



**CITY OF FORT LAUDERDALE
City Commission Agenda Memo
REGULAR MEETING**

#13-1044

TO: Honorable Mayor & Members of the
Fort Lauderdale City Commission

FROM: Lee Feldman, ICMA-CM, City Manager

DATE: August 20, 2013

TITLE: Motion to approve Change Order No. 4-A, 5, and 8 with Baker Concrete Construction, Inc., for additional work and time extension of the contract by 71 days at no additional cost for the bridge replacement project – Southeast 15th Avenue Bridges over the Marchetta and Carlotta Rivers – P10737

Recommendation

It is recommended that the City Commission approve Change Orders 4-A, 5, and 8 with Baker Concrete Construction, Inc., (Baker) for additional work and time extension of the contract by 71 days at no additional cost for the bridge replacement project – Southeast (SE) 15th Avenue Bridges over the Marchetta and Carlotta Rivers – P10737.

Background

On April 3, 2012, the City Commission awarded a contract to Baker for the replacement of the SE 15th Avenue Bridges over Marchetta and Carlotta Rivers in the Lauderdale Harbour's Neighborhood. This project has been substantially completed as of July 3, 2013.

The plans, specifications and cost estimate for this project were prepared by Corzo, Castella, Carballo, Thompson & Salman (C3TS). The construction plans and specifications were reviewed and approved by both the Florida Department of Transportation (FDOT), and the City. However, during the course of construction activities, additional costs were incurred due to several reasons (e.g., typographical error in quantities; estimated versus actual field quantities; unforeseen conditions; oversight and out of scope work).

The additional work described below has been reviewed and approved for funding by FDOT from the savings realized from pre-stressed concrete piling Bid item # 20 which was under-utilized and described in further detail below.

Change Order 4-A

Installation of expansion joint material - \$99,386.30:

The bid quantities depicted 13 linear feet and the project plans reflected 130 linear feet. This was a typographical error. The actual quantity constructed was 124.67 linear feet. FDOT has approved the change (111.67 linear feet @ \$890.00 per linear foot) and is funding this overrun. The payment for the overrun in quantity is based on the established unit price in the bid.

Additional concrete in the 32 inch vertical traffic barrier walls - \$9,687.60:

The bid quantity was 548 linear feet while the actual quantity as measured in the field was 601.82 linear feet. The payment for the over run (53.82 linear feet @ \$180.00 per linear foot) is based on established unit price in the bid.

Additional light fixtures - \$2,040.00:

The bid quantity reflected 36 light fixtures while the engineering plans depicted a total of 40 light fixtures. The payment covers the installation of 4 light fixtures at \$410 per fixture, and is based on the established unit price in the bid.

Additional bulkhead concrete backfill - \$3,219.00:

During the course of construction, larger than anticipated voids were created from the removals of the existing piles, and as such, this required additional concrete. The payment for the overrun (11.1 cubic yards @ \$290.00 per cubic yard) in quantity is based on the established unit price in the bid.

Change Order 5

Installation of drainage control features - \$17,709.44:

This change is required due to the change in elevation at the newly constructed bridges, and to prevent direct storm water run-off into the rivers and onto adjacent property.

Please note, while within the scope of work, stormwater treatment and disposal were omitted in the design. Stormwater management due to runoff from the surface of the bridge should have been an integral part of the project since runoff had to be dealt with and managed appropriately. This issue was observed during construction as well as brought to the attention of the City, FDOT, as well as FDOT's Construction Engineering Inspection firm. Upon discussion with the agencies and the design engineer, FDOT agreed to make this a part of the existing project since it should have been included in the overall project design.

Additionally it would not be cost effective to demobilize and remobilize again to complete this work after the completion of the bridge construction. These stormwater features will prevent the direct discharge of the run-off from the bridge into adjacent receiving water bodies and to adjacent private properties. This item was negotiated by City staff and approved by FDOT for an amount of \$17,709.44.

Change Order 8

Additional milling and resurfacing - \$21,195.00:

The increase in quantity (157 square yards @ \$135.00 per square yard) was necessary as a result of plan revisions to address safety concerns for traffic control and safety as recommended by the Engineer of Record, FDOT oversight engineer and City staff. Temporary asphalt was used to provide a wider taper at all four (4) corners of each bridge. The payment for the over run in quantity is based on the established unit price in the bid.

Additional superpave asphaltic concrete (Type A) - \$14,481.50:

This increase in quantity (26.33 tons @ \$550.00 ton) was necessary as a result of plan

revisions to address safety concerns for the traffic control as recommended by Engineer of Record, FDOT oversight engineer and City staff. The payment for the over run in quantity is based on the established unit price in the bid.

Additional class 1V – superstructure concrete - \$30,420.00:

This overrun in quantity (46.80 cubic yard @ \$650 per cubic yard) was needed as more concrete was required than the quantity established in the bid. The payment for the overrun in quantity is based on the established unit price in the bid.

Installation of aluminum pipe guardrail - \$6,129.86:

This contract change represents the need for safety guard rails at the corners of each bridge. This item was an oversight by the design engineer. This item was negotiated by City staff and approved by FDOT.

Resource Impact

The cumulative amount of change orders 4A, 5 and 8 noted above is \$204,269.20 and has been approved by the FDOT to be funded from the cost savings of \$252,834.45 from the under-utilized contractual bid item # 20. Therefore, there is no fiscal impact to the City associated with this action.

Attachments:

Exhibit 1 – Change Order No. 4-A

Exhibit 2 – Change Order No. 5

Exhibit 3 – Change Order No. 8

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