



Agenda Item Number: R89-14

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: May 5, 2014

Re: Amendment 1 to Engineering Services Agreement with Allstate Consultants, LLC for the Upper Hinkson Creek Outfall Sewer Extension, Phase I Project

Documents Included With This Agenda Item

Council memo, Resolution/Ordinance, Exhibits to Resolution/Ordinance
Supporting documentation includes: Maps

Executive Summary

Authorizing the City Manager to execute Amendment No. 1 with Allstate Consultants, LLC for the design of the Upper Hinkson Creek Outfall Sewer Extension project. The total not-to-exceed amount of the amendment is \$77,000 which brings the total not-to-exceed amount of the agreement to \$363,136.

Discussion

The original scope of services consists of the consultant providing final construction plans, specifications, and easement descriptions necessary to construct the Upper Hinkson Creek Outfall Sewer Extension Phase I project. An amendment to the agreement is required to complete additional services as outlined below.

- Adds 4,000 ft of gravity sewer line to the project: The design scope of services included 27,000 linear ft of gravity sewer line which was based upon preliminary diagrams and alignments developed by staff. After final detailed survey and design, the project actually has 31,000 ft of gravity sewer, which includes additional length on Waco Road and 1,000 ft of proposed gravity sewer line to the Landfill to eliminate the sewer pump station. The additional footage in sewer resulted in more survey work and design effort.
- Revises plans to remove two sections from the base bid contract, and creates alternates for these sections: Since the two sections of sewer are not critical to the project, staff desires to bid these two sections as alternates which can then be constructed with the project, or deferred to a later date based upon the bid prices received.
- Adds a stream stabilization project along Hinkson Creek on the City's Landfill property: A section of the Hinkson Creek on the City's Landfill property is unstable, actively eroding the creek bank and moving towards the landfill operation. The stream stabilization is necessary to protect the proposed Hinkson Creek sewer line, and a proposed wetlands, that the Solid Waste Utility wishes to construct in the future.



- This project involves constructing a new sewer line along Waco Road to pick-up wastewater flow from Columbia Foods: This proposed sewer line will be constructed between two existing lakes that were created when this property was mined for coal many years ago. During the design process it was discovered that the two lakes are connected with a corrugated metal pipe (CMP). The bottom of some of the CMP is rusted through and must be replaced as part of the project. Design efforts associated with replacing this CMP is included in the amendment.
- A gravity sewer line to eliminate the Landfill's sewer pump station: Over the past few years, the Landfill's sewer pump station has had operational issues (force main breaks, power outages and pump failures). Given the ongoing issues, and two Notice of Violations received from DNR, a gravity sewer line is proposed.

Fiscal Impact

Short-Term Impact: The total cost of the engineering contract will be \$363,136 (original scope of services is \$286,136, plus amendment of \$77,000), which is within usual and customary guidelines for this type of work. The project will be funded from Sanitary Sewer Utility funds that have been previously appropriated to the project.

Long-Term Impact: The current construction cost estimate for this project is \$7,500,000, which will be funded by the 2008 sewer ballot.

Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Environment

Strategic Plan Impact: Customer Focused Government, Infrastructure

Comprehensive Plan Impact: Environmental Management, Infrastructure

Suggested Council Action

Approve the legislation authorizing the City Manager to execute the amendment with Allstate Consultants, LLC.

Legislative History

02/06/12 - Property Acquisition

02/21/11 - Easement Acquisition

10/25/10 - Authority to request SRF funding from DNR

09/07/10 - Public Hearing

04/06/09 - Engineering Services Agreement with Allstate Consultants

City of Columbia

701 East Broadway, Columbia, Missouri 65201



John D. Elmer

Department Approved

Mike Matt

City Manager Approved

Introduced by _____ Council Bill No. R 89-14

A RESOLUTION

authorizing Amendment No. 1 to the agreement with Allstate Consultants, LLC for engineering services relating to the design and construction of the Upper Hinkson Creek Outfall Sewer Extension Phase I Project.

BE IT RESOLVED BY THE COUNCIL OF THE CITY OF COLUMBIA, MISSOURI, AS FOLLOWS:

SECTION 1. The City Manager is hereby authorized to execute Amendment No. 1 to the agreement with Allstate Consultants, LLC for engineering services relating to the design and construction of the Upper Hinkson Creek Outfall Sewer Extension Phase I Project. The form and content of the agreement shall be substantially as set forth in "Exhibit A" attached hereto and made a part hereof.

ADOPTED this _____ day of _____, 2014.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor

**AMENDMENT NO. 1
TO
AGREEMENT BETWEEN THE CITY OF COLUMBIA, MISSOURI
AND ALLSTATE CONSULTANTS, LLC.**

**SANITARY SEWER UTILITY
UPPER HINKSON CREEK OUTFALL SEWER EXTENSION, PHASE I
COLUMBIA, MISSOURI**

THIS AMENDMENT NO. 1 made as of _____ day of _____, 2014 modifies the Agreement between the City of Columbia, Missouri (CITY) and Allstate Consultants, LLC., (ENGINEER) dated April 10, 2009 (Agreement).

1. ENGINEER shall provide engineering services in connection with the Upper Hinkson Creek Outfall Sewer Extension, Phase I project; and
2. ENGINEER shall perform additional engineering services required due to several items that were not in the original scope of services summarized as follows: 4000 feet of sewer line was added to project; two sections of sewer were removed from the base bid and alternatives were created for these sections: stream stabilization added to protect the sewer line and a proposed landfill wetlands project; and replace an outfall pipe through the dam of the lake just east of the end of Waco Road; and
3. CITY shall pay ENGINEER a fee not to exceed Seventy Seven Thousand dollars (\$77,000.00) for the additional services; and
4. The terms and conditions of the Agreement are modified as specifically set forth herein. All other provisions of the Agreement, to the extent not inconsistent with this Amendment, remain in full force and effect.

[SIGNATURE PAGE FOLLOWS]

IN WITNESS WHEREOF, CITY and ENGINEER have executed this Amendment No. 1 on the day and year first above written.

CITY OF COLUMBIA, MISSOURI

By: _____
Mike Matthes, City Manager

ATTEST:

Sheela Amin, City Clerk

APPROVED AS TO FORM:

Nancy Thompson, City Counselor

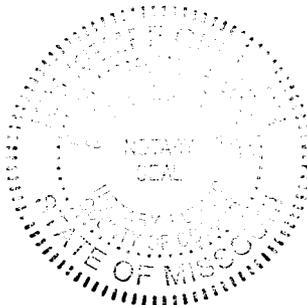
ALLSTATE CONSULTANTS, LLC.

By: 

Ron C. Shy, President

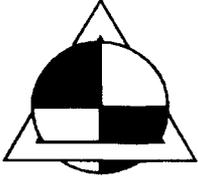
ATTEST:

Kim Kempf Gerlach
Kim Kempf Gerlach



CERTIFICATION: I hereby certify that this contract is within the purpose of the appropriation to which it is to be charged, Account No. 555-6388-881.40-23, C43213, and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor.

John Blattel, Director of Finance



ALLSTATE
CONSULTANTS

ENGINEERING • PLANNING • SURVEYING • GEOTECHNICAL • INVESTIGATIVE

March 21, 2014
Revised: April 9, 2014

Mr. Pat Fitzgerald, PE
City of Columbia Public Works
701 East Broadway
Columbia, MO 65205

Re: Upper Hinkson Creek Outfall Sewer Extension Phase 1 Design Addendum #1

Mr. Fitzgerald,

Please find attached to this letter our proposed Scope of Services and supporting documentation for Addendum #1 to the contract. As you know, we are nearing the completion of the project and believe that the Addendum Scope of Services is necessary to address additional items that were not in the original scope of services. These items can be summarized as follows:

- Adds 4000 feet of gravity sewer line to the project.
- Revises plans to remove two sections from the base bid contract and creates alternates for these sections.
- Adds a stream stabilization project to protect the future sanitary sewer line and a proposed wetlands project from movement of Hinkson Creek.
- Replaces an outfall pipe through the dam of the lake just east of the existing end of Waco Road.
- Eliminates the Sanitary Sewer Pump Station at the Columbia Sanitary Land Fill.

We propose to perform this work based for an hourly Not to Exceed Fee of \$77,000 based on the attached rate schedule and estimate spreadsheet.

Please review this information and let us know if you have any questions.

Sincerely,

Allstate Consultants LLC


Ron Shy, PE
President

SCOPE OF SERVICES (Revised 4/9/14)

UPPER HINKSON CREEK OUTFALL SEWER EXTENSION PHASE 1 DESIGN ADDENDUM 1

PROJECT DESCRIPTION

This project involves providing the necessary professional survey and design services to develop the construction documents for the Upper Hinkson Creek Outfall Sewer Extension Phase 1 Project. The original project scope included up to 27,000 feet of gravity sewer. This addendum would increase the total designed length to approximately 31,000 feet (including two design alternates near the north end of the project) as well as address additional design items for a stream stabilization project along Hinkson Creek near Brundage Road and the reconstruction of an outfall pipe near the existing end of Waco Road.

SECTION 1 STREAM STABILIZATION

The attached Google Earth Displays show a section of Hinkson Creek on City of Columbia property that has significantly moved over the past few years. This location is approximately 1000' south of Brundage Road. This addendum would provide the design and analysis necessary for a stream stabilization project covering approximately 400' of stream length. This project is necessary to protect the proposed sanitary sewer from further movements of the stream banks.

SECTION 2 LAKE OUTFALL PIPE RECONSTRUCTION

During the design of the project it was discovered that the outfall pipe for the lake near the end of Waco Road has rusted and partially collapsed. This pipe will be crossed during the construction of the sewer line and will be replaced during the construction of this project to assure the future integrity of the sanitary sewer and the lake dam.

SECTION 3 DESIGN CHANGES AND ALTERNATES

The original design contract specified the design of up to 27,000 feet of gravity sewer line. The project as planned now (including alternates) is approximately 31,000. This section includes the time for the additional length of sewer and revising previously designed sections into alternates as well as elimination of the sanitary sewer pump station serving the Columbia Sanitary Land Fill.

Allstate Consultants LLC
 3312 LeMone Industrial Blvd.
 Columbia, MO 65201
 573-875-8799

Task Group Description	Principal		Engineer III		Technician III		Technician I		Crew (2 Man)		Expenses		TOTAL	
	20-Mar-14	Total @ \$135.00	Hours	Total @ \$125.00	Hours	Total @ \$75.00	Hours	Total @ \$40.00	Hours	Total @ \$135.00	Actual	Total @ 100%		
Task Group Add1-A - Civil Administration														
Add1-A1 Project Administration			4	\$540.00	20	\$2,500.00		\$0.00	5	\$200.00		\$0.00	\$0.00	\$3,240.00
Subtotal			8	\$540.00	60	\$2,500.00	0	\$0.00	5	\$200.00	0	\$0.00	\$0.00	\$3,240.00
Task Group Add1-B - Stream Stabilization														
Add1-B1 Survey		\$0.00			1	\$125.00		\$0.00		\$0.00	16	\$2,160.00	\$0.00	\$2,285.00
Add1-B2 Hydrologic Calculations		\$0.00			16	\$2,000.00		\$0.00		\$0.00		\$0.00	\$0.00	\$2,000.00
Add1-B3 Design		\$540.00	4	\$540.00	60	\$7,500.00		\$0.00		\$0.00		\$0.00	\$0.00	\$8,040.00
Add1-B4 FEMA Modeling and No-Rise Certification		\$0.00			60	\$7,500.00		\$0.00		\$0.00		\$0.00	\$0.00	\$7,500.00
Add1-B5 Plans and Technical Specifications		\$540.00	4	\$540.00	22	\$4,000.00	16	\$1,200.00		\$0.00		\$0.00	\$0.00	\$5,740.00
<i>This scope assumes the following: The selected design includes approximately 400' of streambank protection and 0.5 acres of riparian buffer establishment The project purpose is to leave the stream alignment as it currently is except as needed to configure the protection. In other words, the intent is not to relocate the stream but to stabilize it. The Corps of Engineers allows the use of a nationwide 404 permit as opposed to an individual one. The project is in a FEMA floodway and a no-rise certificate will be required The adjacent wetland plans will be available for our consideration</i>														
Subtotal		\$1,080.00	8	\$1,080.00	169	\$21,125.00	16	\$1,200.00	0	\$0.00	16	\$2,160.00	\$0.00	\$25,565.00
Task Group Add1-C - Reconstruct Lake Outfall Pipe (near end of Waco)														
Add1-C1 Survey		\$0.00			1	\$125.00		\$0.00		\$0.00	4	\$540.00	\$0.00	\$665.00
Add1-C2 Hydraulic Review		\$135.00	1	\$135.00	8	\$1,000.00		\$0.00		\$0.00		\$0.00	\$0.00	\$1,135.00
Add1-C3 Plans and Technical Specifications		\$540.00	4	\$540.00	16	\$2,000.00	30	\$2,250.00		\$0.00		\$0.00	\$0.00	\$4,790.00
Subtotal		\$675.00	5	\$675.00	25	\$3,125.00	30	\$2,250.00	0	\$544.00	4	\$540.00	\$450.00	\$6,590.00
Task Group Add1-D - Design Changes and Alternates														
Add1-D1 Additional 4000 feet of sewer design (includes Ewing Alternate and Line D Ai		\$540.00	4	\$540.00	120	\$15,000.00	120	\$9,000.00		\$0.00		\$0.00	\$0.00	\$24,540.00
Add1-D2 Ewing Pump Station Removal Plans and Technical Specifications		\$540.00	4	\$540.00	32	\$4,000.00	24	\$1,800.00		\$0.00		\$0.00	\$0.00	\$6,340.00
Add1-D3 Land Fill Pump Station Removal Plans and Gravity Extension		\$540.00	4	\$540.00	40	\$5,000.00	40	\$3,000.00		\$0.00	\$16.00	\$2,160.00	\$0.00	\$10,700.00
Subtotal		\$1,620.00	12	\$1,620.00	192	\$24,000.00	184	\$13,800.00	0	\$0.00	16	\$2,160.00	\$0.00	\$41,580.00
TOTALS		\$3,915.00	33	\$3,915.00	446	\$50,750.00	230	\$17,250.00	5	\$744.00	36	\$4,860.00	\$0.00	\$76,975.00



Google Earth Pro

feet
meters

600

200





Google Earth Pro

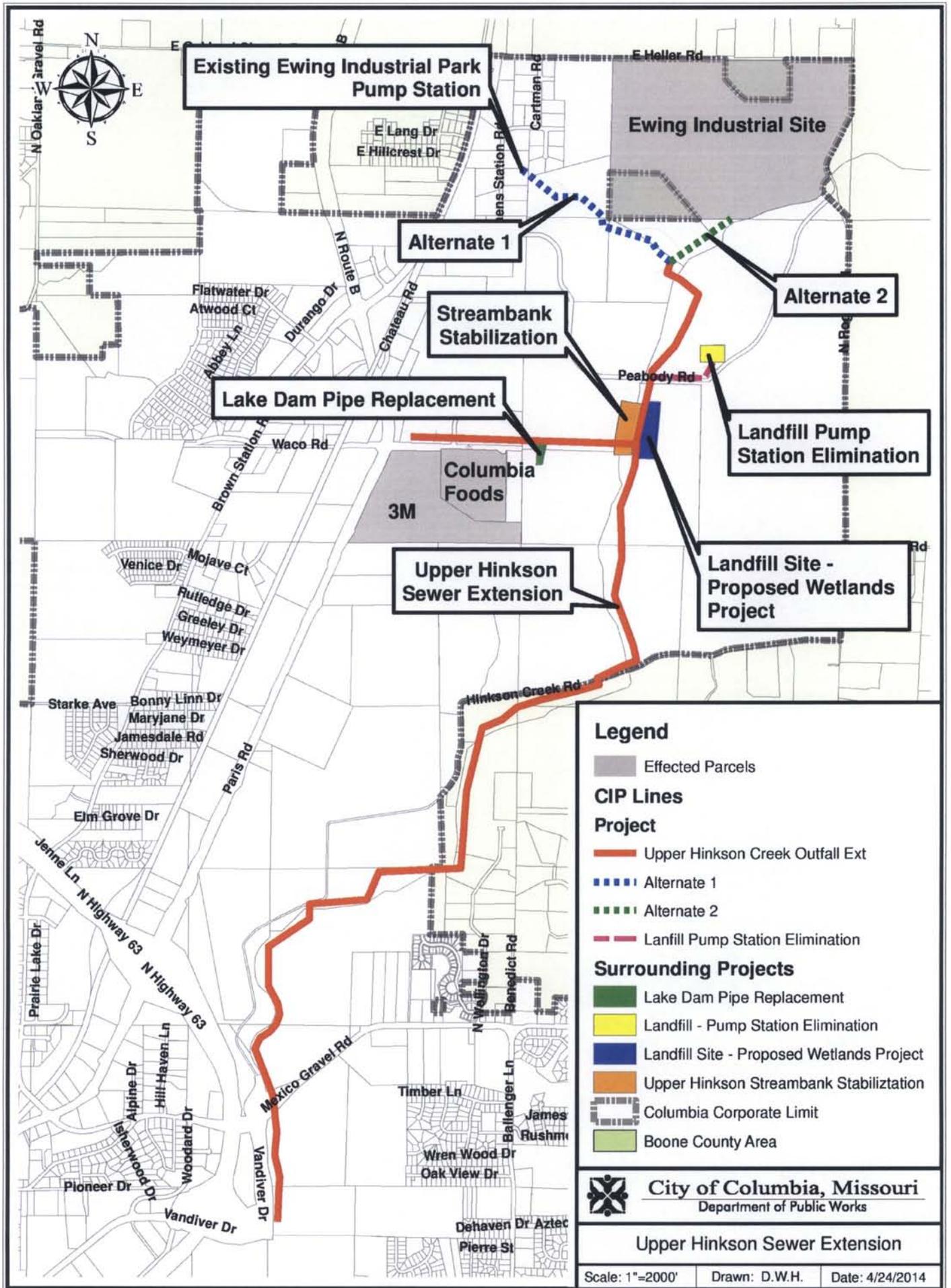
feet
meters





SUPPORTING DOCUMENTS INCLUDED WITH THIS AGENDA ITEM ARE AS FOLLOWS:

Maps



Existing Ewing Industrial Park Pump Station

Ewing Industrial Site

Alternate 1

Alternate 2

Streambank Stabilization

Lake Dam Pipe Replacement

Landfill Pump Station Elimination

Columbia Foods 3M

Upper Hinkson Sewer Extension

Landfill Site - Proposed Wetlands Project

Legend

- Effected Parcels
- CIP Lines**
- Project**
- Upper Hinkson Creek Outfall Ext
- Alternate 1
- Alternate 2
- Lanfill Pump Station Elimination
- Surrounding Projects**
- Lake Dam Pipe Replacement
- Landfill - Pump Station Elimination
- Landfill Site - Proposed Wetlands Project
- Upper Hinkson Streambank Stabilization
- Columbia Corporate Limit
- Boone County Area



City of Columbia, Missouri
Department of Public Works

Upper Hinkson Sewer Extension