

CITY COMMISSION AGENDA MEMO
May 20, 2008

FROM: Robert K. Ott, P.E., City Engineer

MEETING: June 3, 2008

SUBJECT: Engineering Services Amendment for US-24 and Marlatt Avenue, Street and Stormwater Drainage Improvements (ST0612)

PRESENTER: Robert K. Ott, P.E., City Engineer

BACKGROUND

The public improvement process involves several steps to take a project from conception through completion. First, funding must be obtained for a project and then a project is designed. The City Commission awards a contract for the design of improvements for the project. Design is then performed as close as possible to the contract scope. Changes to the contract as awarded by the City Commission that are significant in nature are brought back to the Commission for approval of an amendment.

US-24 and Marlatt Avenue (ST0612) provides for the design of street and stormwater drainage improvements at the intersection of US-24 and Marlatt Avenue.

DISCUSSION

Additional work is being required by the City of Manhattan to construct a left turn lane and right turn lane on US-24 at Walters Drive. Currently, these improvements are outside of the approved scope of the project at US-24 and Marlatt Avenue. City Administration has requested the Public Works staff prepare plans for the improvements at Walters Drive to be incorporated as an add to the large project for 2009. KDOT has capped the dollar amount in which it will contribute to the project. However, City Administration's opinion is that this is an opportunity to utilize the contractor that will be onsite to complete these additional improvements to this intersection.

Attached is an amendment to the Engineering Services Agreement for Bartlett and West Inc., of Manhattan, Kansas, to complete the additional design work for US-24 at Walters Drive. The bulk of this change accounts for additional plans and profiles that need to be

drawn to construct a south bound left turn lane and north bound right turn lane at Walters Drive, and improve the approach angle of Walters Drive with US-24.

FINANCING

City Staff has applied for and explored numerous sources of funding for this intersection. At this time, there is not a grant from KDOT nor from the Federal Government for US-24 and Walters Drive. The estimated project cost for construction of this intersection is \$354,840.00. The City of Manhattan would fund the construction of this project through General Obligation Bonds. The additional design cost is \$34,500.00. The design would be funded from the Special Streets and Highway Fund.

ALTERNATIVES

It appears the Commission has the following alternatives concerning the issue at hand. The Commission may:

1. Approve and authorize to execute the proposed amendment to the Engineering Service Agreement.
2. Deny the proposed amendment.
3. Modify to meet the needs of the Commission.
4. Table the request.

RECOMMENDATION

City Administration recommends the City Commission approve and authorize to execute the proposed amendment to the Engineering Services Agreement.

POSSIBLE MOTION

Approve and authorize the Mayor and City Clerk to execute a Supplemental Agreement to the Engineering Services Agreement for the US-24 and Marlatt Avenue Street and Stormwater Drainage Improvements (ST0612) to include turn lanes on US 24 at Walters Drive, resulting in a net increase in the amount of \$34,500.00 to the contract with Bartlett and West, Inc., of Manhattan, Kansas.

08075 RKO/ie

Enclosure:

1. Supplemental Agreement

SUPPLEMENTAL AGREEMENT

This Supplemental Agreement entered into the City of Manhattan, Riley County, State of Kansas, this 21st day of May, 2008, by and between the City of Manhattan, Kansas, a Municipal Corporation, hereinafter referred to as CITY, and Bartlett & West Inc., a professional corporation, hereinafter referred to as CONSULTANT.

WITNESSETH:

WHEREAS, the CITY and the CONSULTANT have executed a contract as of December 5th, 2006, in which the CONSULTANT will provide professional and technical services to plan and design the US-24 & Marlatt Avenue Intersection, hereinafter referred to as CONTRACT; and

WHEREAS, the CITY is seeking professional and technical services to design the 100 feet of south bound left turn lane and 600 feet north bound right turn lane and realign 150 feet of Walters Drive at US-24 ; and

WHEREAS, the CITY and the CONSULTANT do hereby agree to amend said contract to include the work outlined above.

NOW THEREFORE, in consideration of the foregoing recitals and the terms and conditions herein contained, it is agreed to the following:

1. General:

The CONSULTANT shall serve as the City's professional and technical representative to provide additional services for design the 100 feet of south bound left turn lane and 600 feet north bound right turn lane and realign 150 feet of Walters Drive at US-24 such that the design of the plans to conform to KDOT standards for federal highway projects as part of the US-24 & Marlatt Avenue Intersection and in conformance with the Agreement for Professional Engineering Services dated December 5th, 2006 and shall provide consultation and advice to the City during the performance of these services.

2. Compensation:

The City shall compensate the CONSULTANT for these additional CONTRACT BASIC SERVICES outlined in the attached proposal dated May 21, 2008 after submittal and

Amendment to Contract
US-24 & Marlatt Avenue
Page 2

approval of the work, all in full accordance to the CONTRACT. The maximum fee established for these additional BASIC SERVICES shall not exceed \$34,500.00.

3. Schedule:

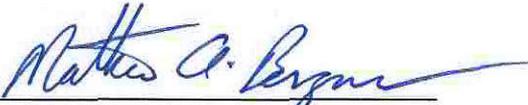
The services provided for herein will require an additional 30 calendar days to finalize the Final plans.

City of Manhattan, Kansas

Mark J. Hatesohl
Mayor

ATTEST: _____

Bartlett & West Inc.
Consultant

By: 

Name: Nathan Bergman, P.E.
Engineering Manager

ACKNOWLEDGMENT: 

**EXHIBIT A
ENGINEERING SERVICES AMENDMENT**

Owner: City of Manhattan, Kansas
Engineer: Bartlett & West, Inc.
Project Number & Name: Walters Drive & Tuttle Creek Blvd./US-24 Intersection Imp.

SCOPE OF SERVICES

BASIC SERVICES

The project is specifically defined below:

This project includes design and final plans for roadway improvements at the intersection of Walters Drive & Tuttle Creek Blvd./US-24 Highway in the City of Manhattan associated with the Tuttle Creek Blvd./US-24 & Marlatt Ave. Intersection Improvements project (City of Manhattan Contract ST0612).

The Engineer agrees to provide the following services:

Task I. Preliminary Design

1.01. Data Collection.

- A. Attend pre-design meeting.
- B. Provide preliminary layout of proposed intersection improvements (100' SB Left Turn Lane, 600' NB Right Turn Lane, and realign 150' of Walters Drive). Assumed that these intersection improvements will not alter the current Marlatt Ave. & US-24 Intersection project.
- C. Obtain additional topographic survey data (800' on northbound US-24 Highway and 200' on Walters Drive south and west of the proposed intersection improvements, respectively).
- D. Contact utility companies and request field locates of their facilities. Survey field markings made by utility companies. Identify potential utility conflicts that exist within the proposed improvements and request verification by utility companies.

Task II. Preliminary Design

2.01. Prepare field check plans using the latest City of Manhattan and KDOT Design Criteria Standards as guidance. Plans will include:

- A. Typical sections sheet.
- B. Plan and profile sheets.

Plan scale: 1" = 20'

Profile scale: H: 1"=20'; V: 1"=5'

- C. Cross-section sheets.
- 2.02. Develop preliminary opinion of probable project costs, itemized by unit of work and including an appropriate contingency.
- 2.03. Submit preliminary plans and opinion of probable cost to the City and KDOT for review. Assumed that existing drainage structures will be extended.
- 2.04. Meet with the City in connection with such preliminary work (two meetings assumed).
- 2.05. Submit field check plans to utility companies.
- 2.06. Field Check to be performed with representatives of the Engineer and the City at the project site with appropriate detailed plans (one field check assumed).
- 2.07. Coordinate and meet with utility companies (one meeting assumed).
- 2.08. Obtain Kansas Department of Transportation Access Permit. Assumed all other necessary permits have previously been obtained with the Marlatt Ave. & US-24 Intersection project.

Task III. Easements

- 3.01. Assumed all improvements will be done within the existing right of way.

Task IV. Final Design

- 4.01 Prepare plans and specifications in accordance with the latest City of Manhattan and KDOT Design Criteria Standards as guidance. Plans will include:
 - A. Typical sections sheet.
 - B. Special details.
 - C. Plan and profile sheets.
 - Plan scale: 1" = 20'
 - Profile scale: H: 1"=20'; V: 1"=5'
 - D. Paving plan sheets.
 - E. Cross-section sheets.
- 4.02. Prepare an opinion of probable project costs, itemized by unit of work and including an appropriate contingency.

Task V. Bidding

- 5.01 Assumed that the City will negotiate bid prices with the contractor of the Marlatt Ave. & US-24 Highway Intersection project and this project will not be formally bid.

Task VI. Construction

- 6.01. Construction phase services will be included with the construction phase services agreement for the Marlatt Ave. & US-24 Intersection project.

SUPPLEMENTAL SERVICES

Any work requested by the Owner that is not included in the Basic Services will be classified as Supplemental Services. Supplemental Services shall include, but are not limited to the following.

- A. Changes in the general scope, extent, or character of the project or its design, including but not limited to changes in size, complexity, schedule, character of construction or method of financing; and revising previously accepted studies, reports, or design documents when such revisions are required by changes in laws, regulations, ordinances, codes or orders enacted subsequent to the preparation of such studies/reports/documents or designs or due to any other causes beyond the Engineer's control.
- B. Collecting existing traffic volumes, projecting future traffic volumes, or modeling the intersection.
- C. Revisions to the plans and specifications when inconsistent with previous approvals or instruction by the Engineer or Owner.
- D. Obtaining additional right of way or easements.
- E. Surveying related to utility relocation.
- F. Bidding related services.
- G. Construction phase services.

EXHIBIT B



Bid Date:
Project No.:

Engineer's Opinion of Construction Costs

5/20/2008

Project: Walters Drive and Tuttle Creek Blvd./US-24 Intersection

Item No.	Description	Quantity	Unit	Engineer's Estimate	
				Unit Price	Extension
1	MOBILIZATION	1	LSUM	\$50,000.00	\$50,000
2	CLEARING & GRUBBING	1	LSUM	\$1,000.00	\$1,000
3	EXCAVATION (CONTRACTOR FURNISHED)	2000	CUYD	\$10.00	\$20,000
4	EXCAVATION (COMMON)	500	CUYD	\$4.00	\$2,000
5	EXCAVATION (ROCK)	1000	CUYD	\$10.00	\$10,000
6	COMPACTION OF EARTHWORK (TYPE A) (0-5)	3000	CUYD	\$3.00	\$9,000
7	WATER (GRADING) (SET)	1	M-GAL.	\$1,000.00	\$1,000
8	REMOVAL OF EXISTING STRUCTURES	1	LSUM	\$1,000.00	\$1,000
9	BITUMINOUS SURFACE (SM-12.5A) (PG 70-28)	1400	TONS	\$75.00	\$105,000
10	SURFACING MATERIAL (AB-3)	800	TONS	\$30.00	\$24,000
11	7" CONCRETE PAVEMENT (NRD)) (UNIFORM) (AE)	500	SQYD	\$60.00	\$30,000
12	CURB & GUTTER, COMBINED (AE)	300	LNFT	\$30.00	\$9,000
13	SIDEWALK CONSTRUCTION (6") (AE)	80	SQYD	\$40.00	\$3,200
14	STORM SEWER (15") (RCP)	50	LNFT	\$40.00	\$2,000
15	CROSS ROAD PIPE (24") (RCP)	50	LNFT	\$50.00	\$2,500
16	END SECTION (15") (RC)	2	LNFT	\$500.00	\$1,000
17	END SECTION (24") (RC)	2	LNFT	\$1,000.00	\$2,000
18	TRAFFIC CONTROL	1	LSUM	\$10,000.00	\$10,000
19	PAVEMENT MARKINGS	1	LSUM	\$2,000.00	\$2,000
20	SIGNING	1	LSUM	\$1,000.00	\$1,000
21	LIGHTING	1	LSUM	\$10,000.00	\$10,000
Contingencies (20%)					\$59,140
					\$354,840