

CITY OF SAN BUENAVENTURA

CITY COUNCIL

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July 17, 1987

CITY OF SAN BUENAVENTURA REQUEST FOR PROPOSAL NO. P-763 AUTOMATED MAPPING / GEOGRAPHIC INFORMATION SYSTEM

Prospective Proposer:

The City of San Buenaventura requests proposals to supply system software, hardware, and training related to the acquisition of a system to provide automated mapping and geographic information system functions. The system is intended to complement and significantly enhance existing applications which utilize address standardization and other geobase methods to organize and relate all locational information as well as provide a capability to present the information in mapped form. It will be utilized by all departments to varying degrees primarily for analysis purposes rather than to create official record quality maps. The plan is to utilize the County of Ventura base map which is being prepared on a Computervision system and to overlay the items listed on the Data Element List included below including the entire water, sewer, and storm drain system. It is mandatory that the system allow tabular data to be readily associated with graphic elements for purposes of analysis and/or display.

A Proposers' Conference is scheduled on July 31, 1987 at 2:00 P.M. in the Community Meeting Room of City Hall, 501 Poli Street, Ventura which will offer an opportunity to respond to all interested vendors' questions concerning this request. Attendance at this conference should be confirmed with the Project Coordinator.

Significant dates related to this Request for Proposal are as follows:

RFP Released to vendors	July 17, 1987
Proposers' Conference	July 31, 1987
Proposals Due	August 28, 1987
Selection of "short list" of finalists for Demonstration	September 11, 1987
Demonstrations (Performance Test)	September 28 to October 9, 1987
Notification of selected vendor	October 23, 1987
Contract signing	November 5, 1987

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Questions concerning the content of this proposal should be addressed to:

Mr. William L. Danforth
Mapping/Information System Project Coordinator
City of San Buenaventura
501 Poli Street, room 225
Ventura, CA 93001
(805) 654-7800 Ext 617

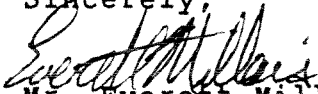
Signed proposals must be submitted in a sealed envelope to:

City of San Buenaventura Purchasing Office
501 Poli St, Room 101
PO Box 99
Ventura CA 93002

The submittal envelope should be clearly marked "Request for Proposal No. P-763" and submitted prior to 5:00 P.M. on Friday, August 28, 1987.

The City of San Buenaventura appreciates your participation in this process and looks forward to your response.

Sincerely,



Mr. Everett Millais
Director of Community Development

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I. BACKGROUND

The City has been developing a geobase system for the past five years and has made progress in standardizing addresses, developing a parcel-based set of files to track planning and building permit information and to access tabular information from the County Assessor. Address files from diverse sources have been successfully linked together so that it is possible to branch between building data, assessor's data, water customer and meter locations, business license and sales tax locations and some others. The original plan was to organize a data base similar to the DIME format with which to encode various district information (police and fire districts, planning community boundaries, building inspector areas, etc.). This approach has proven to be impractical for several reasons: (1) The amount of time to code different areas to each street segment, and (2) the inappropriateness of using street addresses to locate certain items. Another approach was to code district information to each assessor parcel. This was also time consuming and did not allow a means to allow for boundaries which cross property lines. We still find it very difficult to aggregate many items within ad hoc boundaries.

With the improving feasibility of developing a mapped data base and improving software to associate tabular information with lines on the map, it appears that many of the weaknesses of the former approaches can be overcome with a Geographic Information System. The same tools should also allow an accurate depiction of utility systems (water, sewer, and storm drains). Whether the new system is referred to as a Geographic Information System, an AM-FM system or some other label, what we are seeking is the capability to record as much information as possible about the land within the City: What are the physical characteristics of the land? What kind of facilities and structures exist on the land? How is land being used and how might it be used in the future? How can we most efficiently maintain the infrastructure? How much of what is where?

With a view toward developing a GIS capability, a Project Coordinator has been assigned and a study team has been formed to investigate what information might be included in such a system and what types of systems are available. The team has seen demonstrations of several systems and has reviewed data we have received in response to our Request for Information.

What follows is specific background data on the City, a proposed data element list, a funding summary, and an outline of the locations for work stations. While much of this information has been previously provided in our Request for Information, it is also included here to ease the preparation of proposals.

A. CITY VITAL STATISTICS (AS OF JUNE 30, 1986)

Population	87,000	
Area	34.3	square miles (14.5 ocean)
Number of Parcels	29,600	
Number of Building Permits	1780	(Average past 3 years)
Value of Building Permits	\$ 98,657,667	(Average past 3 years)
Miles of Streets	255.6	
Enterprise Funds		
Water	length of pipe	284.65 miles
Sewer	length of gravity pipe	281.02 miles
	length of force mains	3.08 miles
Length of Storm Drains		19.69 miles
Number of Fire Hydrants		2554
Water Wells		11
Reservoirs		7
Water Tanks		31
Street Lights		7538
Number of parks		24
Park acreage		412
Golf course acreage		351
Number of street trees		40,000
Present Data Processing Capability		
Processors		VAX 11-785
		VAX 8530
Operating system		VMS
Application Software		ADMINS
Applications		See Appendix 1
Personnel assigned		5

B. DATA ELEMENT LIST

Following is a listing of data elements planned for eventual inclusion on the system and the kinds of capabilities the City is seeking in software to manipulate the data.

MULTI-DEPARTMENT USE

Base map to include:

Major geographic and topographic features such as land/water areas, city boundaries, barrancas, canyons, lakes and rivers.
Street and freeway network
Railroads
Assessor's parcels

It is our intention to utilize a base map presently being constructed by the County of Ventura utilizing a Computervision system. The City portion of the overall map at the 500 scale has been completed.

COMMUNITY DEVELOPMENT

Planning:

Zoning
Future land use
Parking districts
Local coastal plan boundaries
Planning community boundaries
Phasing area boundaries
Sensitive habitat areas
Flood plain overlay and areas
Hillside management boundaries
Hillside drainage areas
Urban/rural boundaries
Hillside scenic resource area
Phasing program boundaries
Special study areas
Hillside/centers boundary
Designated scenic highways, drives
Open space including future major parks
Pending project areas
Project and planning case areas
Mobile home parks
Ventura fault special study zone

Preliminary 100 & 50 year flood plain
Historic areas
Building envelopes for selected areas
Tsunami areas
Prime agricultural property
Annexations
Area boundaries for hearing notification of owners
and/or occupants
Sign program areas

Building and Safety:

Master map of street address locations
Building inspector areas
Hillside brush areas
Business locations
Code enforcement complaints
Noise contours

Revitalization/Economic Development:

Census Data
Building footprints
Redevelopment area boundaries
Residential land status of development
Vacant land analysis

Department Summary of Existing Tabular Information on Computer:

Assessor's parcel data
All Case locations by parcel since July, 1984
Parcel cross reference for discretionary planning permits
Building permit data by address
Business license data by address
Complaint data by address
Vacant Land Status by parcel (in progress)

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PARKS AND RECREATION

Street trees
Park boundaries
Census data
Park & golf course irrigation systems
Park trees
Sidewalk - tree maintenance areas
Recreation facilities/park locations - existing and future
Wind rows
Facilities maps
Flood Control Districts
Linear parks
Medians
School play areas/Athletic facilities
State and County Park areas

Department Summary of Existing Tabular Information on Computer:
Recreation Facilities Inventory by address
Sidewalk Data

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POLICE

- Police reporting districts
- Beats
- Crime locations
- Known offender locations
- Traffic collision locations
- Traffic citation locations
- Floor plans of high risk businesses
- Hazardous material storage areas
- Crime cluster areas
- Arrest locations
- Call for service locations
- Parking citation locations
- Neighborhood watch locations
- Liquor dispensing locations
- Schools
- Placement homes

Department Summary of Existing Tabular Information on Computer
Most data available on police/fire computer system

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FIRE

- Water lines and valves
- Natural gas and oil lines and valves
- Hydrant locations
- Hazardous material storage sites
- Alternate traffic routes
- Emergency medical treatment facilities
- Flood danger/inundation areas
- Fire response maps

Department Summary of Existing Tabular Information on Computer:
Fire hydrant data

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PUBLIC WORKS

Engineering

- Water Atlas including present grid lines,
Transmission and distribution pipe lines
- System street valves
- Fire hydrants
- Pump stations and wells
- Storage tanks and reservoirs
- Conditioning plants

Sewer atlas
Storm drain atlas
Topographical data
CAD (Computer Assisted Design) Civil Engineering Package.
Other utility lines (telephone, gas, electric, cable, etc.)

Water

Meters and services
Water sample stations
Pressure zones

Sanitation

Sewers
Mains (including elevations in selected areas)
Manholes
Lampholes
Lift stations
Services
Flow test results
Areas of city on septic service

Traffic Engineer

Street network
Circulation plan
Traffic zones
Underpasses and vertical clearances
signals
Signs
Stripings and markings
Traffic counts
Current and future land use data
Traffic accident locations

Land Development

Reimbursement areas

Maintenance

Storm drain preventative maintenance
Traffic control devices, signing and striping
sidewalk survey areas
Street sweeping areas
Traffic signal locations
Street light inventory
Crack sealing areas
Utility pavement cuts
Pavement management
Annual resurfacing program
Annual slurry seal program

Department Summary of Existing Tabular Information on Computer
Pavement survey data by street segment
Water customer information by address
Water meter location information by address
Traffic Control Device Inventory (DBASE III)
Traffic signal data
Sidewalk data
Traffic count history (PC)

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FINANCE

Special Assessments

Special assessment district boundaries

Revenue

Location of sales and property tax payers

Accounting

Areas from location table in chart of accounts

Department Summary of Existing Tabular Information on Computer

Sales Tax locations by address

Special assessment data by parcel

Accounting information related to locations in table

CITY CLERK

Easements