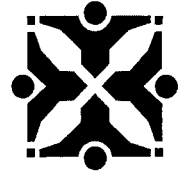


City of Columbia

701 East Broadway, Columbia, Missouri 65201



Agenda Item Number: R 160-15

Department Source: Public Works

To: City Council

From: City Manager & Staff

Council Meeting Date: 10/5/2015

Re: Supplemental Agreements No. 1 and No. 2 with CDG Engineers for the Clark Lane West and Hinkson Creek Trail Project

Documents Included With This Agenda Item

Council memo, Resolution/Ordinance, Exhibits to Resolution/Ordinance

Supporting documentation includes: Map

Executive Summary

Authorizing the City Manager to execute Supplemental Agreements No. 1 and No. 2 to the professional engineering services agreement with CDG Engineers for additional services relating to the Clark Lane West and Hinkson Creek Trail (GetAbout) project. These additional services include preparation of a FEMA analysis, and sidewalk design along a section of Clark Lane.

Discussion

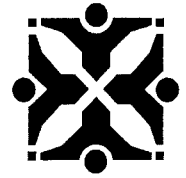
On September 2, 2014, Council adopted Resolution 166-14 authorizing a professional engineering services agreement with CDG Engineers, Inc. for design services relating to the construction of pedway, trail, and shoulder improvements along Clark Lane between Paris Road and the east side of the Highway 63 Connector, and south along Hinkson Creek between Clark Lane and the south side of I-70. This project is funded by the Non-Motorized Transportation (GetAbout) grant. Staff is recommending approval of two supplemental agreements as follows:

Supplemental Agreement No. 1 is for the preparation of a FEMA NFIP Conditional Letter of Map Revision (CLOMR) on the Hinkson Creek. The CLOMR is required due to the resulting rise of the stream for a 100-year flood event as a result of the proposed trail design. This supplemental agreement is for a not to exceed amount of \$22,198.59 and will be paid by GetAbout grant funds.

Supplemental Agreement No. 2 is for the design of an 8 ft wide sidewalk on a section of shoulder on Clark Lane (see attached map). This proposed sidewalk was not originally part of the scope, but due to MoDOT ADA requirements the sidewalk must be added. This project is for a not to exceed amount of \$5,088 and will be paid with the 0.25% Capital Improvements Sales Tax. This additional work is not eligible for GetAbout grant funding.

City of Columbia

701 East Broadway, Columbia, Missouri 65201



Fiscal Impact

Short-Term Impact: Supplemental agreement #1 is for a not to exceed amount of \$22,199 and will be paid by GetAbout grant funds. Supplemental agreement #2 is for a not to exceed amount of \$5,088 and will be funded by 0.25% Capital Improvements Sales Tax.

Long-Term Impact: None

Vision, Strategic & Comprehensive Plan Impact

Vision Impact: Environment, Parks, Recreation and Greenways, Transportation

Strategic Plan Impact: Infrastructure...Connecting the Community

Comprehensive Plan Impact: Environmental Management

Suggested Council Action

Authorizing the City Manager to execute Supplemental Agreements No. 1 and No. 2 with CDG Engineers for the Clark Lane West and Hinkson Creek Trail project.

Legislative History

09/08/15 - (R123-15) Public Hearing

02/11/15 - IP Meeting

09/02/14 - (R166-14) Professional Engineering Services Agreement with CDG Engineers, Inc.

09/03/13 - (R134-13) Non-Motorized Transportation (Get About) Project Prioritization

10/25/12 - Parks & Recreation Commission presentation

10/23/12 - Environment & Energy Commission presentation

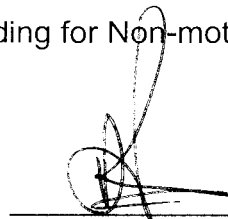
10/17/12 - Bicycle & Pedestrian Commission presentation

10/11/12 - Disabilities Commission presentation

10/01/12 - (R152-12) Additional Federal Grant Funding for Non-motorized Transportation Projects



Department Approved



City Manager Approved

Introduced by _____ Council Bill No. R 160-15

A RESOLUTION

authorizing Supplemental Agreements No. 1 and 2 to the professional engineering services agreement with CDG Engineers, Inc. for design services for construction of pedway, trail and shoulder improvements along Clark Lane between Paris Road and the east side of the Highway 63 Connector, and south along Hinkson Creek between Clark Lane and the south side of I-70.

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

SECTION 1. The City Manager is hereby authorized to execute Supplemental Agreement No. 1 to the professional engineering services agreement with CDG Engineers, Inc. for design services for construction of pedway, trail and shoulder improvements along Clark Lane between Paris Road and the east side of the Highway 63 Connector, and south along Hinkson Creek between Clark Lane and the south side of I-70. This supplemental agreement allows for the preparation of a FEMA NFIP Conditional Letter of Map Revision (CLOMR) on the Hinkson Creek. The form and content of the supplemental agreement shall be substantially as set forth in "Exhibit A" attached hereto and made a part hereof.

SECTION 1. The City Manager is hereby authorized to execute Supplemental Agreement No. 2 to the professional engineering services agreement with CDG Engineers, Inc. for design services for construction of pedway, trail and shoulder improvements along Clark Lane between Paris Road and the east side of the Highway 63 Connector, and south along Hinkson Creek between Clark Lane and the south side of I-70. This supplemental agreement allows for the design of an eight-foot sidewalk on a section of shoulder along Clark Lane. The form and content of the supplemental agreement shall be substantially as set forth in "Exhibit B" attached hereto and made a part hereof.

ADOPTED this _____ day of _____, 2015.

ATTEST:

City Clerk

Mayor and Presiding Officer

APPROVED AS TO FORM:

City Counselor

**SUPPLEMENTAL AGREEMENT NO. 1
TO
ENGINEERING SERVICES CONTRACT**

This Supplemental Agreement is made part of an agreement dated September 8th, 2014 between the City of Columbia, Missouri and CDG Engineers, Inc. for design and construction inspection of project CPP-9999(521). The purpose of this Supplemental Agreement is for the preparation of a FEMA NFIP Conditional Letter of Map Revision (CLOMR) on Hinkson Creek because of the resulting rise of the stream for a 100-year flood event due to the proposed designed trail. These additional services shall be in an amount not to exceed Twenty-two Thousand One Hundred Ninety-eight Dollars and Fifty-nine Cents (\$22,198.59) without further authorization. The total design phase services shall be in an amount not to exceed Two Hundred Forty-nine Thousand Six Hundred Forty-six Dollars and Fifty-two Cents (\$249,646.52). Attachment A outlines the cost breakdown for this Supplemental Agreement.

Supplement Agreement No. 1 accepted as defined herein:

OWNER: _____

ENGINEER: CDG Engineers Inc.

BY: _____

BY: Greg E. Bunkert

TITLE: _____

TITLE: Vice President

DATE: _____

DATE: 9/1/2015

ATTEST:

BY: _____

BY: Joseph M. McElhiney

TITLE: _____

TITLE: Project Manager

DATE: _____

DATE: 9/1/2015

Executed by the City/County on the ____ day of ____, 20__.

CLARK LANE WEST & HINKSON CREEK PROJECT

I hereby certify that the above expenditure is within the purpose of the appropriation to which it is charged, Account No. 440-8800-548.40-23, C00570, and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor.

By _____

John Blattel, Director of Finance

ATTACHMENT A
SUPPLEMENTAL AGREEMENT NO. 1
July 2, 2015

DESIGN Phase Services (Additional):

| | <u>Hours</u> | <u>Rate</u> | <u>Cost</u> |
|---|--------------|-------------|--------------|
| Principal | 2 | \$52.52 | \$105.04 |
| Project Manager | 50 | \$44.95 | \$2,247.50 |
| Project Engineer | 72 | \$34.80 | \$2,505.60 |
| Administration | 30 | \$24.41 | \$732.30 |
| Subtotal | | | \$5,590.44 |
| Payroll Overhead (est. at 57.404%) | | | \$3,209.14 |
| General and Administrative Overhead (est. at 87.181%) | | | \$4,873.80 |
| Subtotal | | | \$13,673.38 |
| Fixed Fee (12.00%) | | | \$1,640.81 |
| Subtotal | | | \$15,314.19 |
| Other Direct Costs | | | |
| Mileage, etc | | | \$134.40 |
| FEMA CLOMR Review Fee | | | \$6,750.00 |
| Subtotal | | | \$6,884.40 |
| Total Supplemental Agreement No. 1 | | | \$22,198.59 |
| Summary Design Phase: | | | |
| Original Agreement | | | \$227,447.93 |
| Supplemental Agreement | | | \$22,198.59 |
| Total | | | \$249,646.52 |

City of Columbia
Clark Lane West & Hinkson Creek
Pedway Trail



By: JFM
Print Date: 2-Jul-15
Print Time: 2:16 PM

CDG Proposal No. P14016.05 Revision: 0 Project Management/Contract Mgmt(P14016.05 City of Columbia - S.A. 1 CLOMR Fee-Man-hour Estimate (2015-07-02).xls)Fee Estimate
SA # 1 - CLOMR Preparation & Submittal to FEMA Revision Date: 26-Jun-15

| ITEM | PRINCIPAL | PROJECT MANAGER | SENIOR ENGINEER | PROJECT ENGINEER | DESIGN ENGINEER | TECHNICIAN | ADMIN. | SUBTOTAL HOURS | SUBTOTAL \$\$\$ |
|---|-----------------|--------------------|--------------------|---------------------|--------------------|---------------|-----------------|-------------------|--------------------|
| 5 CLOMR APPLICATION TO FEMA | | | | | | | | | |
| 1. MT-EZ Forms | | 6 | | 40 | | | | 46 | \$1,661.70 |
| a. Overview & Concurrence Form | | | | | | | | | |
| b. Riverine Hydrology & Hydraulics Form | | | | | | | | | |
| c. Riverine Structures Form | | | | | | | | | |
| 2. ESA Compliance Documentation | | 16 | | 12 | | | | 28 | \$1,136.80 |
| Includes 1 Mtg. with Mo. Fish & Wildlife | | | | | | | | | |
| (Assumes No Bat tree survey or summer | | | | | | | | | |
| habitat study required at this time) | | | | | | | | | |
| 3. Prepare Report | 1 | 20 | | 20 | | | 10 | 51 | \$1,891.62 |
| 1. Application Forms | | | | | | | | | |
| 2. Narrative Description | | | | | | | | | |
| 3. Hydrologic Computations | | | | | | | | | |
| 4. Hydraulic Computations | | | | | | | | | |
| 5. Certified Topo w/floodplain & floodway | | | | | | | | | |
| 6. Annotated DHS-FEMA FIRM | | | | | | | | | |
| 7. Items req'd. for DHS-FEMA NFIP requirements | | | | | | | | | |
| 8. Review Fee Payment | | | | | | | | | |
| 9. ESA compliance documentation | | | | | | | | | |
| 4. Public Notice Letter - on city letterhead | 1 | 8 | | | | | 20 | 29 | \$900.32 |
| to all affected property owners in and outside | | | | | | | | | |
| of the community explaining proposed | | | | | | | | | |
| action on their property. | | | | | | | | | |
| Hours | 2 | 50 | 0 | 72 | 0 | 0 | 30 | 154 | |
| Average Hourly Rate | \$52.52 | \$44.95 | \$43.36 | \$34.80 | \$26.99 | \$23.67 | \$24.41 | | |
| SUBTOTAL HOURLY FEES | \$105.04 | \$2,247.50 | \$0.00 | \$2,505.60 | \$0.00 | \$0.00 | \$732.30 | \$5,590 | \$5,590 |

**SUPPLEMENTAL AGREEMENT NO. 2
TO
ENGINEERING SERVICES CONTRACT**

This Supplemental Agreement is made part of an agreement dated September 8th, 2014 between the City of Columbia and CDG Engineers, Inc. for design and construction inspection of project CPP-9999(521), Clark Lane and Hinson Creek Trail project. The purpose of this Supplemental Agreement is to design the removal of the asphalt shoulder along Clark Lane, from the Clark Lane Bridge to Business 63 Connector (Sta. 51+00 to Sta. 58+50) and replace with a sidewalk and curb as requested by the City of Columbia. These additional services shall be in an amount not to exceed Five Thousand Eighty-Eight Dollars (\$5,088.00) without further authorization. Attachment A outlines the scope of the project and cost breakdown for this Supplemental Agreement.

IN WITNESS WHEREOF, the parties have caused this amendment to be executed by their duly authorized agents on the day and year first above written.

Supplemental Agreement No. 2 accepted as defined herein:

CITY OF COLUMBIA, MISSOURI

Mike Matthes, City Manager

ATTESTED BY:

By _____
Sheela Amin, City Clerk

APPROVED AS TO FORM:

By _____
Nancy Thompson, City Counselor

I hereby certify that the above expenditure is within the purpose of the appropriation to which it is charged, Account No. 440-8800-548.40-23, C00570, and that there is an unencumbered balance to the credit of such appropriation sufficient to pay therefor.

By _____
John Blattell, Director of Finance

CDG ENGINEERS, INC.

Executed by the City on this ____ day of _____, 2015.

City of Columbia
Clark Lane West & Hinkson Creek
Pedway Trail

Shoulder Replacement with Concrete Vertical
Curb & Sidewalk

CDG Proposal No. P14016.05



Revision: 1
Revision Date: 18-Sep-15

Hinkson Cr Trail\Project Management\Contract Mgmt\2015-09-08 Fee-Man-hour Estimate for Additional Services.xls]Fee Estimate

By: MJC
Print Date: 17-Sep-15
Print Time: 2:22 PM

| ITEM | PRINCIPAL | PROJECT MANAGER | SENIOR ENGINEER | PROJECT ENGINEER | DESIGN ENGINEER | TECHNICIAN | ADMIN. | SUBTOTAL HOURS | SUBTOTAL \$\$\$ |
|---|----------------|--------------------|--------------------|---------------------|--------------------|---------------|----------------|-------------------|--------------------|
| Clark Lane Bridge to Business 63 | | | | | | | | | |
| Project Management | | 2 | | | | | 1 | 3 | \$114.31 |
| Prepare Final Plans | | | | | | | | | |
| Revise Plan and Profile (4 Sheets) | | 1 | | 20 | | | | 21 | \$740.95 |
| Revise Cross Section (4 Sheets) | | | | 8 | | | | 8 | \$278.40 |
| Revise Details (1 sheet) | | | | 4 | | | | 4 | \$139.20 |
| Storm Water Design | | | | | | | | | |
| Storm Water Drainage Area Map | | | | 2 | | | | 2 | \$69.60 |
| Storm Sewer Calculations | | | | 4 | | | | 4 | \$139.20 |
| Storm Sewer Profiles (1 Sheet) | | 1 | | 4 | | | | 5 | \$184.15 |
| Final Cost Estimate | | | | 2 | | | | 2 | \$69.60 |
| Summary Sheets (2A&2B) | | | | 2 | | | | 2 | \$69.60 |
| QA/QC | 1 | | | | | | | 1 | \$52.52 |
| Hours | 1 | 4 | 0 | 46 | 0 | 0 | 1 | 52 | |
| Average Hourly Rate | \$52.52 | \$44.95 | \$43.36 | \$34.80 | \$26.99 | \$24.62 | \$24.41 | | |
| SUBTOTAL HOURLY FEES | \$52.52 | \$179.80 | \$0.00 | \$1,600.80 | \$0.00 | \$0.00 | \$24.41 | \$1,858 | \$1,858 |

City of Columbia
Clark Lane West & Hinkson Creek
Pedway Trail

Shoulder Replacement with Concrete Vertical
Curb & Sidewalk
CDG Proposal No. P14016.05

Revision: 1
Revision Date: 18-Sep-15



Hinkson Cr Trail\Project Management\Contract Mgmt\2015-09-08 Fee-Man-hour Estimate for Additional Services.xls]Fee Estimate

By: MJC
Print Date: 17-Sep-15
Print Time: 2:22 PM

| ITEM | PRINCIPAL | PROJECT MANAGER | SENIOR ENGINEER | PROJECT ENGINEER | DESIGN ENGINEER | TECHNICIAN | ADMIN. | SUBTOTAL HOURS | SUBTOTAL \$\$\$ |
|------|-----------|--------------------|--------------------|---------------------|--------------------|------------|--------|-------------------|--------------------|
|------|-----------|--------------------|--------------------|---------------------|--------------------|------------|--------|-------------------|--------------------|

| EXPENSES | | | | | | | | | | SUBTOTAL |
|---|-----|---|---------|-----------|---|---|--------|---------------------------|--|------------|
| Payroll Overhead (Est. at 57.404%) | | Subtotal Payroll Overhead: | | | | | | | | \$1,066.30 |
| General and Administrative Overhead (Est. at 87.181%) | | Subtotal General and Administrative Overhead: | | | | | | | | \$1,619.41 |
| Fixed Fee (0.12*\$4,543.24) | | Subtotal Fixed Fee: | | | | | | | | \$545.19 |
| Travel Expenses | | # of Trips | | | | | | Subtotal Travel Expenses: | | \$0.00 |
| Meals | 3 | meals a day @ | \$45 | per day | * | 0 | \$0.00 | | | |
| Mileage (private car) | 240 | miles @ | \$0.560 | per mile | * | 0 | \$0.00 | | | |
| Hotel | 2 | rooms @ | \$100 | per night | * | 0 | \$0.00 | | | |
| Miscellaneous Reimbursable Expenses | | Subtotal Miscellaneous Expenses: | | | | | | | | \$0.00 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Sub-Consultant Fees | | Subtotal Consultant Expenses: | | | | | | | | \$0.00 |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| SUBTOTAL REIMBURSABLES | | | | | | | | | | \$3,231 |

| FEE ESTIMATE SUMMARY | | TOTAL |
|--------------------------------|--|---------|
| Fee-Hour Estimate Subtotal | | \$1,858 |
| Reimbursable Expenses Subtotal | | \$3,231 |
| FEE ESTIMATE TOTAL | | \$5,088 |



SUPPORTING DOCUMENTS INCLUDED WITH THIS AGENDA ITEM ARE AS FOLLOWS:

Map



| Revision | |
|----------|----|
| No. | By |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

Clark Lane West and
Hinkson Creek Trail
Location Map

City of Columbia, Missouri
Department of Public Works

NOT FOR CONSTRUCTION

| | |
|----------|---------------|
| File No. | CPP99999(201) |
| Scale: | As Shown |
| Date: | 7/26/2015 |
| Des. | T.R.W. |
| Des. | T.R.W. |
| Chk. | A.A.A. |