



Agenda Item:
9B

COUNCIL COMMUNICATION

City Manager's Office

GENERAL INFORMATION

Agenda Date: 08/22/05
Agenda Item Type: Resolution

Communication No.:05-477
Roll Call No.:

Submitted by: Jeb E. Brewer, P.E., City Engineer
William G. Stowe, Assistant City Manager/Public Works/Engineering

SUBJECT—

Approving Change Order No. 3 (not to exceed \$60,098.00) and Change Order No. 4 (not to exceed \$83,119.50) with Rasch Construction, Inc. for additional work on the Southeast Ridge Trunk Sanitary Sewer – Phase 1 Project for a total not to exceed \$143,217.50.

SYNOPSIS—

Change Order Nos. 3 & 4 in a total amount not to exceed \$143,217.50 have been negotiated with Rasch Construction, Inc., Joel K. Rasch, Vice President, 1828 Johnson Avenue, Fort Dodge, Iowa, 50501, for additional work on the Southeast Ridge Trunk Sanitary Sewer – Phase 1 Project to provide additional trench stabilization material; for additional costs related to the directional boring beneath U.S. Highway 65/ State Highway 5 east of the interchange with U.S. Highway 69; and to provide slope stabilization along a 135-foot segment of 36" sewer.

FISCAL IMPACT—

Funds for these change orders are provided in the Southeast Ridge Trunk Sanitary Sewer – Phase 1 Project, Account 543040, Fund EN104, Organization PWK990000, Project SAE120, Activity ID 07-2003-010.

RECOMMENDATION—

Approval.

BACKGROUND—

The Southeast Ridge Trunk Sanitary Sewer Project is a multi-phase project designed to extend sewer service into developing areas in or near the southeast quadrant of the City of Des Moines. This change order and the remaining work can be funded from the approved project budget.

This project includes approximately 10,000 linear feet of deep 30" and 36" sanitary sewer. During construction of the deep sanitary sewer, the contractor encountered significantly more unstable soils at the trench bottom than was anticipated, which required the use of extra trench stabilization rock. This

change order includes an estimated \$50,000.00 increase in the quantity of extra foundation rock at the contract unit price per ton.

During directional boring under the highway interchange structure, the contractor encountered buried broken concrete, rocks, and trees, which stopped work progress for three days as the contractor implemented extra procedures to remove the obstructions in the trench. The extra work effort was necessary to connect to the sanitary sewer already bored in place. The \$10,098.00 cost of this change order item is based on negotiated hourly rate fees for the three days of extra work to remove the buried debris.

During construction of a 36" sanitary sewer, the contractor encountered unstable soil in an area that is experiencing slip plane failure of the subsoils. This area of the project is along the north bank of the North River where the terrain rises rapidly at a steep slope of approximately 25 feet vertically in a horizontal distance of 40 feet. This instability was not anticipated and was not detected by prior soil borings in the immediate vicinity. The extra work includes steel sheet-pile, drain tile and over-excavation of the trench. The \$83,119.50 cost of this change order item is based on negotiated price with the Contractor.

The additional work required for construction of the sewer due to the unforeseen soil conditions, buried rubble, and unpredictable high water conditions on the North River will require additional time to complete. The original overall contract completion date for this project was September 15, 2005. The City Engineer recommends that the contract completion provisions for this project be deleted and the new contract completion date be established as October 15, 2005.