



March 2, 2019

MEMORANDUM OF UNDERSTANDING

WV Statewide Imagery Program | State Cooperative Purchase Contract

**** Roane County Aerial Imagery ****

This Memorandum of Understanding (MOU) sets forth the terms and understanding among the contracted state Vendor (Blue Mountain / Thrasher Group), the State of West Virginia (West Virginia University), and the local government beneficiary (Roane County, West Virginia) for the following professional services: **2019 countywide four-inch Aerial Imagery at a cost of \$10,867.**

General Specifications

Area to be Covered	Roane County, WV
Projected Flight Time	Leaf Off (February - April 2019)
Ground Sample Distance	4-inch pixel resolution
Coordinate System	WV State Plane South, NAD83, Units in Feet

Image Acceptance Criteria

Horizontal Accuracy	ASPRS Class 1 Standard
Sun Angle	Greater than 30%
Image Quality	Clear and sharp in detail. Samples will be submitted for approval. Refer to state contract for more information. The imagery will not be acquired if the weather and collection conditions are not ideal.
Ortho-corrected	Ortho-rectification corrects for tip or tilt of the aircraft and displacement in the photograph caused by changes in the ground elevation. The correction is necessary when using aerial imagery in computer mapping systems.

Project Deliverables

Product(s)	Compressed countywide mosaic in MrSID format, Ortho imagery tiles (TIFF or JPEG)
Delivery Date	No later than 10/1/2019
Documentation	Basic metadata documenting sources, capture dates, processes, QA techniques, etc.
Ownership	County and State. There are not restrictions with whom the County or State may share the imagery.

Price and Payment Information

- Total cost to the County is \$10,867
- The County will pay upon receipt of the aerial imagery deliverables
- The County will pay for the imagery over one budget cycle
- Payments made to Vendor Blue Mountain Inc.

FEMA Grant Cost Share Information

- Total 50% cost share by FEMA / WVDHESM is \$10,868.
- Cost share funding is from FEMA’s Hazard Mitigation Grant Program, Statewide Multi-Hazard Risk Assessments (TEIF/TEAL), Project Number: FEMA-4273-DR-WV-0031. The grant recipient is the State Hazard Mitigation Office, WV Division of Homeland Security and Emergency Management; grant sub-recipient the WV GIS Technical Center at West Virginia University.
- Current leaf-off aerial imagery is an important base map layer for pinpointing and identifying structures in at-risk hazard zones.

Price Table

County	Square Miles	Spatial Resolution	Cost per square mile	County Share	FEMA Grant Share	Total Cost
ROANE COUNTY	483	4-inch	\$45	\$10,867	\$10,868	\$21,735

Partner Responsibilities


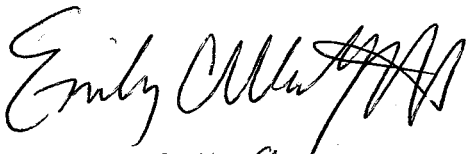
RESPONSIBILITIES
<p>VENDOR: [Blue Mountain Inc., part of Thrasher Group]</p> <ul style="list-style-type: none"> • Lead technical unit for coordinating, acquiring, and processing all deliverables • Complete aerial imagery tasks and deliverables in accordance with WVU State Contract U19Thrasher dated February 27, 2019. Follow standards, specifications, QA/QC, and pricing schedules in accordance with same contract. <ul style="list-style-type: none"> ◦ http://data.wvgis.wvu.edu/pub/temp/FEMA/FRA/Contracts/WV_State_Aerial_Imagery_Contract_U19THRASHER_20190227.pdf • Coordinate with the State Program Manager on priorities/schedules and deliverables • Submit a Statement of Work/Memorandum of Understanding for each mapping activity to include specifications, timelines, budget, and deliverables for each jurisdiction for approval by State and local authorities • Execute start-up and closing meetings for each mapping activity • Submit monthly processing progress reports to State and County during acquisition and processing phases of project
<p>STATE: [West Virginia University]</p> <ul style="list-style-type: none"> • Assist with the Memorandum of Understanding/Statement of Work agreements • Administer WV Statewide Imagery Program (WVSIP)

RESPONSIBILITIES

LOCAL: [Roane County]

- Provide operational and payment points of contact for the project
- Review and approve the Statement of Work/Memorandum of Understanding that includes specifications, timelines, and deliverables for each jurisdiction
- Provide input to the vendor on file formats and coordinate systems for computer-aided dispatch (CAD), geographic information systems, etc.
- Upon project completion:
 - Send a Letter of Appreciation to grant sponsors using a letter template provided by the State
 - Complete an online survey on client satisfaction regarding overall project implementation and deliverables

Partner Signatures

Partner	Authorized Representative	Signature and Date
Vendor	<p>Jacob Darrah Senior GIS & Remote Sensing Manager Blue Mountain, part of The Thrasher Group (304) 662-6486 jdarrah@thethrashergroup.com</p>	
State	<p>Kurt Donaldson Manager WV GIS Technical Center West Virginia University (304) 293-9467 kdonalds@wvu.edu</p>	<p>Kurt Donaldson</p> <p><small>Digitally signed by Kurt Donaldson DN: cn=Kurt Donaldson, o=West Virginia University, ou=WV GIS Technical Center, email=kdonalds@wvu.edu, c=US Date: 2019.03.02 23:15:56 -05'00'</small></p>
Local	<p>Emily Westfall Roane County Assessor (304) 927-3020 ewestfall@wvassessor.com</p> <p><< Billing Contact >> Same as above</p>	 3-5-19