



Item #13-9-6 Consent

SACOG Board of Directors

September 18, 2013

Approve Aerial Imagery Collection Project

Issue: Should SACOG enter into contracts for cooperative procurement of imagery with interested public agencies?

Recommendation: The Government Relations & Public Affairs Committee unanimously recommends that the Board authorize the Chief Executive Officer to enter into contracts for imagery collection and independent quality review based on a formal competitive process.

Committee Action/Discussion: Several jurisdictions have requested that staff develop a consolidated purchase of high-resolution ortho and oblique aerial imagery for their jurisdictions in the SACOG region. Scopes of work based on the attached summary will be incorporated into a formal procurement process for imagery collection, processing and distribution; and an independent process for quality control.

For the last ten years, staff has worked with local public agencies to coordinate aerial imagery collections at regular intervals. In 2006 and 2009, staff coordinated a project that collected over 1,000 square miles of imagery that was funded by local agencies, U.S. Department of Homeland Security grants, and U.S. Geological Survey local partnership funding. Regional high-resolution imagery collections are essential for municipal infrastructure mapping and land use monitoring. Date-certain imagery, which differs from what is publicly available online, allows these agencies to accurately record infrastructure that is on the ground at the date of collection.

The cities of Sacramento, Elk Grove, Folsom, Citrus Heights and Rancho Cordova, along with the County of Sacramento and the Sacramento Municipal Utility District, have asked SACOG staff to coordinate a high-resolution aerial imagery collection. A project advisory committee of these agencies will advise staff on the contracting process. By coordinating a regional project through SACOG, these agencies are eligible to receive U.S. Geological Survey local partnership funding for the collection. The total project cost includes costs for SACOG to administer the project and to contract with a qualified aerial imagery quality control vendor to review the information collected. Staff does not possess the necessary expertise to review the deliverables with the selected vendor.

Staff will issue a formal Request for Proposals asking vendors to submit proposals by November 1 for the proposed collection plan and independent quality assurance/quality control plans. The attached summary describes the major components of this request. After receiving proposals, there are two options available to contract for the imagery. Option A is to proceed with a SACOG-administered collection process. Option B, which has not been available in the past, is to partner with the Los Angeles Region Imagery Acquisition Consortium (LARIAC). LARIAC has offered to amend the Sacramento collection onto their contract, which would also be a formal procurement process. This option could save contract

A

administration and quality control/quality assurance costs. After SACOG receives proposals, the project advisory committee will advise staff which option they prefer. Data collection is scheduled for late February to mid April 2014.

Approved by:

Mike McKeever
Chief Executive Officer

Attachment

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Draft Scope of Work Summary 2014 Sacramento Region High Resolution Imagery Project

Project Description

This project involves the collection of high-resolution imagery (six-inch pixel resolution) for urbanized parts of the Sacramento Region. At a minimum, the project area will include 950 square miles covering the cities of Sacramento, Elk Grove, Folsom, Citrus Heights and Rancho Cordova, including areas of interest for the County of Sacramento and the Sacramento Municipal Utility District. Prospective bidders will be asked to propose on two different options. Option 1, shown in attached Figure 1, asks for cost proposals to collect 950 square miles of oblique and 6-inch pixel in Sacramento County resolution ortho-imagery, 25 square miles of 3-inch pixel resolution ortho-imagery for the City of Citrus Heights and a 125 square miles of 1-foot resolution ortho-imagery for the U.S. Geological Survey (USGS) participation area. Option 2, shown in Figure 2, asks for cost proposals to collect 1,020, square miles of oblique and 6-inch pixel resolution ortho-imagery and 125 square miles 1-foot resolution ortho-imagery. These options will be used to negotiate the final contract.

The intent of this project is to acquire high-resolution, highly accurate oblique and orthorectified images with leaf-off tree conditions. This leaf-off tree condition is required by local agencies to allow for the visualization and digital capture of visible urban infrastructure. The collection of items such as drain inlets, manholes, and road striping requires imagery meeting these specifications. Collection flight periods for leaf-off conditions in the Sacramento region are only during the last week of February, the month of March and sometimes early April. Elevation models for the collection area will be provided. Ground control will be the responsibility of the vendor.

The project advisory committee requests that SACOG act as the RFP and contract administrator for this project. Participants agree to a maximum 20% project administration fee, tracked on an hourly reimbursable basis, which will cover the legal and administrative costs. A separate and quality control/quality assurance contract for a maximum of 20% of the project cost will cover the cost of reviewing the project deliverables.

Funding

The project is funded with local monies budgeted for high resolution imagery collection. By “pooling” these funds into a regional collection, our member and partner agencies are eligible to receive local matching funds from the USGS “Imagery for the Nation” project. This project provides matching funds to local collection efforts that build a publicly accessible national imagery set for the nation. The funding proposal has Sacramento Municipal Utility District pay for the oblique imagery and the jurisdictions splitting the cost of the ortho-imagery on a per-square-mile basis. USGS funding will be used to offset the total project cost.

Project Cost

Prices for the imagery collection will be received through a competitive bidding process. At this time, staff estimates that costs will range between \$300,000 to \$400,000 for the options described above.

Attachment A

Project Schedule

RFP and Contract Phases:

- September 26, 2013 - Letter of Commitment and of project area of interest due
- October 4, 2013 – Issue Request for Proposals
- November 1, 2013 - Proposals for Oversight Contract and Imagery Collection due
- November 12-15, 2013 - Consultant Interviews
- December 6, 2013 - Contract signed

Image Capture and Delivery Phases:

- Leaf-off capture window approximately February 23, 2014 to April 15, 2014
- Vendor processing of images March through August 2014
- SACOG Project Manager Contractor Reviewing Deliverables June through August 2014
- Vendors and SACOG Resolving any quality issues September 2014
- Project completion and image delivery to local agencies September 2014

Figure 1 Option 1 for 2014 Sacramento Region High Resolution Imagery

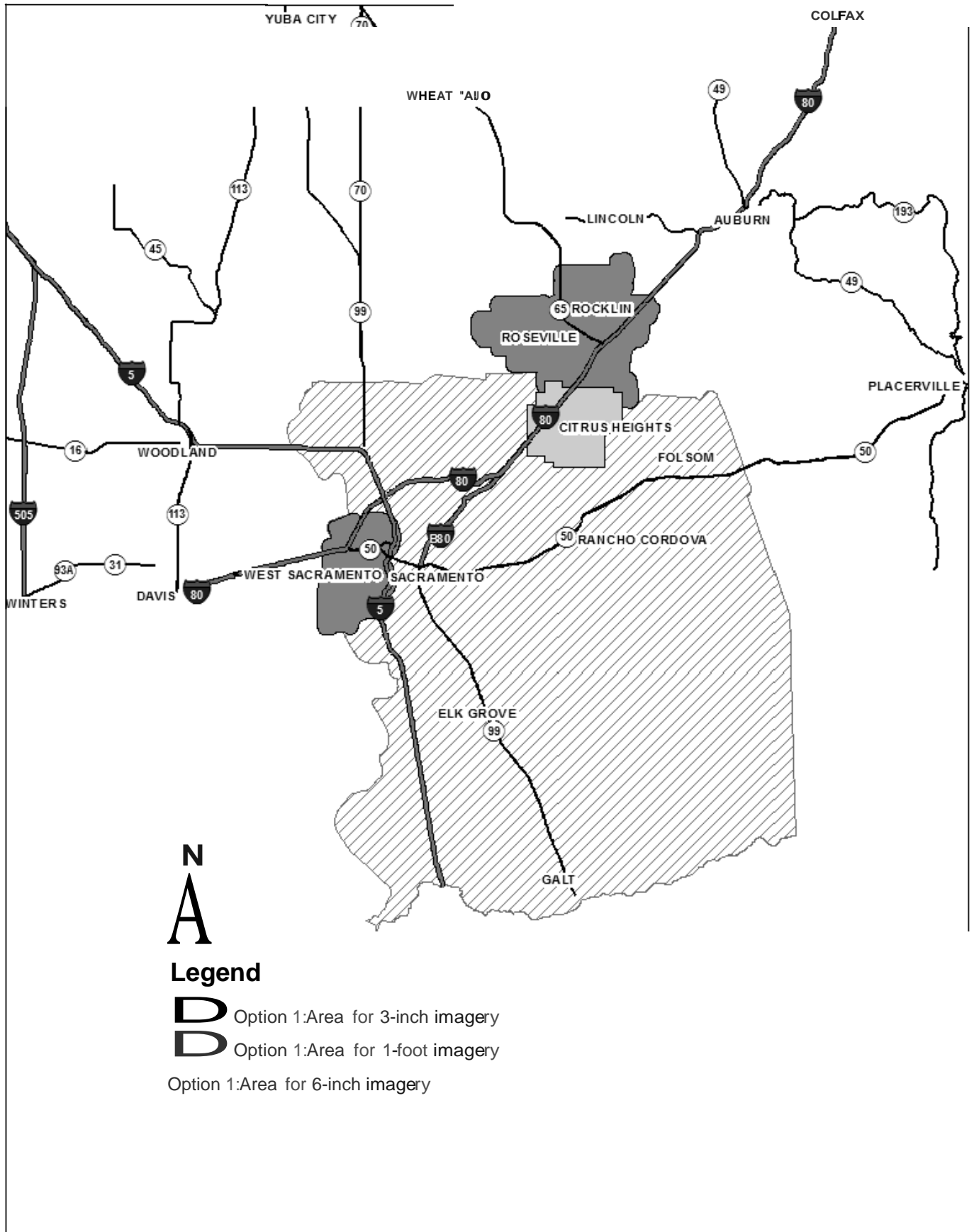


Figure 2: Option 2 for 2014 Sacramento Region High Resolution Imagery

