



AGENDA MEMORANDUM

Future Item for the City Council Meeting of January 17, 2017
Action Item for the City Council Meeting of January 24, 2017

DATE: January 11, 2017

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<p style="text-align: center;">Engineering Construction Contract Corpus Christi International Airport (CCIA) Runway 18-36 and Associated Work</p>
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CAPTION:

Motion authorizing the City Manager, or designee, to execute a construction contract with GL Contracting / Double Rafter H Construction Company, LLC. – Joint Venture of San Antonio, Texas in the amount of \$1,094,167.18 for the CCIA Runway 18-36 and Associated Work for the Base Bid (Asphalt Option) with a 90/10% respective share of contract costs between the FAA and the City.

PURPOSE:

The purpose of this Agenda Item is to obtain authority to execute a construction contract with GL Contracting / Double Rafter H Construction Company, LLC. – Joint Venture of San Antonio, Texas for the CCIA Runway 18-36 and Associated Work.

BACKGROUND AND FINDINGS:

This is a joint Federal Aviation Administration (FAA)/City project with a respective 90/10 percent construction cost sharing. The project includes drainage improvements at one of the antenna sites and rehabilitation and maintenance of multiple taxiways at CCIA. The drainage improvements are critical to ensure continued operations of antenna pad and equipment. Several taxiways and a section of Runway 18 are showing distresses that need to be corrected to avoid disruptions to operations and major reconstruction cost.

The project includes construction and installation of a trench drain and PVC drain pipe at the Runway 18-36 localizer antenna pad, rehabilitation of the Taxiway Alpha pavement, and crack seal of Runway 18/36 and Taxiways Alpha, A1, A2, A3, A4, Mike, November, Papa, and Quebec. These taxiway and drainage improvements service both commercial and private aviation.

The project was bid with two (2) base bids options in an effort to maximize contractor competition. As a result of asphalt material supply issues experienced in September 2016 and limited airport contractors, there was concern that a sole bid would be received. The FAA looks unfavorably on sole bid projects and requires an extensive agency review, resulting in project delays. The FAA was consulted on the approach and concurred with the two bid option. Therefore, the bid documents were developed allowing two base bids; Base Bid A was for Hot Mix Asphaltic Concrete Pavement (HMAC), and Base Bid B was for Portland Cement Concrete Pavement (PCC).

Base Bid A. HMAC is classified as a flexible pavement that matches the existing taxiways. The selection of HMAC is primarily based on the clay subgrade (soils) in Corpus Christi. The clay soils routinely shrink and expand with the wet and dry seasons. The flexible pavement (HMAC surface and limestone base) allows greater shrinkage and expansion without causing premature stress and failure to the pavement. HMAC also requires less joints and potential bumps that improve the ride quality and function for aviation activities.

Base Bid B. PCC is classified as a rigid pavement. The existing taxiway is constructed using Asphalt. As a result introducing a dissimilar pavement will pose additional maintenance challenges. The dissimilar materials and their different expansion rates cause cracking at the interface and elsewhere. Also, the rigid pavement will be subject to premature cracking and failures due to excessive shrinkage and expansion with clay soils. This option was developed primarily to increase competition. The FAA and Staff are recommending the award of Base Bid A with HMAC based on the material performance of the existing taxiways and runways. Both runways and all associated taxiways are HMAC. Converting small sections of the taxiways to PCC will create more complex maintenance practices will be more expensive and labor intensive to maintain. The two-bid approach resulted in 3 bids for the project where we might have otherwise received a sole bid.

On October 19, 2016, the City received proposals from three (3) bidders. All 3 bidders were deemed responsive. The bidders are as follows:

Contractor	Base Bid Asphalt Option	Base Bid Concrete Option
GL Contracting / Double Rafter H Construction Company, LLC. Joint Venture San Antonio, Texas	\$1,094,167.18	\$864,937.87
Bay, LTD. Corpus Christi, Texas	\$1,301,042.13	\$1,374,592.55
SpawGlass Civic Construction Houston, Texas	\$1,375,792.42	\$1,233,492.41
Engineer's Estimate	\$1,001,492.00	\$1,000,000.00

The City's Engineer, KSA Engineers, evaluated the three (3) bids and determined that GL Contracting / Double Rafter H Construction Company, LLC. Joint Venture was the lowest responsive bidder.

ALTERNATIVES:

1. Authorize execution of the construction contract. (Recommended)
2. Do not authorize execution of the construction contract. (Not Recommended)

OTHER CONSIDERATIONS:

The engineering consultant, KSA Engineers (KSA), previously designed portions of this project in association with other projects. KSA was selected for this project under RFQ 2015-09.

CONFORMITY TO CITY POLICY:

Conforms to statutes regarding construction procurement criteria; §2, Article 10 of the City Charter regarding contracts; FY 2016-2017 Airport Capital Improvement Planning (CIP) Budget.

EMERGENCY / NON-EMERGENCY:

Not applicable

DEPARTMENTAL CLEARANCES:

Aviation

FINANCIAL IMPACT:

Operating Revenue Capital Not applicable

Fiscal Year 2016-2017	Project to Date Expenditures (CIP only)	Current Year	Future Years	TOTALS
CIP Budget		\$1,404,026.90		\$1,404,026.90
Encumbered / Expended Amount				
This item		1,094,167.18		1,094,167.18
Future Anticipated Expenditures This Project		309,859.72		309,859.72
BALANCE		\$0.00		\$0.00

Fund(s): Airport Fund Reserves and FAA Grant, CIP 2016-2017, AV 02 & AV 03

RECOMMENDATION:

City staff recommends that a construction contract be executed with GL Contracting / Double Rafter H Construction Company, LLC. – Joint Venture of San Antonio, Texas in the amount of \$1,094,167.18 for the Base Bid (Asphalt Option).

LIST OF SUPPORTING DOCUMENTS:

Project Budget
Location Map
Presentation
Form 1295