

PLATTE COUNTY MISSOURI
REQUEST FOR PROPOSALS

**This Professional Services Agreement for
the procurement of 3 inch Rectified Color
Oblique and 3 Inch Color
Orthophotography Imagery**

FOR

DAVID COX
PLATTE COUNTY ASSESSOR

**SEALED PROPOSALS MARKED "2022 Imagery"
MUST BE RECEIVED**

AT THE

**PLATTE COUNTY CLERKS OFFICE
415 THIRD STREET ROOM 116
PLATTE CITY, MISSOURI 64079**

ON OR BEFORE

**3:00 p.m. Central Daylight Time
Friday November 12, 2021**

Late proposals and emails will not be accepted.

PLATTE COUNTY, MISSOURI 2022 IMAGERY

TABLE OF CONTENTS

Section	Page
1.0 General Information and Agreements	4
1.1 Introduction	
1.2 Background Information	
1.3 Disaster Coverage	
1.4 Mandatory Interface	
2.0 Schedule of Events / Key Dates	5
3.0 Vendor Communications	5
4.0 Vendor Experience and Capability	5
5.0 Specifications for Rectified Color Oblique and Color Orthogonal Imagery	5-8
6.0 Additional Information	8
7.0 Required Signature Page	9
8.0 Bid Amount	9
9.0 Mandatory References	10

1.0 General Information and Agreements

1.1 Introduction

This Request for Proposal (RFP) entitled "2022 Aerial Imagery" announces the Platte County, Missouri, Assessor's intent to purchase a 3 inch Oblique and a 3 inch Orthophotography of the vacant land and both Residential and Commercial structures within the county. The purpose of this RFP is to solicit proposals from qualified vendors who can provide Imagery AS SPECIFIED.

1.2 Background Information

The Platte County Assessor has a need for a 2022 Aerial that will allow for accurate measuring of length, width and height of all images/structures and collection of data, clear and concise focus for analyzing all sides of any feature in the image.

Platte County is 427 square miles in size and with an estimated population of 104,000. The county consists of over 44,000 real property parcels.

1.3 Disaster Coverage

Disaster coverage must be included in the contract without charge to cover F4 or greater tornadoes two years following the contract dated date.

1.4 Mandatory Interface

The vendor must provide an enterprise desktop and full suite of cloud solutions to access our imagery and local GIS data. Oblique imagery and GIS parcel data must be usable via mobile application (iOS and Android compatible). In addition the vendor must provide integrations into ESRI products including ArcGIS Desktop, ArcGIS Pro, and/or Arc Server. It is our intension to display both ortho and oblique imagery on our Beacon website. Additionally, vendor must have a proven track record and willingness to integrate imagery through any other third party vendor.

2.0 Anticipated Schedule of Events / Key Dates

Events	Date / Time
RFP emailed to vendors	10/18/2021
Last day for Vender Questions	11/10/2021
3:00 RFP Due at County Clerk's Office, 415 Third St, Platte City, Mo	11/12/2021
Due Diligence and Evaluation	11/12/2021 to 11/30/2021
Contract Award	12/06/2021

3.0 Vendor Communications

After the RFP issue date and thereafter, all communications between vendors and Platte County must be by email. No oral questions will be acknowledged or answered. All questions must be submitted by email no later than November 10th to Brandon Hollinberger at **brandon.hollinberger@co.platte.mo.us**

4.0 Vendor Experience and Capability

The vendor shall provide five (5) business references including a minimum of 2 First Class Missouri Counties On page 10 of this RFQ.

Specifications for Rectified Color Oblique and Color Orthogonal Imagery

1.) General

- Upon the date of commencement of the contract, Orthophotography and oblique imagery shall be captured during the winter months, December through February, when deciduous trees are free of leaves.
- Orthophotography and oblique imagery shall be captured simultaneously.
- The ortho imagery must be geo-referenced to the North American Datum 1983 (NAD83), StatePlane Missouri West FIPS expressed in U.S. Survey Feet.
- Vendor shall use a US Geological Survey (USGS) certified aerial camera system to capture imagery.
- Vendor must provide early access to the oblique imagery, via a web application within 2 weeks of the individual flight days.

- Access to neighboring county's imagery (Clay, Buchanan, and Clinton in Missouri and Leavenworth, Atchison, and Wyandotte in Kansas).
- Final delivery of all imagery products shall be within 45 days or less from final flight.
- As part of the final delivery the vendor shall provide an external portable hard drive to the County containing ortho-mosaic tiles in GeoTIFF or TIFF format, area-wide ortho-mosaic in ECW or MrSID format and supporting data.
- Allow for the cost of the project to be paid over three years.
- Provide integrations into ESRI products such as ArcGIS Desktop, ArcGIS Pro, and ArcGIS Server.
- Existing oblique imagery integration into third-party vendors used by the County. This includes but is not limited to Assessor's CAMA software.
- Disaster coverage must be included in the contract without charge to cover EF4 or greater tornadoes, or flooding that occurs within the county.

2.) Metadata

- Deliverables must include metadata imbedded pixels detailing relevant information, i.e. data quality, spatial reference, attribute information, acquisition dates, etc.
- Metadata must describe the method of ortho imagery process.
- Deliverables shall be made available in accordance to the Federal Geographic Data Committee (FGDC) standard and file format.

3.) Oblique Imagery

- Vendor must provide color oblique aerial photography.
- Four-way oblique imagery covering the county must be captured at a GSD of 3-inches.
- Individual Oblique Color Images at Nominal GSD 3-inch.
- Images must be captured from a north, south, east and west direction to provide a 360 degree view of every property and parcel and at a 40 to 45 degree angle.
- Each pixel of an image must be geo-referenced.
- Oblique images must meet the same horizontal and vertical accuracy that is in the source data used in processing them, i.e. Orthophoto, DEM (Digital Elevation Model).
- Vendor shall provide oblique imagery from which measurements can be directly taken on a computer screen.
- Oblique Imagery must have the ability to measure the length, width, and height of any feature in an image.
- Oblique imagery must be geo-referenced in such a way that allows for the overlay of all GIS data.
- The ability to seamlessly pan from one oblique to the next within viewing software.

4.) Orthophotography Imagery

- Data collected must be in compliance with the Federal Geographic Data Committee (FGDC) Requirements.
- Flights must be at an optimum altitude to collect 3" pixel resolution imagery or finer.
- Vendors must include the time and data flown for all image files.
- Vendor must provide true color 24-Bit RGB imagery for the entirety of the County.
- Images must provide an accurate top-down view that is rectified to align to a map grid and must be easily integrated into a GIS database.
- Vendor shall correct distortions caused by elevated or depressed structures such as bridges, rail beds, overpasses and steep terrain.
- Imagery must be ortho-rectified using a suitable digital elevation model to minimize feature displacement and loss of features along mosaic lines.

- Shadows cast by building lean in high-density urban environments shall be kept at a minimum.
- Images must be free from reflections produced by pools, buildings with metallic roofs, etc.
- Imagery shall be collected during minimal shadowing conditions. Image acquisition shall occur when the sun angle is greater than 30 degrees above the horizon.
- Tiles shall be edge matched and color balanced to minimize tile seams and improve image quality.
- Vendor must use "best practice industry standard" for providing color ortho-photo mapping.
- The three-inch imagery shall meet accuracy specifications for 1"=25' mapping with a RMSE of 0.5 feet using ASPRS Accuracy Standard for Large Scale Maps, Class 1 Map Accuracy.

5.) Web based applications

- Vendor shall describe in detail their imagery hosting and viewing platforms.
- Vendor shall describe the software that it provides for viewing of oblique and Orthophotography images.
- Image tools shall include:
 - Measuring -vertical, horizontal, height, distance and area.
 - An identify tool to identify from overlaid GIS layers.
 - Annotations and drawing markup tools.
 - The ability to export images, with annotations, to a PDF.
 - Ability to click on any feature in an image to get its geo-coordinates and/or elevation.
- Imaging software shall provide access to historical imagery.
- Image viewing must have the ability to add, update, or append overlaying GIS layers using ArcGIS desktop or ArcGIS Pro.
- Image viewing software shall have the ability to overlay and query multiple GIS layers.
- Software must have the ability to view multiple years of oblique imagery side-by-side at one time, with parcel overlays.
- Oblique imagery and GIS parcel data must be usable via mobile application (iOS and Android compatible).
- Vendor must provide optional onsite training as part of their delivery, included in the cost.
- License to provide imagery and viewing software to all municipalities and county departments at no additional charge.

6.) Camera

- Vendor shall provide detailed information regarding camera equipment that will be used, its calibration system, and the methods in which images are captured.
- Vendor shall provide detailed information regarding the aircraft used for all aerial imaging flying missions.
- Vendor shall list any USGS certifications for their camera systems.

7.) Optional Professional Services

The County is interested in the products listed below, that may be derived from the aerial imagery process. Each option may be purchased independently of the other options. Each option may be purchased for any given year or not purchased at all.

- Change Detection-
 - Vendor shall describe their change detection software in order to identify, analyze parcel changes, using building outlines and historical imagery, in a split screen mode. Vendor shall make available implementation costs.
- Planimetric-
 - Vendor shall clearly identify planimetric features available, (i.e. building footprints, parking lots, sidewalks, centerlines) including impervious surface data that can be extracted from this project. Vendor shall outline detail and costs for each available feature.

8.) Flight Conditions

- Imagery shall be collected while atmospheric conditions are free of haze, smoke and dust and the ground condition is clear of any considerable snow.
- Imagery shall be collected during the leaf-off conditions.
- Imagery shall be collected during minimal shadow conditions.
- Sidelap between adjacent parallel flight lines shall average 30 percent (± 5 percent). Any parallel flight lines having sidelap of less than 25 percent or greater than 35 percent will be rejected and reflight.
- Crab in excess of three degrees (3°) measured with respect to both lines of flight may be cause for rejection of a flight strip or any portion thereof in which the excess crab occurs. This includes relative crab between any two successive exposures.
- Tilt of the camera from vertical at the instant of exposure shall not exceed three degrees (3°), nor shall it exceed five degrees (5°) between successive exposure stations. Average tilt over the entire project shall not exceed one degree (1°).

ADDITIONAL INFORMATION

A. Final Selection

Platte County will select a contractor based upon the recommendation of David Cox, the County Assessor. The award resulting from this RFP will be made to the contractor that submits the response that, in the County’s opinion best serves the overall interests of the County.

B. Rights Reserved

Platte County reserves the right to accept or reject any or all proposals in part or in total, as deemed to be the best interest of Platte County. Platte County also reserves the right to waive any minor informality or irregularity in any proposal. The RFP does not commit the County to award a contract to any contractor or to pay any cost incurred in preparation of a proposal submitted in response to this request. The County reserves the right to negotiate with any qualified contractor or to cancel in part, or in its entirety, this RFP, if it is deemed to be in the best interest of the County.

C. Legal Jurisdiction

Jurisdiction over any and all disputes relating to this RFP shall be solely in the Circuit Court of Platte County, Missouri, and by submitting a response to this RFP, Respondent specifically consents and submits to such personal and subject matter jurisdiction.

D. The Platte County Assessor, at his sole discretion, has the right to reject any or all proposals.

8.0 REQUIRED SIGNATURE PAGE – VENDOR PROPOSAL

THIS SECTION MUST BE SIGNED BY AN AUTHORIZED REPRESENTATIVE OF THE COMPANY. Payment will be paid upon completion and acceptance by Platte County.

Bid Price \$ _____

IN WITNESS WHEREOF, the undersigned have caused their duly authorized officers to submit this Request for Proposal, all as of the

_____ day of _____, 2021.

Company: _____

Signature: _____

Title: _____

9.0 Mandatory References

Reference 1: (Mandatory requirement)

Name: _____
Address: _____
Contact: _____
Phone: _____
No. of parcels in jurisdiction: _____

Reference 2: (Mandatory requirement)

Name: _____
Address: _____
Contact: _____
Phone: _____
No. of parcels in jurisdiction: _____

Reference 3: (Mandatory requirement)

Name: _____
Address: _____
Contact: _____
Phone: _____
No. of parcels in jurisdiction: _____

Reference 4: (Mandatory requirement)

Name: _____
Address: _____
Contact: _____
Phone: _____
No. of parcels in jurisdiction: _____

Reference 5: (Mandatory requirement)

Name: _____
Address: _____
Contact: _____
Phone: _____
No. of parcels in jurisdiction: _____