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MEMORANDUM

TO: Maxine Snow
FROM: Mike Burns, P.E. *MB*
COPY: Romin Khavari, P.E.; Randy Byers; Bill Crolley
DATE: Monday, March 20, 2017
RE: PO #C16094: North Side Drainage Study (PROJECT #1) and TW 'B' Culvert Replacement (PROJECT #2)
Grand Prairie Municipal Airport

Maxine,

As requested, this memo should provide you some project background and detail to support our Amendment to our previous Agreement for the above referenced project:

North Side Drainage Study (PROJECT #1) – Final drainage study was completed and submitted to the City of Grand Prairie on February 3, 2017. The study report provided a very comprehensive drainage analysis of the existing drainage systems on the north end of the airport. Based on City and Airport reviews, it was concluded that a minimum improvement option would be considered for consideration for future drainage improvements. This minimum improvement option would repair existing channel erosion problems and improve the airport's ability to maintain the channel in a safer condition.

Our study estimate of probable construction costs for this minimal improvement options is approximately **\$270,000**.

TW 'B' Culvert Replacement (PROJECT #2) – Final construction plans were completed and submitted to the City of Grand Prairie on January 31, 2017. This project provided for the replacement of existing deteriorated pipe culverts under TW B and provided increased drainage capacities at the Grand Prairie Municipal Airport. Our final opinion of probable construction costs for this improvement project is approximately **\$185,000**. Upon one more final review of the plans by city staff, this project was ready to advertise for bids. City staff agreed that this project should be publicly advertised and bid and not use City of Grand Prairie on-call contracted contractors.

At a project review meeting on March 8, 2017, City and Airport staff agreed to combine these two projects into one construction project package and try to get this project bid and under construction by this summer. The intent is to utilized existing and available insurance payments the airport has received for drainage damage and the \$150,000 NPE funds from TxDOT Aviation Division. Total estimated construction cost for both projects would be approximately **\$450,000**.

KSA is working to prepare an **Amendment No. 1** to the Agreement for Professional Services to prepare a North Side Drainage Improvement Project construction package. Professional services included in this Amendment will include design services to prepare a construction package that will include the channel improvements from the drainage study recommendations and the TW 'B' Culvert Replacement; construction administration; construction materials testing, resident project representative; and project closeout services. KSA anticipates an Amendment amount of **\$75,000** for these above listed services.