

**MEETING DATE/TYPE:** VOTING MEETING 7-9-19

**DEPARTMENT:** Airport

**AGENDA ITEM:** Acceptance of Federal Aviation Administration Grant number 3-04-0030-040-2019 in the amount of \$807,500.00 and Arizona Department of Transportation matching grant in the amount of \$21,250.00 for Design Services of the Taxiway C Relocation, Hot Spot #3 & 4 Mitigation and related improvements.

**FUNDING SOURCE:** Airport Fund

**Approved By:** Michael Lamar, City Manager

### Item Summary

In December 2018, a grant application was submitted to the Federal Aviation Administration (FAA) for design services associated with relocation of Taxiway C to meet the FAA minimum standard of 400-foot separation from Runway 3R-21L centerline, along with the mitigation of Hot Spots No. 3 & 4; and modifications identified in the Airport Master Plan.

On February 12, 2019, Council approved Authorization of Services No. 5 with Dibble Engineering (City Contract #2019-069A5) for payment in an amount not to exceed \$840,167.00. Due to the complexity of the project and extended time needed for design, Dibble Engineering began design in advance of the issuance of Federal and State grants. With acceptance and issuance of the FAA and State grants, payments will now begin being paid to Dibble.

The total project cost for design is estimated at \$850,000.00; with the FAA share (95%) at \$807,500.00, State share (2.5%) at \$21,250.00, and the City share (2.5%) at \$21,250.00.

### Background

Existing parallel Taxiway C is approximately 325 feet from Runway 3R-21L (centerline to centerline). In accordance with the latest edition of FAA Advisory Circular (AC) 150/5300-13A Table 3-5 *Runway Design Standards Matrix*, the minimum separation distance between a runway and a parallel taxiway is 400 feet, for Aircraft Approach Category and Airplane Design Group C-III (commercial service aircraft).

During the *Runway 3R-21L Safety Area Improvement* project that was completed in

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2013, portions of Taxiway C were relocated at connecting Taxiways C1 and C7 to the minimum standard of 400 feet. This project will now re-align the remainder of Taxiway C to the minimum safety standards.

In addition, it was determined during past and recent annual Airport Capital Improvement Planning (ACIP) meetings with ADOT, FAA, and PRC that Hot Spot No. 3 and 4 should be mitigated during the Taxiway Relocation project, as they are adjacent to that project area. Hot Spots are defined as locations on an airport movement area with a history of potential risk of collision or runway incursion, and where heightened attention by pilots and drivers is necessary.

This project will also include other necessary improvements to the existing outdated and failing civil and electrical elements including new drainage infrastructure, taxiway lighting and signage, and the addition of Runway End Identifier Lights at the approach end of Runway 21R to mitigate wrong surface landings.

The timeline for the design and bid phase of this project encompasses an approximate 13-month design phase (between February 2019 and March 2020); a one-month bid phase (April 2020); and receiving Federal and State Grants for future construction in July 2020.

A grant application was submitted to the FAA for funding in December 2018. On June 5, 2019, the Department of Transportation and FAA announced a grant award in the amount of \$807,500.00 for this project and on June 20, 2019, Airport Administration received the Grant Agreement and offer. The required Airport Sponsor Grant Assurances are included within the grant agreement.

**Financial Impact**

The total project cost for design includes the following reimbursable expenses:

Dibble Engineering Design Services (2019-069A5):	\$ 840,167.00
Sponsor Administration Costs:	\$ 9,833.00
<b>TOTAL</b>	<b>\$ 850,000.00</b>

The funding levels for this project are as follows:

FAA Share (95%) -	\$ 807,500.00
State Share (2.5%) -	\$ 21,250.00
City Share (2.5%) -	\$ 21,250.00
<b>TOTAL</b>	<b>\$ 850,000.00</b>

Funding for the City Share is available within the Airport Enterprise Fund as budgeted in Capital planning for FY20.

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**Recommended Action: MOVE** to accept Federal Aviation Administration Grant number 3-04-0030-040-2019 in the amount of \$807,500.00 and Arizona Department of Transportation matching grant in the amount of \$21,250.00 for Design Services of the Taxiway C Relocation, Hot Spot #3 & 4 Mitigation and related improvements.