



## Legislation Text

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**File #:** 21-176, **Version:** 1

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**STRATEGIC PRIORITY:** Mobility Solutions, Infrastructure, and Sustainability  
**AGENDA DATE:** April 14, 2021  
**COUNCIL DISTRICT(S):** All  
**DEPARTMENT:** Water Utilities Department  
**EXECUTIVE:** Majed Al-Ghafry

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### **SUBJECT**

Authorize an Interlocal Agreement with the North Central Texas Council of Governments for the creation of digital aerial orthophotography, LiDAR, and elevation contours - Not to exceed \$178,332.00 - Financing: Stormwater Drainage Management Fund

### **BACKGROUND**

The City of Dallas has participated with the North Central Texas Council of Government's (NCTCOG) Spatial Data Cooperative Program Product Purchase since the 1990s. The City's Geographic Information System (GIS) has archived digital orthophotography from 1995, 1997, 2000, 2003, 2005, 2007, 2009, 2011, 2013, 2015, 2017 and 2019 derived from Interlocal Agreements between the City of Dallas and NCTCOG.

A digital orthophoto map is a mosaic of digital aerial photographs oriented to the correct geographical locations in the city. It has a known and consistent time and accuracy. LiDAR is a map of elevation points which are used to create 3-D models and elevation contour maps. Orthophoto data has multiple uses in the City. It is primarily used for determining impervious surface areas required for storm drainage fees and as a base map for the City's GIS. Data users can discern features such as parking meters, street markings, large signs, fence lines, hydrants, manholes, right of way encroachments. Additionally, they can be used to track historical trends on growth, new subdivisions, improve emergency response, tactical strategy, as well as assisting in coordination with neighboring jurisdictions. LiDAR is utilized to create elevation contours. It is used to determine floodplain locations throughout the City to update the floodplain maps to be more accurate which protects life and property. The data assists in accurately designing bridge and drainage structures. It can also be used to assist with determining impervious surface areas required for storm drainage fees.

NCTCOG will select the vendor and be the technical owner of the data. Participation in the regional procurement and data share across multiple municipalities reduces the City's costs in obtaining this data independently.

**PRIOR ACTION/REVIEW (COUNCIL, BOARDS, COMMISSIONS)**

On August 28, 2019, City Council authorized an Interlocal Agreement with NCTCOG for the creation of digital aerial photography by Resolution No 19-1285.

**FISCAL INFORMATION**

Fund	FY 2021	FY 2022	Future Years
Stormwater Drainage Management Fund	\$178,332.00	\$0.00	\$0.00

**OWNER**

**North Central Texas Council of Governments**

Mike Eastland, Executive Director