



CITY COUNCIL MEETING AGENDA
SEPTEMBER 24, 2002 MEETING

Agenda Item#: 18

Department: Public Works

Resolution / Ordinance # _____

Agenda Item:

Consider Authorizing the Purchase of Digital Aerial Photographs of Taylor, Including Contour Maps and Planimetrics for the City.

DESCRIPTION/JUSTIFICATION:

For the FY 2002-2003 CIP Budget, staff is recommending that a Drainage Master Plan be produced for Taylor that would be used to identify, prioritize, and plan drainage projects around the City (much like the recently completed Water and Wastewater Master Plan has helped put the needs of the City's water and wastewater systems in perspective.) One key component of a Drainage Master Plan is the creation of a detailed elevation contour map of Taylor that can be used to show where all of the drainage throughout the City flows, from local streets through the major creeks. The City of Taylor has the opportunity to purchase a contour map of the City plus digital aerial photographs and other associated data and the timing of the decision will affect the delivery date of the data.

The Capital Area Planning Council (CAPCO), a regional planning organization that represents cities and counties in a ten county region around Austin, went under contract with Sanborn Colorado, L.L.C., a mapping company, in FY 2001-2002 to create digital aerial photographs for the CAPCO region, including Williamson County. The basic digital aerial photographs have a resolution of 2 feet on the ground. (Features smaller than 2 feet cannot be discerned.) Photographic flights were made in February 2002 over the region. CAPCO and Sanborn have decided to extend the contract through FY 2002-2003 because of the interest generated by the work in the first year.

In addition to digital aerial photographs with a resolution of 2 feet, Sanborn has offered other services including digital aerial photographs with a resolution of 6 inches, topographic maps (contours of elevation on the ground), and planimetrics for the aerial photographs. (Planimetrics are traced features in the aerial photographs that are used to make digital maps of building outlines, streets, fire hydrants, manholes, creeks, etc. For instance, a map that shows the locations of all the fire hydrants in Taylor can be made with the planimetrics.) A number of area cities and counties have opted to purchase this additional data.

Williamson County requested in 2001 that Sanborn make 6 inch high resolution digital

photographs, a topographic map with 2 foot contours, and planimetrics for the Taylor area, so Sanborn made the special flights over Taylor in February 2002 to generate the necessary data. Williamson County later decided not to use the Taylor data. Sanborn has offered to process the data and provide the same products to the City of Taylor at the rate established in their contract with CAPCO.

The aerial photographs, contour map, and planimetrics will be useful for the City of Taylor and developers in Taylor even if Council elects not to fund a Drainage Master Plan. The contour maps are especially helpful for staff when reviewing development plans. Developers can use the contour maps for preliminary plans and put off costly on-site surveys until final design.

FINANCIAL/BUDGET:

Sanborn proposes to provide the 6-inch resolution digital aerial photographs, 2 foot contour maps, and planimetrics covering Taylor for \$31,000 (see attached). Before staff knew about the CAPCO/Sanborn contract and in preparation for recommending a Drainage Master Plan in the CIP Budget, staff solicited a proposal from an Austin area survey and mapping company to provide essentially the same data as Sanborn. The proposed cost was approximately \$150,000. Because Sanborn is providing the services over a 10 county region, the unit costs are much less than if Taylor tried to get the data on its own.

Staff recommends that a total of \$35,000 be authorized for this project to cover minor change orders that might come up during the project (for example, adding areas around Taylor into the scope of the work.)

Recommendation:

1. Authorize \$35,000 in funds for the production of 6-inch resolution digital aerial photographs, 2-foot elevation contour maps, and planimetrics for Taylor under the CAPCO/Sanborn contract.
2. If necessary, authorize the City Manager and staff to develop an agreement with CAPCO for Sanborn to provide the services to Taylor.

Department Head: _____



Date: _____

9/19/02

City Manager: _____



Date: _____

9-19-02



SANBORN
COLORADO

highlighted lines are
what we want. *DJ*

CAPCO ORTHO UPDATE FEE SCHEDULE – CITY OF TAYLOR

As requested by the RFP, Section 6.2, and Sanborn Colorado's Proposal, Section 5, the following table of service options indicates the services selected by the City of Taylor.

24 inch pixel B&W Orthophoto	\$	37.37	Per sq. mile
24 inch pixel Color Orthophoto	\$	41.59	Per sq. mile
24 inch pixel Color Infrared Orthophoto	\$	43.05	Per sq. mile
24 inch pixel Multispectral Orthoimage	\$	NO BID	Per sq. mile
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12 inch pixel B&W Orthophoto	\$	199.32	Per sq. mile
12 inch pixel Color Orthophoto	\$	217.49	Per sq. mile
12 inch pixel Color Infrared Orthophoto	\$	226.87	Per sq. mile
12inch pixel Multispectral Orthoimage	\$	NO BID	Per sq. mile
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6 inch pixel B&W Orthophoto	\$	500.43	Per sq. mile
6 inch pixel Color Orthophoto	\$	585.13	Per sq. mile
6 inch pixel Color Infrared Orthophoto	\$	595.09	Per sq. mile
6 inch pixel Multispectral Orthoimage	\$	NO BID	Per sq. mile
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10' Contours from 24 inch pixel imagery DEM's/DTM's	\$	56.02	Per sq. mile
5' Contours from 12 inch pixel imagery DEM's/DTM's	\$	296.08	Per sq. mile
2' Contours from 6 inch pixel imagery DEM's/DTM's	\$	952.37	Per sq. mile
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1"=100' Map Scale Planimetrics as per Austin/Round Rock	\$	\$888.71	Per sq. mile

PRICING NOTES

- See the Attached Map Diagram for the shape and extents of the coverage for the services selected.

Fee Calculation:

Square Miles	\$ per/mile	Total Fee
13	$\$585.13 + \$952.37 + \$888.71 = \$2,426.21$	\$31,540.67
13	Minus the CAPCO Contribution \$41.59	\$540.67
	Grand Total	\$31,000.00

