



AGENDA MEMORANDUM

First Reading for the City Council Meeting of November 12, 2019
Second Reading for the City Council Meeting of November 19, 2019

DATE: October 17, 2019
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Construction Contract Award
**Corpus Christi International Airport (CCIA) Rehabilitate Terminal Apron Phase III and East
GA Apron Phase IV**

CAPTION:

Ordinance accepting and appropriating Airport Grant #58 in the amount of \$9,445,368; awarding a contract in the amount of \$6,884,574.42 with Airfield Contracting, a Joint Venture between Head, Inc. of Columbus, Ohio and Jackson Construction Services, LLC, of Jacksboro, Texas for the total base bid and additive alternates 1 and 2 for the Corpus Christi International Airport (CCIA) Rehabilitate Terminal Apron Phase III and East General Aviation Apron Phase IV projects, effective upon issuance of notice to proceed, with funding available in the Airport Capital program by acceptance of the grant and; transferring \$1,049,486 as a 10% grant match from the unreserved fund balance of the Airport Operational Fund.

SUMMARY:

This grant was recently announced by Senator John Cornyn. The item awards a construction contract, in compliance with the Airport Master Plan, to address on-going pavement reconstruction at CCIA for the Terminal Apron and East General Aviation (GA) Apron. Design and construction are being completed in a phased approach with the majority of required funding provided through the Federal Aviation Administration grant program. This contract represents the fourth year of a five-year program to rehabilitate CCIA Aprons and future phases are contingent on FAA Funding.

BACKGROUND AND FINDINGS:

The Corpus Christi International Airport (CCIA) is owned, operated, and maintained by the City of

Corpus Christi and is located in Nueces County, Texas. CCIA is made up of over 2,700 acres; 1,100 acres being inside the Airport Operations Area (AOA) and classified as a non-hub, commercial service airport. The existing runway configuration at CCIA includes two runways. Runway 13-31 is oriented to the northwest-southeast and serves as the primary runway. It is 7,508 feet long and 150 feet wide. Runway 18-36 serves as the crosswind runway and is 6,080 feet long and 150 feet wide. CCIA enplanes more than 360,000 passengers annually and experiences over 100,000 annual aircraft operations each year.

The Terminal Apron and East GA Apron are areas of the airport where aircraft are parked, cargo loaded and unloaded, aircraft refueled, and passenger boarded. The Terminal Apron services commercial passenger airlines that access the main terminal and the East GA Apron is essential for maintaining service to general aviation aircraft and supports private terminals and hangars on the east side of the airport. The total pavement area of the two aprons is approximately 161,000 square yards (SY) with approximately 102,000 SY for the Terminal Apron and 59,000 SY for the East GA Apron.

The existing apron pavement is a combination of Portland Cement Concrete (PCC) and Hot-Mix-Asphalt-Concrete (HMAC). It is experiencing severe distress with cracking, rutting and concrete spalling. This deterioration creates a high potential for generating "foreign object debris" (FOD). FOD can cause damage to the aircraft when FOD enters engines or gets propelled at high velocities by aircraft engine exhaust or propeller speed. The pavement cracking allows water penetration into the base and subgrade, accelerating structural degradation of pavement. The existing pavement was not originally designed for the current heavier aircraft and equipment loads.

PROJECT SCOPE:

This construction contract provides for full reconstruction of both the East GA and Terminal Apron pavements with Portland Cement Concrete. There are two additive alternates included with the project that, will reconstruct 20,355 SY of the existing Terminal Apron and 3,725 SY of the existing East GA Apron.

Base Bid Summary:

- Terminal Apron Base Bid consist of reconstructing existing asphalt and concrete pavements with a concrete pavement section on a cement treated base course and providing a new underdrain system.
- East GA Apron Base Bid will consist of reconstructing the existing asphalt and concrete pavement with a concrete pavement section and providing a new underdrain system.

Additive Alternate Summary:

- Additive Alternate I for the Terminal Apron consist of additional limits of reconstruction.
- Additive Alternate II for the East GA Apron consist of additional limits of reconstruction.

The Terminal Apron Reconstructed pavement section will consist of the following layers:

- 15-inch Portland Cement Concrete (With Compression Joint Sealant) (P-501)
- 10-inch Cement Treated Base Course (P-304)
- Existing Lime-Treated Subgrade (to remain)

The East GA Apron Reconstructed pavement section will consist of the following layers:

- 15-inch Portland Cement Concrete (With Compression Joint Sealant) (P-501)
- 10-inch Cement Treated Base Course (P-304)
- 12-inch Lime-Treated Subgrade (P-155)

PROJECT TIMELINE:

2019										2020								
M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N
BID										CONSTRUCTION								

Projected Schedule reflects City Council award in November 2019 with anticipated completion in November 2020.

COMPETITIVE SOLICITATION PROCESS:

On June 12, 2019 the City received two bids as summarized below:

BID SUMMARY

	Airfield Contracting Inc.	SpawGlass	*Engineer's Estimate
Base Bid 1	\$6,507,180.62	\$7,061,206.52	
Additive Alt 1	\$171,107.00	\$200,962.40	
Additive Alt 2	\$206,286.80	\$210,917.40	
Total	\$6,884,574.42	\$7,473,086.32	\$7,714,000.00

*Engineer's estimate includes Base Bid plus all additive alternates.

BID EVALUATIONS:

The City analyzed the bids in accordance with the bid documents and determined that Airfield Contracting Inc., of Ohio, is the lowest responsive and responsible bidder.

ALTERNATIVES:

This Airport Master Plan approved project is part of an on-going program to replace asphalt with concrete on the Terminal Apron and for the East General Aviation Apron. The FAA has been responsible for 90% of the construction costs. City Staff is recommending approval of this contract as is, due to the need to replace the asphalt and due to the FAA cost-sharing benefits.

FISCAL IMPACT:

This item proposes to award a construction contract in the amount of \$6,884,574.42 with Airfield Contracting, a Joint Venture between Head, Inc. of Columbus, Ohio and Jackson Construction Services, LLC, of Jacksboro, Texas for the base bid and additive alternates 1 and 2 for the Corpus Christi International Airport (CCIA) Rehabilitate Terminal Apron Phase III and East General Aviation Apron Phase IV projects. This contract will be effective upon issuance of notice to proceed. This is an approved CCIA Capital Improvement Project and a joint Federal Aviation Administration (FAA)/City project with a respective 90/10 percent construction cost sharing. Funding is available through acceptance, appropriation and transfer of the grant to a capital fund, with the City's 10% match available through the appropriation and transfer of \$1,049,486 from the unreserved fund balance of the Airport Operational Fund.

This grant was awarded to the City of Corpus Christi in September 2019. The FAA closely monitors administration of grant funds from the time of grant award to financial and physical close-out of the project. Grant funds will only be used as outlined in the grant application and defined in the grant assurance; and, includes any associated construction-related costs such as material testing and inspection. Grant proceeds remaining after satisfactory completion of this project can be utilized on future phases of the Terminal Apron and East GA Apron work contingent upon FAA approval.

Funding Detail:

Funding details include:

Fund: **Airport Capital Improvement Program Grants Fund (Fund 3020)**
Mission Element: Airport Development (ME #274)
Projects: CCIA Rehabilitate Terminal Apron Phase III (Project #18148A)
CCIA Rehabilitate East GA Apron Phase IV (Project #18149A)
Account: Construction (550910)
Activity: 18148-A-3020
18149-A-3020
Amount: #18148A: \$4,945,142.07
#18149A: \$1,250,974.90

Fund: **Airport Capital Reserve Fund (Fund 3018)**
Mission Element: Airport Development (ME #274)
Projects: CCIA Rehabilitate Terminal Apron Phase III (Project #18148A)
CCIA Rehabilitate East GA Apron Phase IV (Project #18149A)
Account: Construction (550910)
Activity: 18148-A-3018
18149-A-3018
Amount: #18148A: \$549,460.23
#18149A: \$138,997.22

RECOMMENDATION:

Staff and the design consultant, Garver, LLC., recommend awarding the construction contract for the Corpus Christi International Airport (CCIA) Rehabilitate Terminal Apron Phase III and East General Aviation Apron Phase IV projects, in the amount of \$6,884,574.42 for the total base bid and additive alternate 1 and 2 with Airfield Contracting, a Joint Venture between Head, Inc. of Columbus, Ohio and Jackson Construction Services, LLC, of Jacksboro, Texas, based on the acceptance and appropriation of the grant and city match. The construction duration is planned for 12 months from issuance of the Notice to Proceed to begin construction in November 2019 with completion in November 2020.

LIST OF SUPPORTING DOCUMENTS:

Ordinance
Location Maps
Presentation
Bid Tab
Letter of Recommendation