



# Metropolitan Nashville and Davidson County, TN

## Legislation Text

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**File #:** RS2022-1336, **Version:** 1

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A resolution approving a joint funding agreement with the United States Department of the Interior, United States Geological Survey, to acquire approximately 525 square miles of current LiDAR derived high-resolution elevation data for Davidson County, Tennessee.

WHEREAS, the United States Department of the Interior, United States Geological Survey (“USGS”) and the Metropolitan Government of Nashville and Davidson County (“Metro”) will collaborate to acquire high-resolution digital elevation data developed from airborne lidar (Light Detection and Ranging) for an area of approximately 525 square miles; and,

WHEREAS, the data will be used to generate Digital Elevation Models (“DEMs”) for use in dam safety assessments, engineering design and design reviews, conservation planning, research, floodplain mapping, and hydrological modeling, utilizing the lidar technology; and,

WHEREAS, the acquisition of current LiDAR derived high resolution elevation data for Davidson County will also support homeland security requirements of the National Geospatial-Intelligence Agency (“NGA”), water resources flood-inundation studies of the U.S. Geological Survey and the U.S. Army Corps of Engineers, will support the National Spatial Data Infrastructure (“NSDI”), and will advance United States Geological Survey efforts related to The National Map and the National Elevation Dataset.

NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE METROPOLITAN GOVERNMENT OF NASHVILLE AND DAVIDSON COUNTY:

Section 1. The joint funding agreement for acquisition of LiDAR derived high-resolution elevation data, between the United States Department of the Interior, United States Geological Survey, and the Metropolitan Government of Nashville and Davidson County, attached hereto and incorporated herein, is hereby approved and the Metropolitan Mayor is authorized to execute the same.

Section 2. This resolution shall take effect from and after its final passage, the welfare of The Metropolitan Government of Nashville and Davidson County requiring it.

### Analysis

This resolution approves a joint funding agreement with the United States Department of the Interior, United States Geological Survey, to acquire approximately 525 square miles of LiDAR (Light Detection and Ranging) derived high-resolution elevation data for Davidson County.

This LiDAR data will be used to generate Digital Elevation Models (“DEMs”) for use in dam safety assessments, engineering design and design reviews, conservation planning, research, floodplain mapping, and hydrological modeling. This data will also support homeland security requirements of the National Geospatial-Intelligence Agency (“NGA”), water resources flood-inundation studies of the U.S. Geological Survey and the U.S. Army Corps of Engineers, will support the National Spatial Data Infrastructure (“NSDI”), and will advance United States Geological Survey efforts related to The National Map and the National

Elevation Dataset.

*Fiscal Note: The cost to the Metropolitan Department of Information Technology Services to acquire high-resolution digital elevation data developed from airborne LiDAR for an area of approximately 525 square miles is \$218,962.14.*