

CITY of NOVI CITY COUNCIL

Agenda Item K
July 7, 2008

SUBJECT: Approval of a contract amendment to Fishbeck, Thompson, Carr & Huber for additional design engineering services for the Pontiac Trail Water Main Extension project in the amount of \$19,400.

SUBMITTING DEPARTMENT: Engineering *RH*

CITY MANAGER APPROVAL: *[Signature]*

EXPENDITURE REQUIRED	\$19,400
AMOUNT BUDGETED	NA-Enterprise Fund (2006-7 Capital Improvement Program estimate of \$1,200,000 less approximately \$129,000 committed and spent to date)
APPROPRIATION REQUIRED	\$19,400
LINE ITEM NUMBER	592-592.00-160.590 (Water & Sewer Fund)

BACKGROUND INFORMATION:

Fishbeck, Thompson, Carr & Huber (FTCH) was retained to provide design and construction engineering services for the Pontiac Trail Water Main Extension project in spring 2006. The scope of the project at that time was valued at approximately \$525,000, but during the design phase several essential items were identified that needed to be added to the scope. The low bid for construction is \$939,510, or a 79% increase in scope. FTCH has requested a fee increase of \$19,400, or 52% of the design fee originally awarded in 2006 (FTCH's November 14, 2007 and February 11, 2008 letters are attached). The following is a comprehensive list of design phase tasks that were beyond the original project scope:

- Added 2,650 of 12" diameter pipe to replace failing 8" diameter asbestos-cement pipe. This major addition to the project's scope also required an added topographic survey along the proposed alignment of this section, as well as an additional geotechnical evaluation.
- Added a secondary 12-inch water main connection at Westgate Apartments.
- Eliminated two interconnections with the Walled Lake water system.
- Revised and expanded the sequencing of construction to minimize customer disruption.
- Prepared plans to maintain water service users during replacement of 8" asbestos pipe.
- Added a road crossing at West Park Drive.
- Expended out-of-scope hours assisting the City in obtaining several easements from landowners along the water main's alignment.

Engineering staff have reviewed Fishbeck's request and given the magnitude of scope increase on this project, the \$19,400 design fee increase is fair and reasonable.

RECOMMENDED ACTION: Approval of a contract amendment to Fishbeck, Thompson, Carr & Huber for additional design engineering services for the Pontiac Trail Water Main Extension project in the amount of \$19,400.

	1	2	Y	N
Mayor Landry				
Mayor Pro Tem Capello				
Council Member Crawford				
Council Member Gatt				

	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

February 11, 2008
 Project No. G06201CD

Mr. Robert Hayes, P.E.
 City Engineer
 City of Novi
 45175 West Ten Mile Road
 Novi, MI 48375

Re: Pontiac Trail Water Main Design
 Project Status

Dear Mr. Hayes:

We received your e-mail dated December 18, 2007, relative to the additional design scope for the Pontiac Trail Water Main Design. We appreciate that you will request City Council approval of our additional design costs based on the increased scope of services. We understand that your intent is to request this at the time of bidding the project. Hopefully, the outstanding easement issues will be resolved soon so the bidding may proceed.

Our understanding of the status of the design engineering budget is as follows:

Original Design Budget (Purchase Order No. 73417)	\$37,615.00
Additional Services (Upon Council's Approval)	<u>19,400.00</u>
Total Design Engineering Budget	\$57,015.00

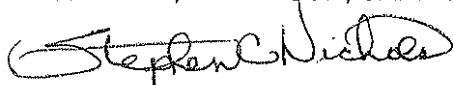
The City of Novi (City) has previously provided payment to Fishbeck, Thompson, Carr & Huber, Inc. (FTC&H) in the amount of \$38,048.95. The remaining amount in the engineering budget is \$18,966.05. Enclosed is an invoice for the balance of our design engineering for your review. Since the bidding may take a few months, we understand it may take time to receive our payment on this invoice.

FTC&H will continue to perform design services associated with utility coordination, minor plan revisions based on QA/QC comments, and providing the City with bid documents. Additionally, if any modifications of the easements are necessary, we will work with the City to address those issues.

We believe that this accurately reflects the status of this project. If you have other concerns or issues that FTC&H should address, we would appreciate your input. Thank you for your assistance on this project.

Sincerely,

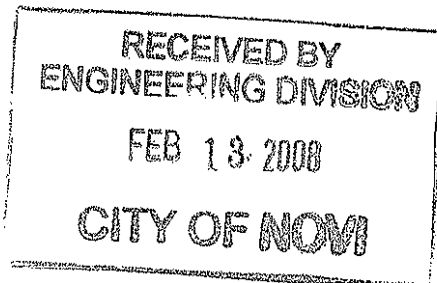
FISHBECK, THOMPSON, CARR & HUBER, INC.



Stephen C. Nichols, P.E.
 Senior Vice President

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cc: Mr. Brian Coburn P.E. - City of Novi
 Mr. Jeffrey J. Brown, P.E. - FTC&H
 Mr. Thomas L. Gray II, P.E. - FTC&H



1515 Arboretum Dr., SE

Grand Rapids, MI

49546

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fax: 616.575.8155

www.ftch.com

November 14, 2007
Project No. G06201CD

Mr. Robert Hayes, P.E.
City Engineer
City of Novi
45175 West Ten Mile Road
Novi, MI 48375

Re: Pontiac Trail Water Main
Change in Scope of Design Services
P.O. No. 73417
GL #592-000.00-160.590

Dear Mr. Hayes:

Based on our discussions, Fishbeck, Thompson, Carr & Huber, Inc. (FTC&H) has prepared this letter to detail the changes of scope of the referenced project. FTC&H's original proposal submitted on February 7, 2006, was for the design and construction of approximately 4,650 lineal feet of 12-inch water main to close three gaps in the City of Novi's (City) water system and improving fire flows to the new Industrial Park. As part of the project, the water main would connect to existing private 8-inch asbestos cement water main in front of the Waterview and Westgate Apartments on Pontiac Trail. During the preliminary design, it was agreed that this 8-inch water main created a restriction reducing fire flows and should be replaced with a 12-inch water main. As a result, the City requested that FTC&H perform additional design services. These additional services included the design of a new 12-inch water main to replace the existing 8-inch asbestos cement water main along Pontiac Trail.

Subsequent to the initial change in scope, the City requested a second addition to the scope of services. This included the design of a secondary water main connection to the Westgate Apartments. This connection was to be a 12-inch water main constructed at the West Park Drive entrance to the development.

As a result of the increases in scope, the final revised scope includes approximately 7,300 lineal feet. The change(s) in design scope required the following additional engineering services:

- Perform an additional topographic survey for 2,650 lineal feet along Pontiac Trail and at the entrance of West Gate Apartments on West Park Drive.
- Perform 5 boring soil borings along Pontiac Trail at a cost of \$3,900.
- Design the 2,650 lineal feet of replacement water main along Pontiac Trail and at West Park Drive and detail the work on service connections.
- Develop plans to eliminate two of the interconnections with the City of Walled Lake's water system while maintaining one interconnection.
- Develop bore and jacking plans, water main connections, and maintaining traffic concepts for the water main across West Park Drive.
- Revise and expand the sequence of construction for the replacement water main connections to the existing users (apartments) to minimize the disruption of service.
- Develop plans to maintain water service to customers currently serviced by the existing 8-inch asbestos cement pipe.



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Mr. Robert Hayes, P.E.
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 November 14, 2007

Our original budget for the design was \$37,615. FTC&H is requesting a budget increase of \$19,400 for this additional effort. If the City approves this request, it would bring our total engineering fee to \$57,015. Based on the increased scope of services, the need for a second field survey and additional soil borings and the increased difficulty involved in designing a replacement water main that minimizes the impact to existing customers in service, we believe this is a reasonable request.

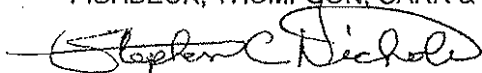
The City should also be aware that in the future, we are likely to request a fee for construction services based on the change between the estimated construction cost in the proposal of \$525,000 and the actual bid price. Our current estimate for the construction cost has increased to \$1,286,650.

Please consider our request for additional design fees associated with the additional scope items requested by the City for this project.

If you have any questions or desire additional information please contact me at (616) 464-3944. Thank you for your consideration in this matter.

Sincerely,

FISHBECK, THOMPSON, CARR & HUBER, INC.



Stephen C. Nichols, P.E.
 Vice President

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By hand delivery

cc Mr. Brian Colburn P.E. - City
 Mr. Jeffrey J. Brown, P.E. - FTC&H
 Mr. Thomas L. Gray II, P.E. - FTC&H



PROJECT LOCATION

PONTIAC TRAIL WATER MAIN EXTENSION

