

**APPENDIX C PRICING INDEX
DIR-TSO-3423
AECOM TECHNICAL SERVICES, INC.**

CATEGORY: GEOSPATIAL PRODUCTS

<u>NOTATION: For further Information and Pricing of CATEGORY: GEOSPATIAL PRODUCTS (Imagery), contact the Texas Natural Resources Information System (TNRIS) at StratMap@twdb.texas.gov.</u>			
AREAS OF INTEREST			
SW = Statewide - State of Texas (70,001 sq miles or Greater)			
SR = Super Regional - Ecological Areas, East Texas, West Texas, etc. (5,001 - 70,000 sq miles)			
R = Regional - County, Multi County, Large Watershed, etc. (251 - 5,000 sq miles)			
L = Local - Corridor, Municipalities, Parks, etc. (0 - 250 sq miles)			
CORE DATASETS			Percentage % Discount Per Sq Mile
Aerial Imagery	Orthoimagery	Area of Interest	
		Statewide	5.00%
		Super Regional	5.00%
		Regional	5.00%
		Local	5.00%
Aerial Imagery (1 ft GSD 2014)	Archive Orthoimagery	Area of Interest	
		Statewide	22.00%
		Super Regional	12.00%
Satellite Imagery	Archive	Area of Interest	
		Statewide	19.50%
		Super Regional	8.50%
Satellite Imagery	Tasking	Area of Interest	
		Statewide	19.50%
		Super Regional	8.50%
Elevation	Lidar - Aerial	Area of Interest	
		Statewide	5.00%
		Super Regional	5.00%
		Regional	5.00%
		Local	5.00%

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DIR-TSO-3396
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CATEGORY: CUSTOMIZED GEOSPATIAL DATA SERVICES

Contact Vendor directly for pricing and availability of this CATEGORY: CUSTOMIZED GEOSPATIAL DATA SERVICES				
AREAS OF INTEREST				
SW = Statewide - State of Texas (70,001 sq miles or Greater)				
SR = Super Regional - Ecological Areas, East Texas, West Texas, etc. (5,001 - 70,000 sq miles)				
R = Regional - County, Multi County, Large Watershed, etc. (251 - 5,000 sq miles)				
L = Local - Corridor, Municipalities, Parks, etc. (0 - 250 sq miles)				
CUSTOMIZED GEOSPATIAL DATA SERVICES - PER STATEMENT OF WORK				
CATEGORY / DESCRIPTION	Product/Service Number	Area of Interest	Product Description	DIR Customer Discount % off of SOW Quoted Cost
Data Development - Building Information Modelling (BIM)	DD-BIM	L	Create a BIM/retro-BIM from geospatial data and integrate them into GIS data products.	10.00%
Data Development - Ground Control	DD-GC	SW, SR, R, L	Perform ground control collection and provide survey report.	10.00%
Data Development - Hardcopy Scanning	DD-HS	SW, SR, R, L	Scanning of hardcopy maps to create digital versions. Additionally, the maps can be georeferenced to a datum and projection.	10.00%
Data Development - Hydrography	DD-HYDRO	SW, SR, R, L	Development of hydrography layer, such as the National Hydrography Dataset (NHD) from LiDAR, orthoimagery, and community base data. Products include high and local resolution hydrology datasets of surface water including direction of flow. Additionally surface slope rasters can be used along with extracted slope, and high and low elevation points for closed polygon hydro features to estimate change in volume of water over time. Final data can be included in the NHD.	10.00%

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CATEGORY / DESCRIPTION	Product/Service Number	Area of Interest	Product Description	DIR Customer Discount % off of SOW Quoted Cost
Data Development - Land Use/Land Cover	DD-LULC	SW, SR, R, L	Land Use/Land Cover - Development of high resolution land use/ land cover rasters from multispectral aerial imagery, LiDAR, and planimetric data. Impervious surface - Creation of impervious surface planimetric datasets using orthophotography, LiDAR or other existing geospatial data. Resource mapping - Perform wetland and unique habitat delineation. Canopy cover - Development of high-resolution canopy cover from multispectral aerial imagery.	10.00%
Data Development - LiDAR Point Cloud Classification	DD-LiDAR	SW, SR, R, L	Detailed classification of LiDAR point clouds, beyond what was classified during initial project specifications.	10.00%
Data Development - Planimetrics - Field Survey or Mobile Derived	DD-P-FS	SW, SR, R, L	Development of planimetric data captured from field surveys. This type of collection can support asset management and utility mapping.	10.00%
Data Development - Planimetrics - LiDAR Derived	DD-P-LiDAR	SW, SR, R, L	Perform planimetric data captured from LiDAR.	10.00%
Data Development - Planimetrics - Stereo and Orthoimagery Derived	DD-P-O	SW, SR, R, L	Perform planimetric data captured from 3D stereoimagery or 2D orthophotography.	10.00%
Data Development - Topographic Data Capture	DD-TOPO	SW, SR, R, L	Perform topographic data capture from 3D stereoimagery.	10.00%
Data Development - UAV raw data processing	DD-UAV	L	Processing of raw UAV imagery into orthophotography, digital surface models, and surface point clouds.	10.00%
Data Development - UAV data derivative product development	DD-UAV-D	L	Creation of classified point clouds from UAV imagery as well as digital elevation models and contours.	10.00%

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Data Development - Digitization	DD-DIG	SW, SR, R, L	The development of GIS data layers through the digitization of hard copy images, maps, surveys, or other reporting methods.	10.00%
Data Development - Geodatabase Design, Conversion, Attribution, and Validation	DD-GDB	SW, SR, R, L	Design and build simple to complex geodatabases. Perform data attribution and conduct data validation to ensure compliance with specified data standards. Migrate geodatabases for conversion and upgrading purposes.	10.00%
Spatial Analysis - Flood Related Mapping Support	DD-FLOOD	SW, SR, R, L	Perform flood related mapping analysis and create standard derivative products. A common post flood need is the development of post flood, structure substantial damage estimate (SDE) datasets. AECOM designed the SDE FEMA tools and has additionally developed dashboards and customized field collection tools that ensure quality data captured at a much more reduced cost and quicker timeline.	10.00%
Spatial Analysis - Geospatial Data Analytics	DD-GDA	SW, SR, R, L	Analysis of geospatial data including LiDAR, orthophotography, multispectral imagery, hyperspectral imagery, IFSAR, or thermal imagery. Examples of deliverable outputs might include volumetric analysis, vegetation encroachment of transmission lines, distribution of feature analysis, riparian buffer density, change detection, predictive analysis, site suitability analysis/selection, etc.	10.00%
Spatial Analysis - Hazard Model Development	DD-HMD	SW, SR, R, L	By leveraging geospatial data and geographic information systems predictive hazard models can be developed to address natural or man-made events.	10.00%

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Spatial Analysis - Historic Photo Analysis	DD-HPA	SW, SR, R, L	Analysis of hardcopy historical photos including feature extraction.	10.00%
QA/QC - LiDAR Accuracy Assessment	QA/QC - LiDAR	SW, SR, R, L	Detailed accuracy assessment of LiDAR data to ensure horizontal and vertical accuracy requirements are attained. Assessments are performed against all currently accepted accuracy standards as well as project specific accuracy standards.	10.00%
QA/QC - Orthophotography Accuracy Assessment	QA/QC-O	SW, SR, R, L	Detailed accuracy assessment of orthophotography data to ensure horizontal accuracy are attained. Assessments are performed against all currently accepted accuracy standards as well as project specific accuracy standards.	10.00%
Independent QA/QC - LiDAR	IND QA/QC - LiDAR	SW, SR, R, L	Comprehensive review of LiDAR data for deviations from specifications.	10.00%
Independent QA/QC - Orthophotography	IND QA/QC -O	SW, SR, R, L	Comprehensive review of orthophotography data for deviations from specifications.	10.00%
Independent QA/QC - Planimetrics and/or Topographic Mapping	IND QA/QC - P - TOPO	SW, SR, R, L	Comprehensive review of planimetric and topographic mapping data for deviations from specifications.	10.00%
Independent QA/QC - Land Use-Land Cover/Impervious Surface	IND QA/QC - LULC	SW, SR, R, L	Comprehensive review landuse-landcover and impervious surface data for deviations from specifications.	10.00%
System Implementation - GIS Assessment/Health Check	SI-HC	SW, SR, R, L	Comprehensive review of existing GIS systems to ensure optimal performance.	10.00%

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System Implementation - Data Needs Assessment	SI-NA	SW, SR, R, L	Comprehensive needs assessment of existing geospatial data and GIS data layers.	10.00%
System Implementation - Geospatial Application Development	SI-APPDEV	SW, SR, R, L	GIS development leveraging a variety of technology platforms to provide direct access to critical data resources through an internet browser or mobile device.	10.00%
System Implementation - Geospatial Web Hosting Services	SI-HOST	SW, SR, R, L	Host and support Web GIS Applications running Flex, Silverlight or the HTML/CSS and JavaScript web environments , using for example ArcGIS Server in the AECOMOnline Enterprise Cloud environment.	10.00%