



CITY of NOVI CITY COUNCIL

**Agenda Item C
March 17, 2008**

SUBJECT: Approval of a construction engineering fee increase to FTC&H for the Walled Lake Diversion Sewer project in the amount of \$12,945.35.

SUBMITTING DEPARTMENT: Engineering

CITY MANAGER APPROVAL: 

EXPENDITURE REQUIRED	\$12,945.35 (From Water & Sewer Fund)
AMOUNT INCLUDED IN CIP	\$115,000
ADDITIONAL AMOUNT REQUIRED	\$12,945.35
LINE ITEM NUMBER	592-000.00-160.540

BACKGROUND INFORMATION:

Fishbeck, Thompson, Carr & Huber (FTC&H) was retained to provide design and construction engineering services for the recently-completed Walled Lake Diversion Sewer project. The scope of the project at the time of engineering award in spring 2006 consisted of approximately \$53,100 of construction, but since then the scope has increased to a construction value of \$166,775. This increase was primarily due to the need to provide a temporary signal and permanently relocate the traffic signal at West Park Drive and West Road, as well as the addition of special instrumentation and controls required by the Oakland County Drain Commissioner's Office (OCD).

For construction engineering services, FTC&H's fee is based on a fixed 11.4% of construction and FTC&H was initially awarded a fee of \$6,067 (11.4% of \$53,100). Based on the current construction value, FTC&H's construction engineering fee should be \$19,012 (11.4% of \$166,775), or an increase of \$12,945.35. FTC&H has billed up to the \$6,067 amount previously authorized for construction engineering.

The Walled Lake Diversion Sewer allows the diversion of up to 1.0 cubic feet per second of flow from the Walled Lake Sanitary Sewage District (which is tributary to the Walled Lake Novi Wastewater Treatment Plant operated by OCD) to the North Huron Valley/Rouge Valley interceptor that flows into Wayne County. As you may recall, in early 2006 OCD notified the City that Novi had exceeded its contractual capacity at the Walled Lake-Novu WWTP and that no additional sanitary sewer permits would be issued for that district until the capacity issue was addressed. The completed project now gives the City flexibility by allowing excess sanitary flows to be diverted to Wayne County as needed.

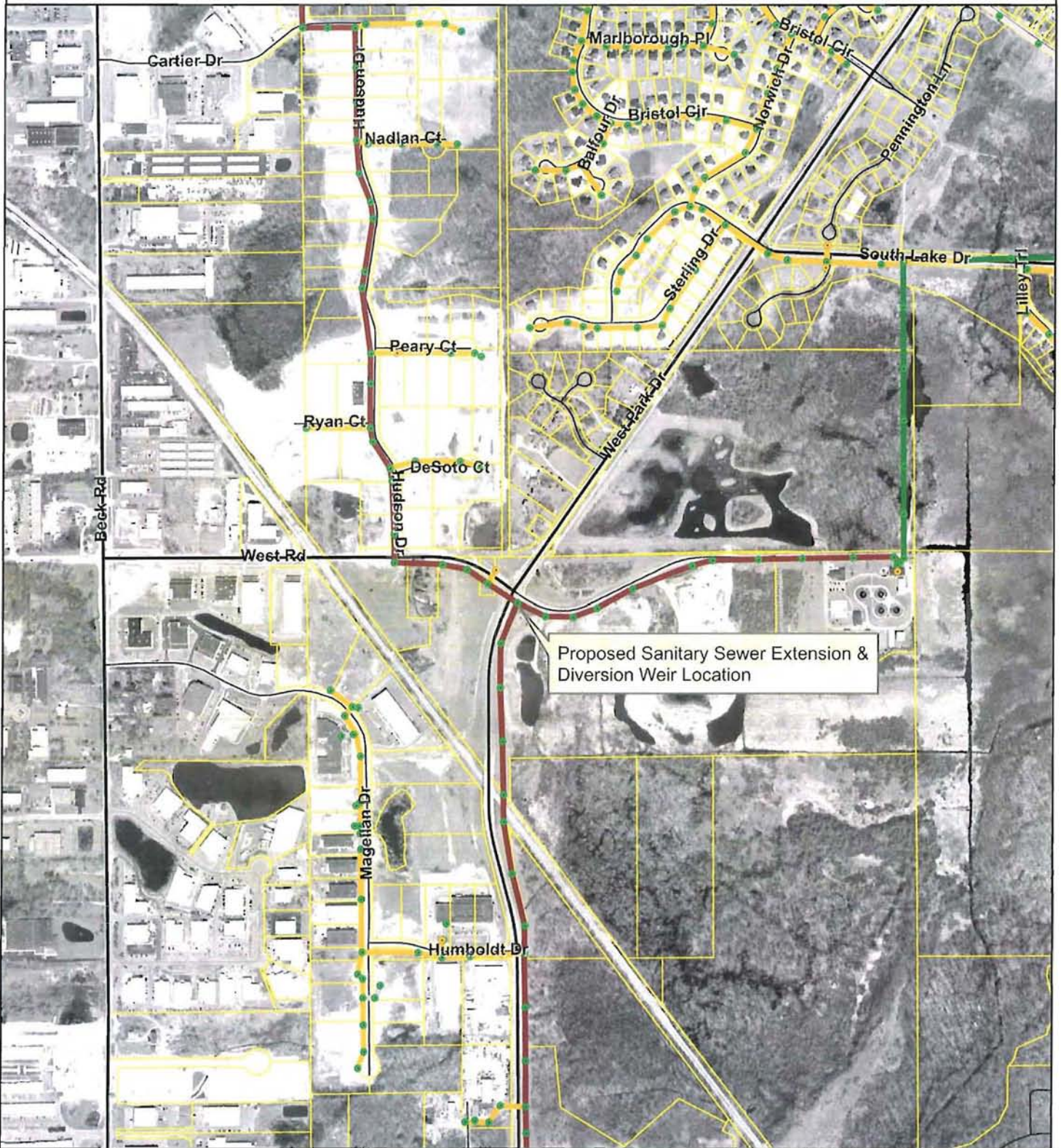
RECOMMENDED ACTION: Approval of a construction engineering fee increase to FTC&H for the Walled Lake Diversion Sewer project in the amount of \$12,945.35.

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

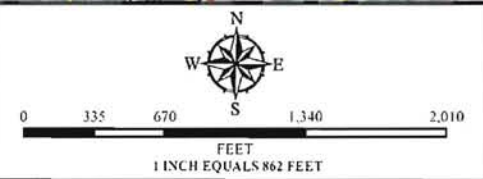
	1	2	Y	N
Council Member Margolis				
Council Member Mutch				
Council Member Staudt				

Exhibit B - Location Map

Walled Lake Diversion Sewer



CITY OF NOVI
GEOGRAPHIC INFORMATION SYSTEMS OFFICE
DEPARTMENT OF INFORMATION TECHNOLOGY
NOVI CITY HALL, CIVIC CENTER
45175 W. TEN MILE ROAD
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MAP INTERPRETATION NOTICE
Map information depicted is not intended to replace or substitute for any official or primary source. This map was intended to meet National Map Accuracy Standards and use the most recent, accurate sources available to the people of the City of Novi. Boundary measurements and area calculations are approximate and should not be construed as survey measurements performed by a licensed Michigan Surveyor as defined in Michigan Public Act 132 of 1970 as amended. Please contact the City GIS Manager to confirm source and accuracy information related to this map.

November 14, 2007
 Project No. G06202C1

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

Re: Walled Lake Diversion Sewer
 Construction Engineering Services
 P.O. No. 74077
 GL# 592-000.00-160.540

1515 Arboretum Dr., SE
 Grand Rapids, MI
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 fax: 616.575.8155
 www.ftch.com

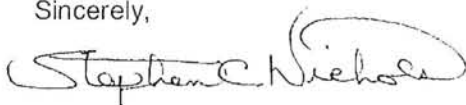
Dear Mr. Hayes:

This letter is to request an increase to our approved budget for the referenced project. Fishbeck, Thompson, Carr & Huber, Inc.'s (FTC&H) contract with the City of Novi (City) stated the construction engineering fees shall be based upon a percentage of the construction cost. P.O.No. 74077 included an estimated construction engineering fee of \$6,067 based on 11.4 percent of an estimated construction cost in the proposal of \$53,100. The approved construction cost based on current contract amounts is \$166,775. It should be noted that this construction is still ongoing and the final construction cost may change slightly in the future.

FTC&H is requesting our construction engineering fee be increased to 11.4 percent of \$166,775 which equals \$19,012.35 based on our contract. This increase would be consistent with how our agreement with the City is structured.

If you have any questions or comments relative to this matter, please contact me at (616) 464-3944. Thanks you for your consideration in this matter.

Sincerely,



Stephen C. Nichols, P.E.

jah

By hand delivery

Mr. Thomas L. Gray II, P.E. - FTC&H
 Ms. Karen E. Carnago, P.E. - FTC&H
 Mr. David P. Eno, P.E. - FTC&H



6-29-06

To: Mayor and City Council Members

Update on one of the items on priority topic we are addressing.
Clay Pearson

MEMORANDUM

To: Clay Pearson, Interim City Manager
From: Rob Hayes, PE, City Engineer *RH*
Re: **Walled Lake District Sanitary Sewer Diversion Project - Update**
Date: June 29, 2006

As you know, the City of Novi is currently exceeding its contracted capacity at the Walled Lake-Novu wastewater treatment plant (WWTP) by 1,032 units; and, at full build-out the City will exceed its contracted capacity by roughly 2,005 units. Consequently, no new permits for sanitary sewer extensions in the Walled Lake District will be approved by the Oakland County Drain Commissioner (OCDC) and MDEQ until Novi's contracted capacity is adjusted upward, plant capacity is expanded, or excess units are removed from the District. To remedy this situation, the City initiated a project to divert excess sewage flows to the NHV/RV system. Once constructed, the diversion project would allow the permit moratorium to be lifted in the District. Currently, the plans for the diversion project have been approved in concept by OCDC, and we are awaiting MDEQ's review and approval so that a permit for diversion construction may be issued.

Yesterday, Brian Coburn and I met with OCDC representatives Doug Buchholz, Tim Prince and Mark Davis; and Sue Pennington, the Walled Lake-Novu wastewater treatment plant operator. The meeting was called because OCDC recently expressed a concern regarding how reduced flow caused by the diversion from the Walled Lake-Novu District to the North Huron Valley/Rouge Valley system to the south would impact the Walled Lake-Novu WWTP in terms of plant performance as well as revenue. OCDC's concern posed a circular argument: on the one hand OCDC is requiring the City to not exceed contractual flow, and on the other hand OCDC does not want flows to be reduced. }

To address this concern, we explained that the diversion structure has been designed with inherent flexibility so that changes in actual average daily flow to the plant would be minimized. In other words, the plant would not see a significant reduction in flow from Novi's Walled Lake District over time, and that the diversion structure is more of a "failsafe" measure to prevent an exceedance of actual flow capacity. Specifically, as Walled Lake adds users to the WWTP, Novi will be diverting an equal flow through the diversion structure and into the North Huron Valley/Rouge Valley system. To assure this, all parties agreed that a correlation needs to be made between the number of units connected in the District and the actual flow being conveyed to the plant. The County will be continuing in its efforts to study the plant to determine if additional capacity will become available in the future.

We will continue to work closely with OCDC to coordinate this project to facilitate the release of pending sanitary sewer permits in the Walled Lake District. Once the operation of the diversion

Walled Lake District Sanitary Sewer Diversion Project - Update
June 29, 2006
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structure is determined, it is likely that an amended agreement between the communities tributary to the Walled Lake-Novu WWTP will be required.

Please let me know if you need any further information regarding the diversion project.

cc: Brian Coburn, P.E., Civil Engineer
Kathy Smith-Roy, Finance Director
Tom Schultz, Secrest-Wardle