

**CITY COUNCIL
COMMUNICATION:**

03-541

AGENDA:

NOVEMBER 17, 2003

SUBJECT:

CHANGE ORDER NO.
1 MARTIN LUTHER
KING JR. PARKWAY
RAW
WATER LINE
RELOCATION

TYPE:

RESOLUTION
ORDINANCE
RECEIVE/FILE

SUBMITTED BY:

JEB E. BREWER, P.E.
CITY ENGINEER

ITEM 14

**OFFICE OF THE CITY MANAGER
CITY OF DES MOINES, IOWA**

SYNOPSIS —

A Change Order has been negotiated with Van Hauen & Associates, Inc. (Mark Van Hauen, President, 13185 Pineview Drive, Clive, IA, 50325) in an amount not to exceed \$157,512 to adjust the alignment of the Des Moines Water Works Raw Water Line.

FISCAL IMPACT —

Funding is provided in the Capital Improvements Program, CIP Index Code 383943, Martin Luther King, Jr., Parkway (East/West) – Account 543060 – Fund CP038 – Organization ENG990000 – Project STR039 – Activity ID 04-2003-009, (G.O. City \$78,756, State \$78,756). This segment of the project was budgeted at \$1,262,400. The original contract amount of \$1,082,728 plus the total change orders of \$157,512 equals \$1,240,240.

RECOMMENDATION —

Approval of Change Order No. 1 with Van Hauen & Associates, Inc.

BACKGROUND —

On December 16, 2002, by Roll Call 02-2981, the City of Des Moines and the Des Moines Water Works (DMWW) entered into a 28E agreement defining their obligations regarding the construction of the Martin Luther King Jr. Parkway (MLK) and associated impacts to DMWW facilities. This agreement dedicated right-of-way within the DMWW facilities to the City for the construction of the intersection of Fleur Drive and MLK. In addition, the agreement stated the City of Des Moines would relocate an existing DMWW Raw Water Line at an estimated \$1,262,400; and the DMWW would relocate other DMWW distribution facilities at an estimated \$1,361,700.

On March 24, 2003, by Roll Call 03-682, the City of Des Moines awarded a contract for the relocation of the DMWW Raw Water Line to Van Hauen & Associates, Inc. for \$1,082,728. At that time, the DMWW was still finalizing the design of the distribution facilities; and

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the City of Des Moines was finalizing the design of the intersection of Fleur Drive and MLK. During the detailed design of these two projects, additional geotechnical investigations were performed which revealed a previously unknown layer of sediment in the vicinity of the planned intersection fill to be constructed over the DMWW Raw Water Line that would be susceptible to settlement during the construction of the intersection. Upon further investigation and with consultation with DMWW, as per the 28E agreement, it was determined that the alignment of the Raw Water Line should be modified to avoid the areas with predicted excessive settlement. This realignment increases the length of new raw water line to be constructed by the City; however, this realignment will have three major benefits being:

1) The realignment eliminates the need to include expensive special fill and other protective raw water line measures in the intersection construction project that should protect the Raw Water Line from the predicted settlement. These protective measures are estimated to be just as costly as the realignment and not as effective as the realignment.

2) The realignment will reduce future DMWW maintenance cost of the raw water line by relocating more of the line into areas without roadway pavements thus eliminating traffic control and pavement replacement costs.

3) Reduce future traffic disruption on MLK due to raw water line maintenance by relocating more of the line to areas without roadway pavements eliminating the need to remove pavement for maintenance.

This change order plus the original contract amount is still \$22,160 below the budgeted amount for this portion of the project.

