Introduced by			
First Reading		Second Reading	
Ordinance No		Council Bill No	B 320-08
	AN ORDINA	ANCE	
authorizing the City Agreement No. 2 wit services for the design Grindstone Nature Are the time when this ordi	h HNTB C of the Hinks a and Step	orporation for engine son Creek Trail betwee hens Lake Park; and	eering en the
BE IT ORDAINED BY THE COUNCE FOLLOWS:	CIL OF THI	E CITY OF COLUMB	IA, MISSOURI, AS
SECTION 1. The City Mana Agreement No. 2 with HNTB Corpo Hinkson Creek Trail between the Gr form and content of the agreement sh hereto and made a part hereof as further SECTION 2. This ordinance	ration for e indstone Na hall be subs illy as if set	ngineering services for ature Area and Stephe tantially as set forth in forth herein verbatim.	or the design of the ens Lake Park. The "Exhibit A" attached
passage.	Silali be li	Tull lorce and effect	nom and arter its
PASSED this day	of		2008.
ATTEST:			
City Clerk		Mayor and Presiding	Officer
APPROVED AS TO FORM:			
City Counselor			

# SUPPLEMENTAL AGREEMENT NO. 2 TO ENGINEERING SERVICES CONTRACT

This Supplemental Agreement is made part of the following agreements between the City of Columbia, Missouri, hereinafter referred to as the "Local Agency", and HNTB Corporation, hereinafter referred to as the "Engineer", for the design and construction administration of the Hinkson Creek Trail – Grindstone Park to Stephens Lake project STP-2100 (518), hereinafter referred to as "Project": Agreement dated September 8, 2006; Supplemental Agreement No. 1 dated November 9, 2007.

#### ARTICLE I – SCOPE OF SERVICES

## Objective:

The objective of the professional services to be provided by Engineer will be a feasibility study of a low-water crossing bridge over Hinkson Creek instead of a pedestrian bridge as shown in the preliminary design submittal dated May 16, 2008.

The feasibility study will also further evaluate the under-crossing of the existing Old 63 bridge instead of the pedestrian tunnel under Old 63 as shown in the preliminary design submittal dated May 16, 2008. The initial findings of the under-crossing of the existing Old 63 bridge during the preliminary design of the Project determined that a "no-rise" could not be met. However, additional discussions by the Local Agency with the residential property owner to the west of Old 63 determined that the property owner may allow a larger easement on the property for the trail. The feasibility study of the under-crossing will determine whether additional use of the residential property will permit a "no-rise" to be met.

The feasibility study will be used by the Local Agency to compare costs of the low-water crossing to the pedestrian bridge as shown in the May 16, 2008 preliminary design submittal.

This Supplemental Agreement No. 2 will also eliminate the scope of the final design of the pedestrian bridge and the hydraulic analysis of the pedestrian bridge from the original agreement, dated September 8, 2006. The fee associated with this eliminated scope will be applied toward the scope of this Supplemental Agreement No 2.

## **Project Location:**

The project limits covered by this Supplemental Agreement No. 2 include the areas between Moon Valley Drive and the Old 63 bridge over Hinkson Creek (see attached project location map).

It is anticipated that the low-water crossing bridge location will be near the proposed pedestrian bridge as shown in the May 16, 2008 preliminary design submittal.

# **Basic Services**

The following is a more detailed discussion of the scope of services:

## Task 1 – Low-water Crossing and Under-crossing – Conceptual Design

1.1 HNTB will develop a conceptual design of a low-water crossing bridge. The design will include:

- Investigation of low-water crossing standards and design issues. The scope assumes that the Local Agency shall provide HNTB a preferred low-water bridge type.
- Bridge geometry.
- Superstructure options.
- Substructure options.
- 1.2 HNTB to develop plan and profile sheets of the conceptual low-water crossing bridge. The drawings shall include enough detail to determine an approximate order of magnitude cost of a low-water crossing type bridge and to conduct hydraulic modeling to determine impacts (if any) related to the low-water crossing type bridge.
- 1.3 HNTB to develop conceptual trail plan showing connection from low-water crossing bridge to under-crossing of existing Old 63 bridge, then the trail alignment shall then switchback to reach the grade of Old 63. The trail alignment shall utilize the residential property to the west of Old 63 to attempt to avoid "no-rise" within Hinkson creek. Trail grades steeper than 5% will be evaluated to help minimize switchbacks and avoid "no-rise".
- 1.4 HNTB to develop plan sheets of the conceptual trail alignment. The drawings shall include enough detail to determine an approximate order of magnitude cost for the trail, to conduct hydraulic modeling, and determine potential limits of permanent and temporary easements on the residential property to the west of Old 63.
- 1.5 Quality Control / Quality Assurance: Perform quality control and review of plans.

See Task 3 for Deliverables

# Task 2 - Conceptual Hydraulic Design

- 2.1 Review existing Flood Insurance Study and City of Columbia criteria to determine backwater constraints on Hinkson Creek.
- 2.2 Hydraulic evaluation of low-water crossing upstream of the existing Old 63 bridge and the under-crossing at the Old 63 bridge.
- 2.3 Evaluate potential stream and/or stream over bank improvements that are necessary to mitigate the adverse hydraulic effects of proposed low-water and under-crossing.
- 2.4 Quality Control / Quality Assurance: Perform quality control and review of modeling and data.

See Task 3 for Deliverables

## Task 3 – Cost Estimate and Summary

3.1 Develop cost estimate to determine an approximate order of magnitude cost of the low-water crossing, trail, and under-crossing. The Local Agency to use the cost estimate to compare to

the May 16, 2008 Preliminary Design Submittal, which included a prefabricated pedestrian bridge, raised approach, and a tunnel.

- 3.2 Prepare a summary memo which would include the results of the feasibility study, cost estimate, hydraulic data, and a brief discussion of potential issues with low-water and undercrossings such as maintenance and liability.
- 3.3 Meeting with the Local Agency to review the results of the study.
- 3.4 Meeting with the Local Agency and property Owner to discuss trail alignment impacts (Maximum one (1) meeting).

#### Deliverables:

- Five (5) copies of plans, summary, and cost estimate in a  $8\frac{1}{2}$ "x11" and 11x17" formats.
- Two (2) copies plan showing trail alignment on residential property west of Old 63 on 22x34" for Local Agency meeting with property Owner.
- Electronic distribution of meeting meetings.

## ARTICLE II - ADDITIONAL SERVICES

The Local Agency reserves the right to request additional services, as changed or unforeseen conditions may require changes and services beyond the scope of this contract. In this event, a supplement to this contract shall be executed by the Local Agency and the Engineer and submitted for the approval of MoDOT prior to performing the additional or changed services or incurring any additional cost thereof. Any change in compensation will be covered in the supplement.

Additional services would include, but are not limited to:

- Land surveying and Geotechnical Engineering (subsurface/soils investigation) Services.
- Property Acquisition Services, right-of-way plans, or easement exhibits.
- Final design.
- Project permitting.
- Any services not specifically described and/or mentioned in the previous task descriptions whether unforeseen, requested or required at a later date by the Owner or other approval agencies.

## ARTICLE III - PERIOD OF SERVICE

The Engineer will commence the services within two weeks after receiving written notice to proceed from the Local Agency. The general phases of services will be completed in accordance with the following schedule:

A. Tasks 1-3 shall be completed within 30 working days excluding holidays following written notice to proceed from the Local Agency.

The above times are exclusive of review time by other agencies and other issues beyond Engineer's control. The Local Agency will grant time extensions for unavoidable delays beyond the control of the Engineer. Requests for extensions of time should be requested in writing by the Engineer, stating fully the reasons for the request.

## **ARTICLE IV - COMPENSATION**

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Fee for additional services shall increase the fee for total services by \$15,770, including a fixed fee of \$1,928. This addition shall increase the fee for total services to an amount not-to-exceed \$78,089.59, including a fixed fee of \$9,420.67. Attachment A outlines the cost breakdown for this Supplemental Agreement.

All other provisions of the prime agreement dated September 8, 2007 not addressed herein remain unchanged.

Supplement Agreement No. 2 is accepted as defined herein:

LOCAL AGENCY:	City of Columbia, Missouri	ENGINEER:	HNTB Corporation
BY:		BY:	
NAME:		NAME:	Brian Carlson
TITLE:		TITLE:	Associate Vice President
DATE:		DATE:	10/22/08
ATTEST			
BY:		BY:	you las
NAME:		NAME:	Lynn Mohr
TITLE:		TITLE:	Project Administrator
DATE:		DATE: /0	/22/08
Executed by th	ne City of Columbia, Missouri on	the day	of, 2008.

# Attachment A Cost Breakdown

(following 5 pages)

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	Project SE		ļ	\$38.00		\$1,026	
1	Project CE		Ø	\$36.00		\$1,080	
	Project LA	28	@	\$25.00	) =	\$700	
	SE	22	@	\$25.00	=	\$550	
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	Administrator	2	@	\$25.00		\$50	
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## Work-Hour Estimate Tasks 1-3

		-		1							Total
	Senior	\$E	Senior CE	Senior LA	Project SE	Project CE	Project LA	Engineer SE	Technician SE	Admin	Hou
Tasks 1	2										
1.1 Low Water Crossing Standards Investigations	2	_t			1 8	<del>                                     </del>					<del> </del>
1.1 Bridge Geometry		- 1			4						t
1.1 Superstructure Options					6			8			t
1.1 Substructure Options								3			t~~~~
1.2 Bridge Plan Sheet					1			4	10		1
1.2 Bridge Profile Sheet			.,		1			4	10		<b>!</b>
1.3 Conceptual Trail Design Options			4	8	1		4				
1.4 Trail Plan Sheets		- 1		4			16				
1.5 QA/QC	3		2	4							
Fasks 2	İ				!				1	1	i
2.1 Review Existing Hydraulic Criteria					I	4					t
2.2 Evaluate Low-Water and Under-Crossing	2					10					<b>-</b>
2.3 Evaluate Mitigation Options		$\neg$				8			f		-
24 QAQC						6					
Toeks 3		-+			6			3		1	
3.† Cost Estimate				4		2					
3.2 Summary Report	2	-+		4	2						
3.3 Meeting with Local Agency	8			8							
3.4 Meeting with Property Owner			8	8							
Total: F	loure 17	+	14	40	27	30	28	22	20	2	
Subtotal Work+	lours 17	L		40	27	30	28	22	20		

# Fee Proposal Tasks 1-3

# Direct Labor

	Work-Hours		Hourly Rate	æ	
Senior SE	17	Ø	\$51.00	=	5867
Senior CE	14	0	\$32.00	#	\$448
Senior LA	40	0	\$31.00	25	\$1,240
Project SE	27	æ	\$38.00	-	\$1,026
Project CE	30	0	\$36.00	-	\$1,080
Project LA	28	œ.	\$25.00	~	\$700
SE	22	œ	\$25.00	=	\$550
Technician	20		\$28.00		\$560
Administrator	2	0	\$25.00	TE .	\$50
Total Work-Hours	200		Total Direct	Labor	\$6,521

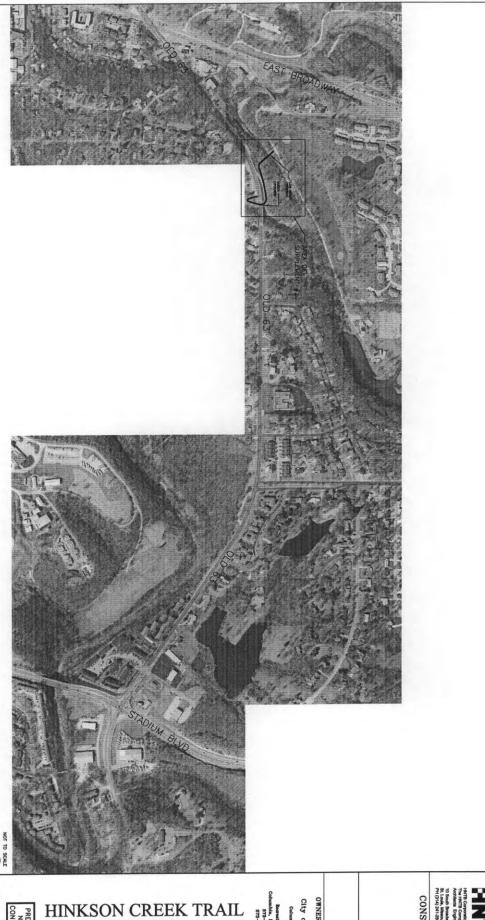
# Work-Hour Estimate Final Design Credit - Prefabricated Bridge

	Senior CE	Senior LA		Project LA	Technician i	Admin	Total Hours
Final Design		<del> </del>	<del> </del>				
Coordination with Manufacturer	1	1		2			
Update Cost Estimate	1	1		2			
Plan Sheet	7	1	ļ		6		
Profile Sheet	1	1			6		
Final Revisions		1			4		
Job Special Provisions	1	2		6 .			
Contractor Request for Information		2		2			
Shop Drawing Review		4					
						··	<del></del>
Total Hours	A	13		12	16	0	
	·						
Subtotal Work-Hours	4	13	0	12	16	0	

# Fee Proposal Final Design Credit - Prefabricated Bridge

## Direct Labor

	Work-Hours		Hourly Rate	_	
Senior CE	4	Ø	\$45.00	=	\$180
Senior LA	13	0	\$42.00	=	\$546
Project CE	0	0	\$35.00	*	50
Project LA	12	ø	\$25.00	=	\$300
Technician	16	6	\$18.00		\$288
Administrator	0	¢	\$26.00	*	\$0
Total Work-Hours	45		Total Direct	Labor	\$1,314



HINKSON CREEK TRAIL Supplement #2 STP -2100 (518) Columbia, Missouri

CONSULTANTS:

YES x

NO

Other Info.

Project number: C00245: Phase I C00281: Phase II Agenda Item No.\_\_\_\_\_

TO:

City Council

FROM:

City Manager and Staff

DATE:

October 20, 2008

RE:

Supplemental Agreement No. 2 to Engineering Services Contract for the

All

Grindstone Nature Area to Stephens Lake Park trail project.

## **EXECUTIVE SUMMARY:**

Staff has prepared for Council consideration an ordinance authorizing the City Manager to execute a Supplemental Agreement No. 2 with the HNTB Corporation of St. Louis, Missouri in the amount of \$15,770.00 to provide engineering feasibility study of a low-water crossing bridge over Hinkson Creek and an under-crossing of the existing Old 63 Highway bridge. The HNTB Corporation was awarded Phase I of Grindstone to Stephens project in the amount of \$39,979.87 and when Phase II was federally funded, HNTB was awarded this second phase in the amount of \$22,339.72 for a total contract of \$62,319.59. The addition of Supplemental Agreement #2 increases the total engineering costs of these two projects to \$78,089.59. Total cost of the two trail development projects is \$780,000.

## **DISCUSSION:**

The scope of the original contract and Supplemental Agreement #1 is to provide construction drawings for the both Phase I and Phase II of the proposed Hinkson Creek recreation trail connecting Grindstone Nature Area and Stephens Lake Park. Phase I connects Grindstone to the Old 63 Highway sidewalk and connects Stephens to the Old 63 Highway sidewalk. Phase II is to widen and improve this sidewalk. The proposed project area relating to Supplemental Agreement No. 2 is shown on the attached plan. This combined project (Phase I & II) was funded in the City's 2006 and 2007 Capital Improvement Program, with funding by a Federal Highway Administration Surface Transportation Enhancement Grant, a Prior Year Appropriation from the ¼ 1999 Sales Tax, and the Park Sales Tax. In November, 2007 the addition of Supplemental Agreement #1 was the result of MoDot's approval to combine Hinkson Creek Trail Phase I and Phase II (Project No. STP-2100-518 and Project No. STP-2100-519) into one project.

The original study called for a pedestrian bridge over Hinkson Creek near Moon Valley Road and the construction of a pedestrian tunnel under Old 63 Highway. This tunnel was proposed to avoid "no-rise" in the Hinkson Creek floodway and to minimize the amount of easement required from an adjacent landowner. However, construction estimates far exceeded the amount of funds available for this project.

City and state staff looked at other options including a low water crossing and a pedestrian access under the existing Old 63 bridge and felt that these would be acceptable options and hopefully, fall within budget. Initial discussions with the adjacent landowner indicated that an increase in amount of the requested easement would be acceptable.

The calculations and design needed for the low-water crossing bridge and the crossing under the existing Old Highway 63 bridge were not included in the original study. This agreement also eliminates the hydraulic analysis and the final design of the pedestrian bridge from the original agreement. The fee associated with this will be applied to the scope of Supplemental Agreement #2.

The budget for the Hinkson Creek Phase I trail project is \$570,000 and \$210,000 for Hinkson Creek Phase II. Total project cost is \$780,000. To date, total engineering services is just over 10% of the project budget.

# **Suggested Council Action:**

Approval of the ordinance.

