



## AGENDA MEMORANDUM

First Reading for the City Council Meeting of April 8, 2014  
Second Reading for the City Council Meeting of April 15, 2014

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**DATE:** April 2, 2014

**TO:** Ronald L. Olson, City Manager

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**FROM:** Daniel Biles, P.E., Executive Director, Public Works  
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### **Construction Contract**

Runway 13-31 Extension / Displacement and Connecting Taxiway

#### **CAPTION:**

Ordinance appropriating \$23,277,531 from the Federal Aviation Administration Grant No. 3-48-0051-050-2013 in the No. 3020 Airport Capital Improvement Fund for the following projects: 13/31 Runway Extension Displacement and Connecting Taxiway, 1,000 ft Extension Displacement and Connection of Taxiways, Expansion of the North GA Apron, Reconstruction of the East GA Apron, Reconstruction of the Air Carrier Taxiway, Extension of Taxiway F, and Runway 18-36, NAVIDS' Site Work and Installation of Gate 10B; changing the FY 2013-2014 Capital Budget adopted by Ordinance No. 029565 to increase revenues and expenditures by \$23,277,531; and authorizing the City Manager or designee to execute a construction contract with Bay, Ltd. of Corpus Christi, Texas in the amount of \$34,766,637.10 for the 13/31 Runway Extension Displacement and Connecting Taxiway Project for the Base Bid plus Additive Alternates 1 – 8.

#### **PURPOSE:**

The purpose of this Agenda Item is to execute construction contract with Bay, Ltd. of Corpus Christi, Texas for the Runway 13-31 Extension / Displacement and Connecting Taxiway project.

#### **BACKGROUND AND FINDINGS:**

This project is located at the Corpus Christi International Airport and addresses safety issues resulting from potential runway incursion incidents. A Taxiway Utilization and Redevelopment Plan recommended the proposed airfield reconfiguration projects for Runway 17-35 and Runway 13-31 to improve the safety of the airfield movement areas where the majority of runway incursions have occurred (the south end of the airfield where Runways 13-31 and 17-35 are coupled). This project is comprised of extending Runway 13 and Taxiway Bravo by 1,000 feet to the north and displacing the threshold of Runway 31 by

1,000 feet to the north. Included in the project is the construction of one new connecting taxiway connecting the new Runway 13 threshold to parallel Taxiway Bravo, reconstruction and reconfiguration of Taxiway B1 Taxiway B5, the construction of a run-up area on the north end of Taxiway Bravo, and blast pad. All paving will be bituminous, matching the existing runway and taxiway paving on the airport. This work will include extensive grading and drainage improvements. As a result of the runway threshold relocations, additional lighting and signage will be installed and all navigation aids will be appropriately relocated. Access drives to the relocated navigation aids will also be constructed. The Distance-To-Go signs will also be replaced. A new Medium Intensity Approach Lighting System with Runway Alignment Lights (MALSR) will be installed to serve the approach end of Runway 13. All taxiway lighting and signage serving Runway 13-31 will be converted to LED. Lastly, Runway 13-31 and all bituminous pavements constructed within this project will be seal coated and marked including the enhanced taxiway centerline markings and hold positions lines and signs.

**Additive Alternate No. 1** is comprised of the construction of two new connecting taxiways, Taxiways B2 and B3, connecting Runway 13-31 to Taxiway Bravo. This work will include the removal of two existing connecting taxiways and extensive grading and drainage improvements of the infield area serving Runway 13-31. As a result of the new locations of these connecting taxiways, new LED lighting and signage will be installed. All new connecting taxiway paving will be seal coated and marked including the enhanced taxiway centerline markings and hold positions lines and signs.

**Additive Alternate No. 2** is comprised of the construction of two new connecting taxiways, Taxiways H and J, connecting Taxiway Bravo to the Terminal Parking Area. This work will include the removal of two existing connecting taxiways and extensive grading and drainage improvements of the infield areas serving the Terminal Parking Area. As a result of the new connecting taxiway locations, new LED lighting and signage will be installed. All new connecting taxiway paving will seal coated and marked.

**Additive Alternate No. 3** is comprised of the construction of two new connecting taxiways, Taxiways H and J, connecting Taxiway Bravo to the Terminal Parking Area. This work will include the removal of two existing connecting taxiways and extensive grading and drainage improvements of the infield areas serving the Terminal Parking Area. As a result of the new connecting taxiway locations, new LED lighting and signage will be installed. All new connecting taxiway paving will seal coated and marked.

**Additive Alternate No. 4** is comprised of the reconstruction of the East General Aviation Apron Phase II from bituminous paving to Portland Cement Concrete paving. The existing bituminous paving section of the entire apron will be removed to the bottom of the existing base and replaced with a new PCC paving section.

**Additive Alternate No. 5** is comprised of the relocation of an existing 48 inch diameter water line currently located under the proposed Runway 13 extension. Included in the work will be excavation for the proposed water line, removal of portions of the existing water line under proposed pavement areas, encasement of the proposed water line under proposed/future pavement areas, and installation of all valves, fittings, and other necessary equipment.

**Additive Alternate No. 6** is comprised of the construction of the North General Aviation Apron Extension. This work will include concrete paving, grading, and minor drainage improvements.

**Additive Alternate No. 7** is comprised of the construction of a new wash rack adjacent to the General Aviation Apron Extension constructed in Additive Alternate No. 1. This work will include grading, paving, electrical and utility improvements, as well as the installation of an oil-water separator and connection to an existing sanitary sewer pump station.

**Additive Alternate No. 8** is comprised of providing line stops for the existing 48 inch diameter water line should the existing gate valves prove to be non-operational during construction.

On March 5, 2014, the City received proposals from one (1) bidder. The single bid is as follows:

<b>Contractor</b>	<b>Base Bid</b>	<b>Additive Alternates 1 - 8</b>	<b>Total Base Bid Plus Add Alts 1 - 8</b>
Bay, Ltd. Corpus Christi, Texas	\$20,151,501.87	\$14,615,135.23	\$34,766,637.10

**ALTERNATIVES:**

1. Execute the construction contract with Bay, Ltd. as proposed.
2. Execute the construction contract with Bay, Ltd. with base bid and Additive Alternate 1, Additive Alternate 2, Additive Alternate 5 and Additive Alternate 8 only. (Not Recommended)
3. Do not execute the construction contract with Bay, Ltd. as proposed. (Not Recommended)

**OTHER CONSIDERATIONS:**

The City's Consultant Engineer, KSA Engineers, Inc. conducted a bid analysis of the one proposal submitted to the City. Based on the information submitted for Special Provisions A-28, A-29, and A-30, Bay, Ltd. of Corpus Christi, Texas has the experience and resources to complete the project.

FAA provides funding for 90% of the project's design and construction. This project conforms with FAA policies and requirements and is to be funded from approved FAA grants.

Grant monies allow for certification of Base Bid, Additive Alternate 1, Additive Alternate 2, Additive Alternate 5, and Additive Alternate 8.

Additive Alternate 3, Additive Alternate 4, Additive Alternate 6, and Additive Alternate 7 will only be constructed pending certification and availability of additional FAA grant monies.

The Contract for Construction and selection process complies with the State Procurement Act and City Policy.

**CONFORMITY TO CITY POLICY:**

Conforms to statutes regarding Request for Bids process; appropriating funds and the FY 2013-2014 Airport Capital Improvement Program budget.

**EMERGENCY / NON-EMERGENCY:**

Not applicable

**DEPARTMENTAL CLEARANCES:**

Aviation Department

**FINANCIAL IMPACT:**

Operating       Revenue       Capital       Not applicable

<b>Fiscal Year 2013-2014</b>	<b>Project to Date Expenditures (CIP only)</b>	<b>Current Year</b>	<b>Future Years</b>	<b>TOTALS</b>
Line Item Budget	\$1,052,000.00	\$16,210,000.00	\$18,625,000.00	\$35,887,000.00
This Ordinance Item		23,277,531.00		23,277,531.00
Revised Budget	<b>1,052,000.00</b>	<b>39,487,531.00</b>	<b>18,625,000.00</b>	<b>59,164,531.00</b>
Encumbered / Expended Amount	1,052,000.00			1,052,000.00
This item		34,766,637.10		34,766,637.10
Future Anticipated Expenditures		4,720,893.90	18,625,000.00	23,345,893.90
BALANCE	\$0.00	\$0.00	\$0.00	\$0.00

Fund(s): Airport CIP Fund Grant, Airport 2012 CIP; Seq. 2013-2014 CIP Nos. AV 6, 8, 9, 11

**RECOMMENDATION:**

City Staff recommends the approval of the construction contract for the Base Bid and Additive Alternates 1 through 8 with Bay, Ltd.

**LIST OF SUPPORTING DOCUMENTS:**

- Project Budget
- Location Map
- Presentation
- Ordinance