the hand probing, some site research of Sanborn maps was conducted. Based on this review, it appears that there were previous structures located on portions of this site. The approximate Sanborn maps were overlaid onto Google Earth and are provided in the Appendix on the Site Maps.

STORMWATER INFILTRATION

With the presence of cohesive (clay) fill at this site in the upper 6.5 to 7 feet of the soil profile, these materials would be considered unsuitable for infiltration.

Grain size analyses were conducted on representative samples of the Wisconsin glacial till for USDA Soil Classification. Results of the grain size analyses are presented in the enclosed Figure Nos. GS-1 and USDA-1 in the Appendix. Test results indicate that the natural lean clay with sand (CL) glacial till soils encountered below the fill in the borings would be classified according to USDA as silt loam and clay loam which are categorized as NRCS Hydrologic Soil Groups of C and D, respectively.

The Iowa Storm Water Management Manual Chapter 5 Sections 1.E.2 and 1.F.1.A indicate that soil textures recommended for infiltration systems should not have more than 30% clay or 40% clay and silt combined. Based on the laboratory test results, the on-site natural Wisconsin glacial till soils have more than about 80% combined silt and clay and would be considered unsuitable for infiltration.

Relatively impermeable clay shale weathered bedrock was encountered in Boring No. 2 after a depth of 10.5 feet. Due to the on-site being unsuitable for infiltration, it is assumed that amended soils and/or an aggregate layer may be necessary for design. Due to the depth of the bedrock, the bedrock is not expected to be encountered within 2 feet of the bottom of any aggregate layers.

UTILITY EXCAVATION STABILITY, DEWATERING AND BACKFILL

Boring information indicates excavations at the site will encounter predominately cohesive soils with no wet sand seams or layers. It is expected that the water seepage can be controlled by permitting it to drain into temporary construction sumps and be pumped outside the perimeter of the excavations.

Since previous structures were present at this site, previous foundations and/or floor slabs may be present and could be encountered within excavations. Where encountered, larger excavation equipment and/or pneumatic tools may be required to complete excavations to the desired depths.

The extent of bracing or sloping of open cut excavations will be dependent upon depth of cut, groundwater conditions, soils encountered, length of time the excavation will be open, area available for excavation and local governing regulations. Predominately cohesive soils may appear to stand nearly vertical in shallow excavations for short periods of time. However, soil creep, surcharge loads, precipitation, subsurface moisture seepage, construction activity vibrations and other factors may cause these soils to cave within an unpredictable period of time. Excavations encountering sand may tend to cave rapidly, especially if water is flowing through the sand. Unstable granular excavation walls may also cause surrounding cohesive soils to become unstable. Temporary shoring, flattening of the excavation slopes or use of trench boxes may be required to maintain a safe condition. Determining the appropriate OSHA classifications of the soil types encountered and implementing the required provisions for sloping, shoring, and bracing of excavations throughout the project during construction are the responsibility of the contractor per OSHA.

The following Table A lists recommended minimum compaction requirements for cohesive and cohesionless fill materials in specific applications. For cohesive soils, moisture contents within a range of -1 to +4 percent of the material's optimum moisture content are necessary to achieve the desired fill qualities. Soils compacted closer to optimum moisture content would exhibit greater stability under repeated construction traffic loading.

TABLE A
RECOMMENDED DEGREE OF COMPACTION GUIDELINES

Construction Application	Standard Proctor (ASTM D698) Cohesive Soil	Standard Proctor (ASTM D698) Cohesionless Soil	*Relative Density (D4253 & D4254) Cohesionless Soil
Class 1	95%	98%	70%
Class 2	90%	93%	45%
Class 3	85%	88%	20%

Class 1 - Subgrade for building foundations, slabs-on-grade, pavements and other critical backfill areas.

Class 2 - Backfill adjacent to structures not supporting other structures - Minor subsidence possible.

Class 3 - Backfill in non-critical areas - Moderate subsidence possible.

*Use Relative Density technique (ASTM D4253 & D4254) where Standard Proctor technique (ASTM D698) does not result in a definable maximum dry density and optimum moisture content.

The on-site soils can be excavated utilizing conventional excavation equipment. Granular soils can generally be suitably compacted with vibratory compaction equipment whereas cohesive soils are more suitable for compaction with sheepfoot or pneumatic type compactors. Care should be exercised in properly backfilling and compacting all trenches,

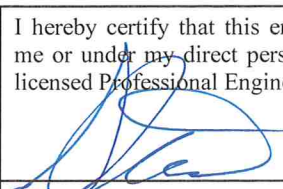
especially utility trenches under or adjacent to the pavement. Loosely compacted or sand backfilled trenches can collect surface water and inadvertently direct it to the pavement subgrade and cause softening of the soil as well as increasing frost heave potential.

We appreciate the opportunity to provide our geotechnical engineering services for this project. If you have any questions or need further assistance, please contact us at your convenience.

Respectfully submitted,
ALLENDER BUTZKE ENGINEERS INC.


Stacy G. Brocka, P.E.
Senior Project Engineer


David Logemann, P.E.
Principal Engineer

	I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.	
	 Stacy G. Brocka, P.E. My license renewal date is December 31, 2019. Pages covered by this seal: <u> All Pages </u> .	<u>4/27/18</u> Date License Number 14203

1 PC and 1 Email Above
Email – LT Leon Associates – Attn: Luis Leon, P.E.

APPENDIX

BORING LOG DESCRIPTION/LEGEND

(page 1 of 3)

The material types encountered during the drilling operations were recorded on field logs. The profile represented on the Boring Log is based on final classification performed by a geotechnical engineer using the field logs, laboratory observation and testing. The material stratigraphy demarcation lines shown on the Boring Logs indicate changes in soil characteristics, however, actual soil changes or variations may occur as a gradual transition. Soil profile discussion, Log Boring information, water levels and recommendations presented in this report are based upon measured depths below ground levels existing at time of the field exploration, unless otherwise specified.

DRILLING AND SAMPLING

The borings were conducted with either a truck or all-terrain rotary drill rig using the drilling methods indicated on each Boring Log. Soil sampling and/or in-situ testing such as Shelby Tube (ST), split-spoon (SS), drive cone (DC), or core (C) was conducted at depth intervals which were selected in consideration of the characteristics of the proposed construction. Generally undisturbed soil samples are taken at 5 foot depth intervals or change in soil types. Disturbed soil samples from the auger, either jar size or bulk size samples, may be taken at intermediate intervals for the purpose of soil classification or laboratory testing. Borings conducted for soil classification only, will show no designation of sampling although disturbed sampling is performed. Soil samples obtained in the field were identified and sealed for transportation to the laboratory for performance of pertinent physical testing and engineering classification.

Drilling Methods

- CFA - Continuous Flight Auger: 4, 6, or 8-inch diameter (ASTM D1452).
- RD - Rotary Drilling: Using drilling fluid in cased or uncased boring (ASTM D2113).
- HSA - Hollow Stem Auger: 6 or 8-inch diameter, continuous flight auger remains in boring with soil removed from the hollow stem through which undisturbed sampling is conducted.
- HA - Hand Auger: 4-inch or less diameter.

Sample Types

- ST - Shelby Tube: Thin-walled tube samples of cohesive soils (ASTM D1587).
- SS - Split Spoon with 140 lb. manual hammer: Standard penetration test and split-barrel samples (ASTM D1586).
- SSA - Split Spoon with 140 lb. automatic hammer: Standard penetration test and split-barrel samples (ASTM D1586).
- DC - Drive Cone: Dynamic in-place testing of soil using a 2-inch diameter cone with a 60 degree point driven into the soil for continuous 1-foot intervals in the same manner as Split Spoon, no sample is obtained.
- C - Core: Sampling hard soil or bedrock with a diamond core barrel in a rotary drill boring (ASTM D2113).
- SPT - Standard Penetration Test: Number of blows required to drive sampler (split spoon or drive cone) into the soil with a 140-pound weight dropping a distance of 30-inches (ASTM D1586), number of blows recorded for each 6-inch interval in an 18-inch (or more) penetration depth, values shown are for each 6-inch interval (if series of number sets are shown) or a total of the last two 6-inch intervals (if only one number is shown) which is commonly referred to as "N" in blows per foot. High resistance is indicated by a high number of blows for a lesser penetration depth listed in inches.
- BS - Bulk Sample: Disturbed.
- CPT - Cone Penetration Test: Quasi-static in-place testing of soils using a 60 degree cone and friction sleeve which are steadily pushed into the soil and measure skin friction and end bearing (ASTM D3441).

STANDARD LABORATORY TESTING

Representative undisturbed soil samples obtained by the Shelby Tube sampler were tested for moisture content (ASTM D2216), density (dry) and unconfined compressive strength (ASTM D2166) in the laboratory. Results of these tests appear on the respective Boring Logs. Additional soil testing including particle size analysis (ASTM D422) and Atterberg Limits (ASTM D4318) may be conducted, if necessary, to define in more detail pertinent soil characteristics for classification in accordance with the Unified Soil Classification System. Specialized laboratory tests (if conducted) to determine pertinent soil characteristics are discussed in the "Laboratory Testing" section of the report.

WATER LEVEL MEASUREMENT

Water levels indicated on the Boring Logs are the levels measured in the borings at the times indicated. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels is not possible with short term observations.

BORING LOG DESCRIPTION/LEGEND

(page 2 of 3)

DESCRIPTIVE SOIL CLASSIFICATION

Soil description is based on the Unified Classification System as outlined in ASTM Designations D-2487 and D-2488. This classification is primarily based upon visual and apparent physical soil characteristics, comparison with other soil samples, and our experience with the soil. Additional laboratory testing may be conducted, if necessary to define in more detail pertinent soil characteristics. The Unified Soil Classification group symbol shown on the boring logs corresponds with the group names listed below. The description includes soil constituents, moisture conditions, color and any other appropriate descriptive terms.

Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name	Group Symbol	Group Name
GW	Well-Graded Gravel	SW	Well-Graded Sand	CL	Lean Clay	CH	Fat Clay
GP	Poorly-Graded Gravel	SP	Poorly-Graded Sand	ML	Silt	MH	Elastic Silt
GM	Silty Gravel	SM	Silty Sand	OL	Organic Clay Organic Silt	OH	Organic Clay Organic Silt
GC	Clayey Gravel	SC	Clayey Sand			PT	Peat

RELATIVE PROPORTIONS			GRAIN SIZE TERMINOLOGY	
Descriptive Term(s) (Of components also present in sample)	Sand and Gravel % of Dry Weight	Fines % of Dry Weight	Major Component of Sample	Size Range
Trace	<15	<5	Cobbles	12 in. to 3 in. (300mm to 75mm)
With	15-30	5-12	Gravel	3 in. to #4 sieve (75mm to 4.75mm)
Modifier	>30	>12	Sand	#4 to #200 sieve (4.75mm to 0.074mm)
			Silt or Clay	Passing #200 sieve (.074 mm)

CONSISTENCY OF FINE-GRAINED SOILS			RELATIVE DENSITY OF COARSE-GRAINED SOILS	
Unconfined Compressive Strength, Qu, psf	Consistency	SPT, bpf	SPT, bpf	Relative Density
< 500	Very Soft	0-2	0-4	Very Loose
500-1,000	Soft	2-4	4-10	Loose
1,000-2,000	Medium Stiff	4-8	10-30	Medium Dense
2,000-4,000	Stiff	8-15	30-50	Dense
4,000-8,000	Very Stiff	15-30	50-80	Very Dense
8,000-16,000	Hard	30-100	80+	Extremely Dense
> 16,000	Very Hard	>100		

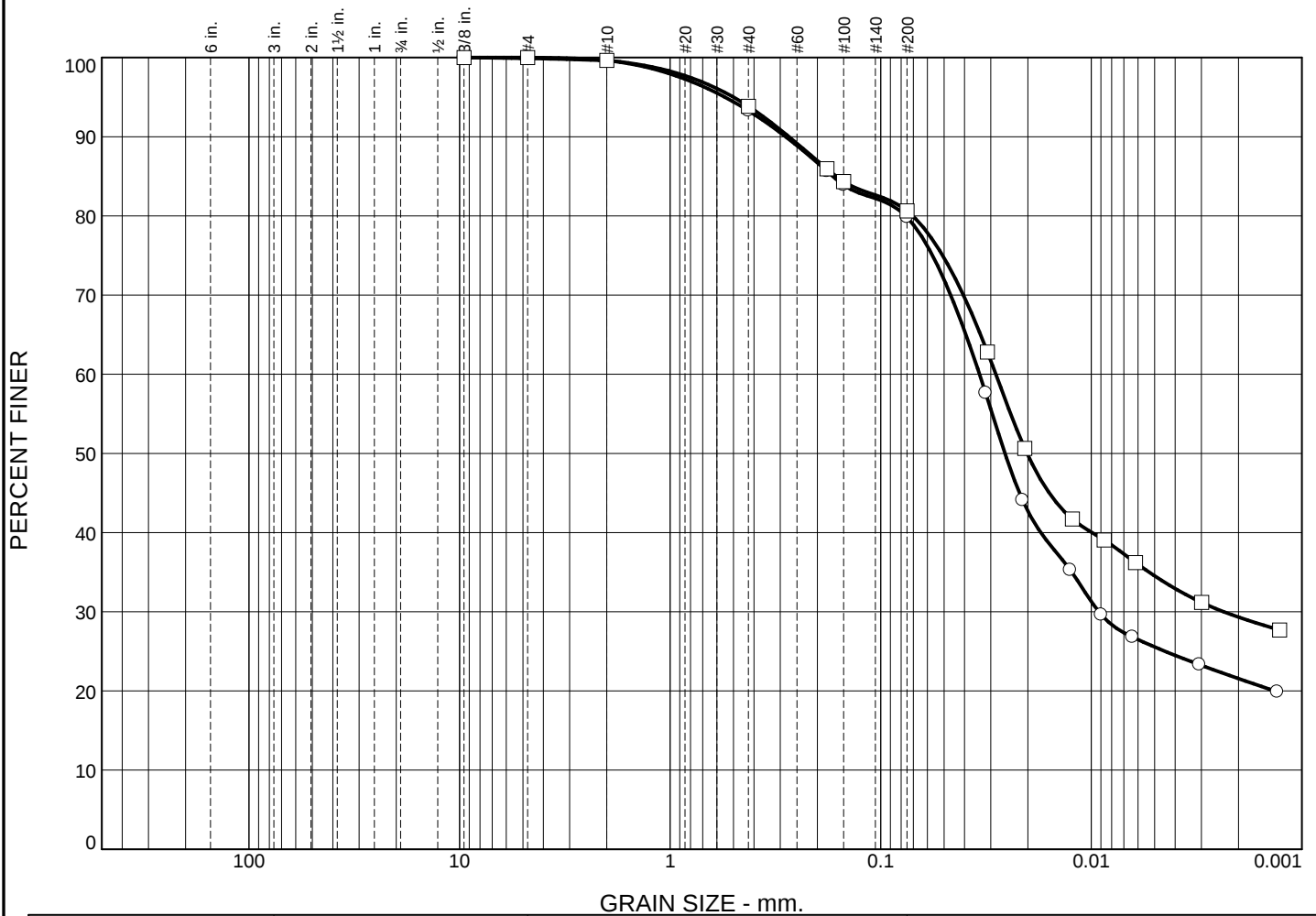
BORING LOG DESCRIPTION/LEGEND

(page 3 of 3)

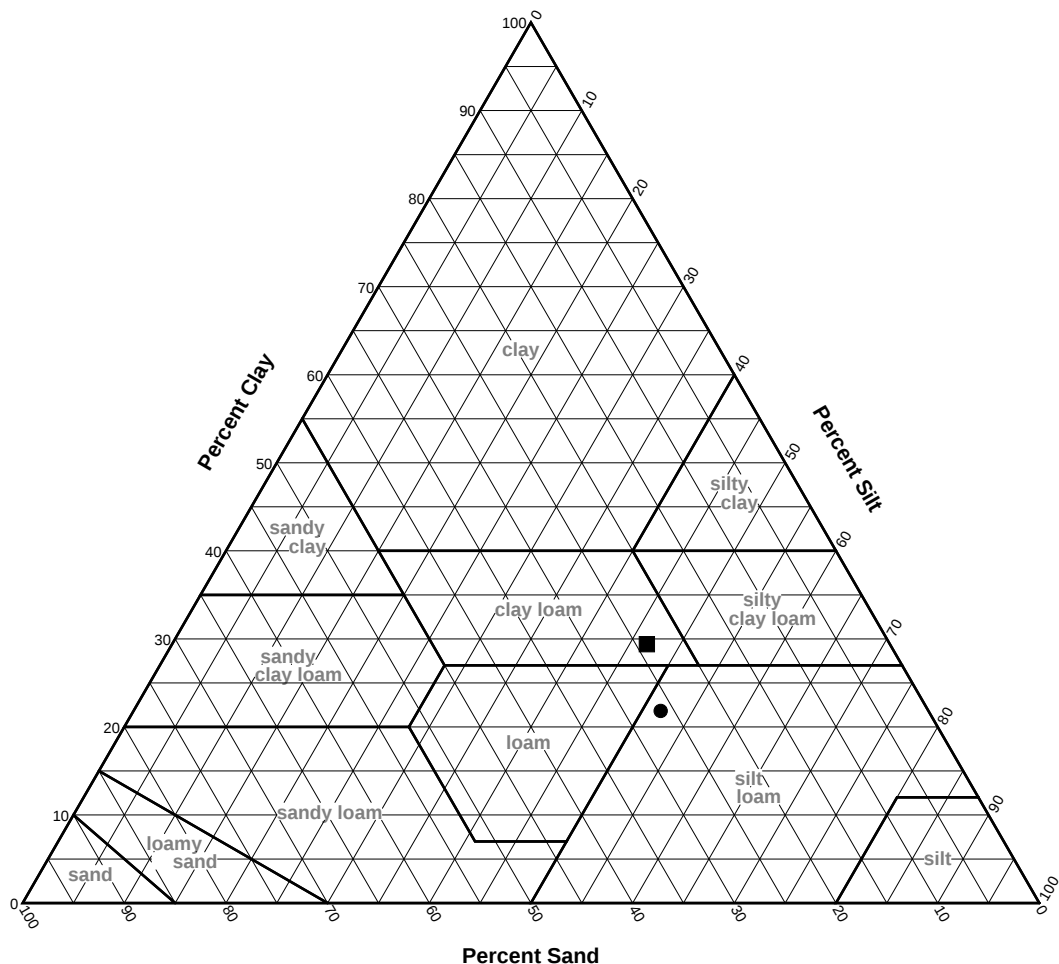
ABBREVIATIONS

COMMONLY USED ABBREVIATIONS	
ft. or ' - feet	elev. - Elevation
in. or " - inches	% - Percent
psf - pounds per square foot	No. - Number
plf - pound per lineal foot	TB - Test Boring
pcf - pounds per cubic feet	N - blow count (SPT, bpf)
kip - 1000 pounds	USCS - Unified Soil Classification System
ksf - 1000 pounds per square foot	LL - Liquid Limit
klf - 1000 pounds per lineal foot	PL - Plastic Limit
tsf - tons per square foot	PI - Plasticity Index
bpf - blows per foot (SPT, N)	

Particle Size Distribution Report



USDA Soil Classification



SOIL DATA

	Source	Sample No.	Depth	Percentages From Material Passing a #10 Sieve			Classification
				Sand	Silt	Clay	
●	1		8-10	26.3	52.0	21.7	Silt loam
■	2		7-10	23.9	46.7	29.4	Clay loam

**ALLENDER
BUTZKE
ENGINEERS, INC.**

Client: Iowa DNR
Project: West Terrace Biocells
 Des Moines, Iowa
Project No.: 171246

Figure USDA - 1

BORING LOG NO. <u>1</u>								Project No.: <u>171246</u>				
Project: <u>West Terrace Biocells</u> <u>E Walnut Street</u> <u>Des Moines, Iowa</u>							Client: <u>Iowa DNR</u> <u>502 E 9th Street</u> <u>Des Moines, Iowa</u>					
Surface Elevation: <u>822.9'</u> Datum: <u>Iowa RTN Derived</u>							Date Drilled: <u>4/23/18</u> Drilling Depth, ft.: <u>15</u>		Drilling Method: <u>4" CFA</u> Page: <u>1</u> of <u>1</u>			
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength psf	Material Description*	Graphic Log	USCS	Water Level	Depth ----- Elevation ft.
822	0							Dark brown lean clay, moist Brown with brick fragments after 1'		CL		
819	3							FILL				
816	6							Dark brown sandy lean clay, moist Brown after 8'		CL		7 815.9
813	9							WISCONSINAN GLACIAL TILL				
810	12											
807	15							End of Boring				15 807.9
804	18											
804	21											

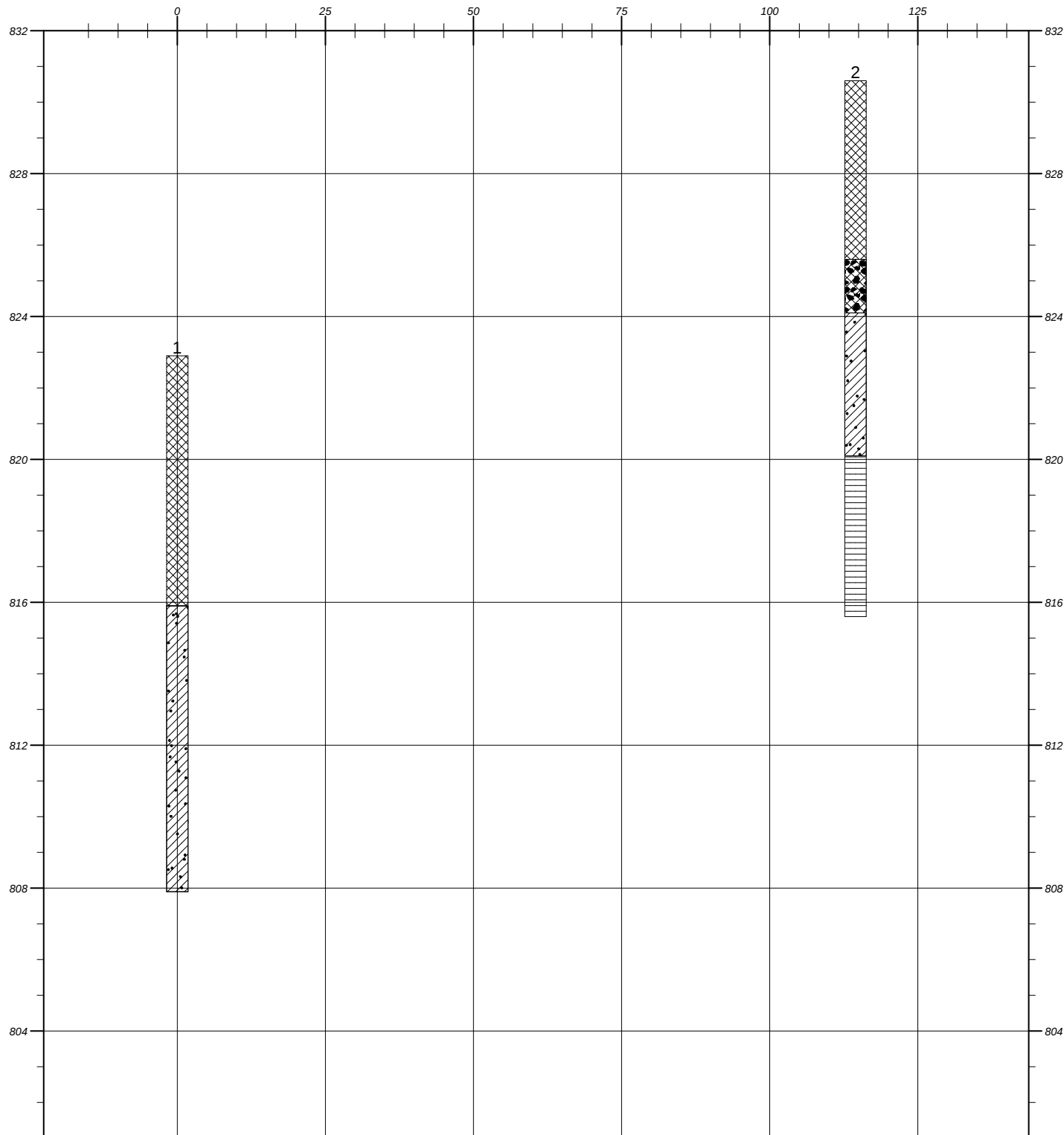
*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.

Water Level Observation Time: at completion hrs. days Depth to water: <u>Dry</u> ft.  ft.  ft. 	ALLENDER BUTZKE ENGINEERS, INC. Geotechnical Environmental Construction Q.C.
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BORING LOG NO. 2								Project No.: 171246					
Project: West Terrace Biocells E Walnut Street Des Moines, Iowa							Client: Iowa DNR 502 E 9th Street Des Moines, Iowa						
Surface Elevation: 830.6' Datum: Iowa RTN Derived							Date Drilled: 4/23/18 Drilling Depth, ft.: 15		Drilling Method: 4" CFA Page: 1 of 1				
Elevation ft.	Depth ft.	Sample No.	Type	SPT bpf	Moisture Content, %	Dry Density pcf	Unconfined Compressive Strength psf	Material Description*	Graphic Log	USCS	Water Level	Depth ft.	Elevation ft.
828	0							Dark brown lean clay, moist		CL			
	3							Brown with brick fragments after 1'					
	6							Dark brown cinders from 5' to 6.5'					
822	9							Dark brown sandy lean clay, moist		CL		6.5	824.1
	12							Brown after 8'					
	15							Light gray clay shale, damp to moist				10.5	820.1
	18							WEATHERED BEDROCK					
810	21							End of Boring				15	815.6

*The stratification lines represent the approximate boundary lines between material types: in-situ, the transition may be gradual.

Water Level Observation Time: at completion hrs. days Depth to water: Dry ft.  ft.  ft. 	ALLENDER BUTZKE ENGINEERS, INC. Geotechnical Environmental Construction Q.C.
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PROFILE OF BORINGS

Plan View (NORTH)



Profile of Borings Legend

Symbol Description

Strata symbols

	Fill
	Sandy Lean Clay With Gravel
	Fill - Cinders
	Clay Shale

ALLENDER BUTZKE ENGINEERS, INC.



West Terrace Biocells

E Walnut Street

Des Moines, Iowa

PN 171246

Vertical Scale: 1 inch = 4 feet

Plate A-1



B-# Approximate Boring Locations.

This plan is intended to show the approximate boring locations only.

ALLENDER BUTZKE ENGINEERS INC.

3660 - 109th Street
Urbandale, IA 50322

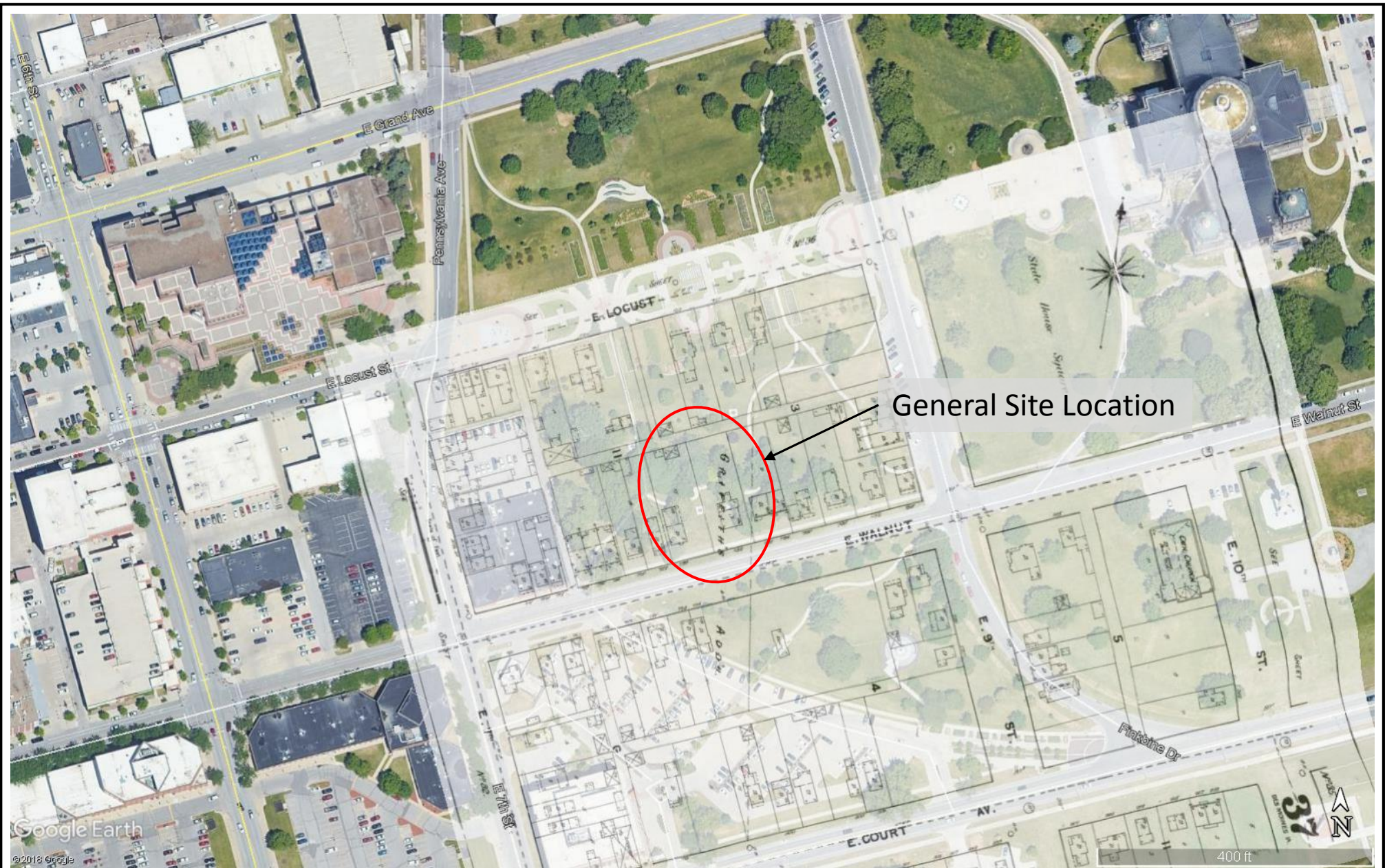


**Iowa State Capitol West Terrace Biocells
E Walnut Street
Des Moines, Iowa**

**Proposed Conceptual Plan
Prepared by
LT Leon & Associates**

PN 171246A

Site Plan



This plan is intended to show the approximate Sanborn Map overlay.

ALLENDER BUTZKE ENGINEERS INC.

3660 - 109th Street
Urbandale, IA 50322

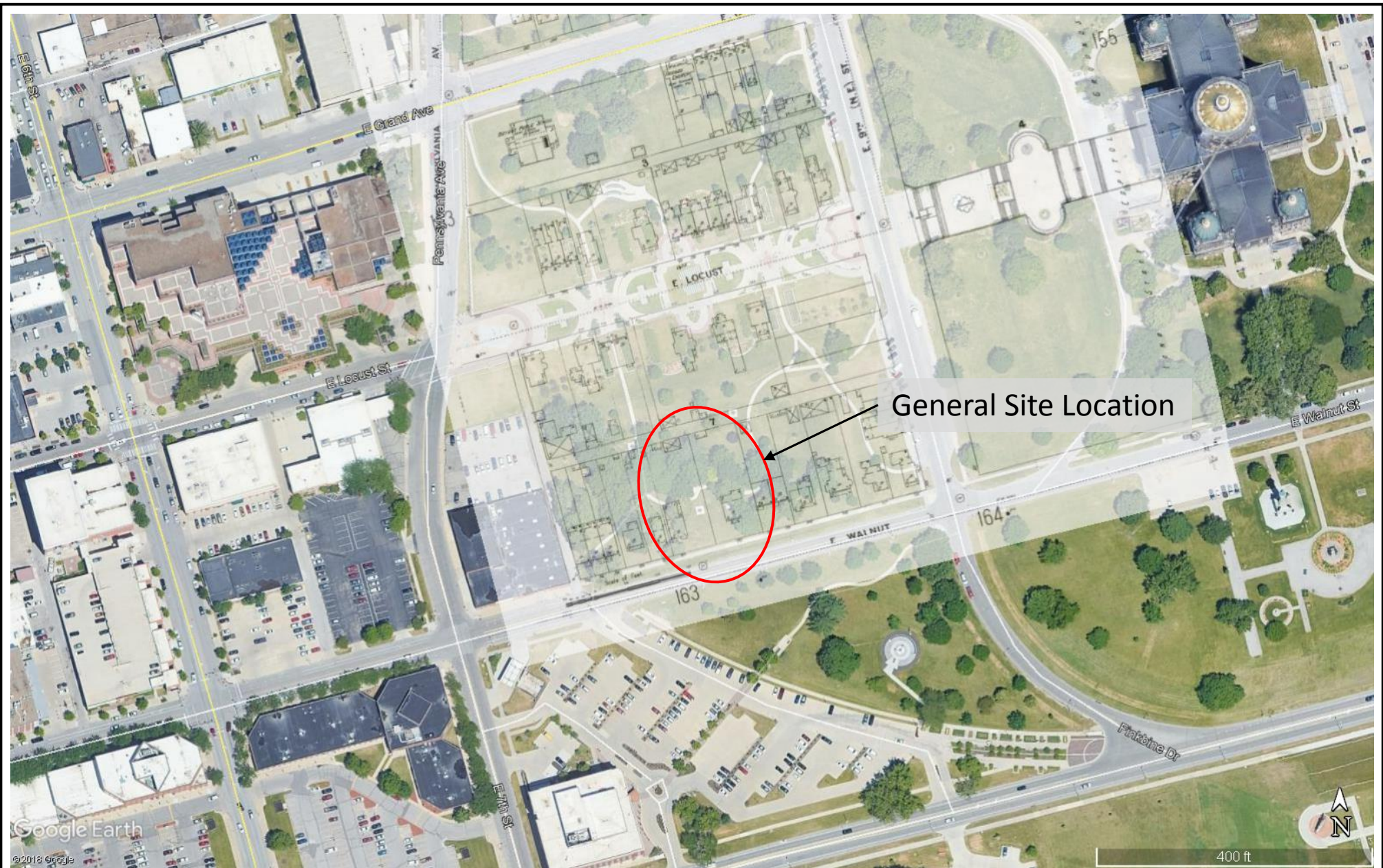


Iowa State Capitol West Terrace Biocells
E Walnut Street
Des Moines, Iowa

1891 Sanborn Map
On
Google Earth Aerial

PN 171246A

Site Maps



This plan is intended to show the approximate Sanborn Map overlay.

ALLENDER BUTZKE ENGINEERS INC.

3660 - 109th Street
Urbandale, IA 50322



Iowa State Capitol West Terrace Biocells

E Walnut Street
Des Moines, Iowa

**1901 Sanborn Map
On
Google Earth Aerial**

PN 171246A

Site Maps

NOTES

SECTION 00 3113

PRELIMINARY SCHEDULE

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Preliminary Construction Schedule
- B. Schedule Durations

1.02 PRELIMINARY SCHEDULE

- A. A preliminary schedule has been identified by the Owner for the implementation of the Project. Refer to the schedule following this Section for references to anticipated milestones and construction duration.
- B. Each step of the Preliminary Schedule is subject to receipt of acceptable bids, Owner's decision process and date of commencement.
- C. A proposed construction schedule shall be submitted by all Trade Contractors to the Construction Manager no later than 48 hours prior to the pre-construction meeting. A revised Construction Schedule will be submitted by the Construction Manager once all preliminary schedules are reviewed and approved by the Owner.
- D. The final construction schedule will be established post award of bids with the cooperation of all contractors.

1.03 SCHEDULE DURATIONS

- A. Anticipated Notice of Intent to Award – 08/30/19
- B. Anticipated Date of Commencement – 09/16/19
- C. Bid Package #01 Substantial Completion by – 11/08/19
- D. Bid Package #02 Substantial Completion by – 5/20/20

PART 2 - PRODUCTS – NOT USED

PART 3 - EXECUTION – NOT USED

END OF SECTION

[illegible]

SECTION 00 4116

BID FORM

RFB #17-ESDWQBSKONR-0001

BID FORM for CONSTRUCTION CONTRACT
for
Capitol Complex
Des Moines, Iowa 50319
Project 9113.00

Iowa Department of Administrative Services
GSE-Central Procurement Bureau
Hoover State Office Building, Level 3
1305 East Walnut Street
Des Moines, Iowa 50319-0105

The following documents are to be completed and submitted with your bid.

1. Bid Proposal Form (Required)
2. Non Discrimination Clause Form
3. Contractor Targeted Small Business Enterprise Pre-Bid Contract Information Form
4. Bid Security – 5% of total Bid amount (Is to be submit in separate envelope) (Required)

Authorized Representative:

The undersigned Bidder, in response to your Request for Bid for construction of the above project, having examined the Drawings, Specifications, and other Bidding Documents dated September 14th, 2018 and Addenda issued and acknowledged below as received and being familiar with all the conditions surrounding the construction of the proposed project including the availability of materials and labor, hereby proposes to furnish all labor, materials, equipment and supplies to perform all work to construct the project in strict accordance with the proposed Contract Documents, within the time and at the prices stated below. Prices are to cover all expenses incurred in performing the work required under the proposed Contract Documents, of which this bid is a part.

Bidder acknowledges receipt of the following Addenda which are a part of the Bidding Documents and for which any effect on cost of the Work is included in the bid amounts indicated:

Number _____ _____ _____ _____ _____

Dated _____ _____ _____ _____ _____

Note that the State of Iowa is exempt from State and Local sales and use taxes (including local option and school option) for this project. Taxes on construction materials shall NOT be included in the bid amounts.

Amounts shall be indicated in both words and figures. In case of discrepancy, the amount indicated in words shall govern.

BID PACKAGES:

BP 01 – SITEWORK

Description: All demo, sitework, utilities, and paving as indicated in the project documents.

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars

(\$_____).

BP 02 - LANDSCAPING

Description: Planting, seeding, and required watering/maintenance as indicated in the project documents.

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars

(\$_____).

BP 03 – Combined Bid

Description: Combined Bid

Combined scope of bid packages 1 and 2 resulting in complete scope of work for those packages.

Bidder proposes and agrees to perform all work as described in the Construction Documents for the sum of:

_____ Dollars

(\$_____).

Bidder hereby certifies that:

1. This bid is genuine and is not made in the interest of or on behalf of any undisclosed person, firm or corporation;
2. Bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid; Bidder has not solicited or induced any person, firm or corporation to refrain from bidding;

and Bidder has not sought by collusion to obtain any advantage over any other bidder or over the Owner.

3. Bidder hereby certifies that the Bidder is registered with the Iowa Labor Commissioner as a Contractor as required by Chapter 91C, Code of Iowa.
4. Bidder agrees to comply with all Federal and State Affirmative Action/Equal Employment Opportunity requirements concerning fair employment and will not discriminate between or among them by reason of race, color, religion, sex, national origin or physical handicap.
5. All construction under this Contract shall conform to the requirements of the *Iowa State Building Code*.
6. Bidder agrees that this bid shall remain valid and shall not be withdrawn for a period of thirty (30) calendar days after the date for receipt of bids.
7. Bidder agrees that if written notice of acceptance of this bid is mailed, emailed, or delivered to the undersigned within thirty (30) days after the date in which bids are due, or at any time thereafter before it is withdrawn, the undersigned will sign and return the Contract Agreement, prepared in accord with the Bidding Documents and this bid as accepted; and will also provide proof of insurance coverage and required surety bonds.
8. Bidder understands that the Owner reserves the right to reject any and all bids, and to waive irregularities or informalities and enter into a contract for the work, as the Owner deems to be in the best interest of the State.
9. Bidder understands that the Owner reserves the right to accept any, or no, Alternate Bid, if requested, and that the Alternate Bids may be considered in any order or combination, and the low Bidder shall be determined on the basis of the sum of the base bid and any Alternate(s) accepted.

Subcontractors:

The Trade Contractor must identify all Subcontractors and Suppliers within 48 hours of the published date and time for which bids must be submitted, in accordance with Iowa Code Section 8A311, as amended by House File 646 in 2011. Subcontractors and suppliers may not be changed without the approval of the Owner. Requests for changing a Subcontractor or supplier must identify the reason for the proposed change, the name of the new Subcontractor or supplier, and the change in the subcontractor or supplier price as a result of the change. Any reduction in subcontractor or supplier price as a result of the change, if the change is approved by the Owner, shall be deducted from the Trade Contract Price via a deductive Change Order. Any such changes, if approved by the Owner, which result in an increase in the Trade Contract Price shall be borne by the Trade Contractor.

Enforcement of Reciprocal Resident Bidder Preference, per Iowa Code 73A.21.

All bidders shall either check the box next to "Resident Bidder" or check the box next to "Nonresident Bidder" and by doing so and signing thereafter certifies and attests to the same. All information requested must be provided. Seek out the advice of an attorney if you have questions.

"Resident Bidder" means a person or entity authorized to transact business in of the State of Iowa and having a place of business for transacting business within the State of Iowa at which it is conducting and has conducted business for at least three years prior to the date of the first advertisement for the public improvement. Note, however, that if a nonresident bidder's state or foreign country has a more stringent definition of a resident bidder, the more stringent definition is applicable as to bidders from that state or foreign country.

Resident Bidder

☐

Name of Resident Bidder: _____

By: _____

Authorized Agent and Signatory of Resident Bidder

OR:

Nonresident Bidder

☐

Name of Nonresident Bidder: _____

Name of State or Foreign Country of Nonresident Bidder: _____

Particularly identify and describe any preference, labor preference, or any other type of preferential treatment, in effect in the nonresident bidder's state or foreign country at the time of this bid:

NOTICE: Nonresident Bidders domiciled in a state or country with a resident labor force preference shall make and keep, for a period of not less than three years, accurate records of all workers employed on the public improvement. The records shall include each worker's name, address, telephone number when available, social security number, trade classification, and the starting ending time of employment.

By: _____
Authorized Agent and Signatory of Nonresident Bidder

Bid Form shall be signed by an officer of the company with authority to bind in a contract. Notice of acceptance of this bid, or request for additional information by the Department of Administrative Services, may be addressed to the undersigned at the address set forth below:

Legal Name of Firm: _____

Date: _____

Signature of Bidder: _____

Title: _____

Typed Name of Signatory: _____

Email: _____

Business Address:

Telephone Number: _____ Fax Number: _____

Federal Tax Identification Number: _____

Iowa Contractor Registration Number: _____

Bidder Safety Manager Name: _____

For an out-of-state Bidder, Bidder certifies that the Resident Preference given by the State or Foreign Country of Bidder's residence, _____, is _____ %.

END OF SECTION