

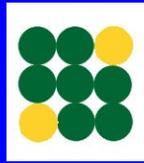
This Old Infrastructure

Capital Improvement and Asset Management Presentation

Dr. Darrell Danner

Enterprise GIS based Software solutions

Las Cruces NM • Peoria AZ • Cape Coral FL • Portland OR
www.geostatonline.com



Capital Improvement

Engineering, Planning and Budgeting

Construction and Total Cost

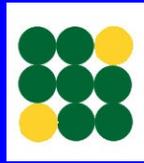
Expected Life Cycle – Manufacturer Estimates

Age out infrastructure components (not all components have the same life expectancy)

Guarantees and Warrantees

Replacement Value – Maintain optional sinking funds

based on estimated life cycle



Asset Management

Scheduled Maintenance (Preventive Maintenance)

Unscheduled Repairs

Maintenance Costs

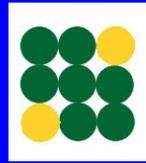
Some components can be rebuilt

**Some infrastructure can be rejuvenated –
streets and signage, water pumps and valves, etc**

Operational Costs

Professional and skilled labor to operate systems

Scheduled replacement and rebuilding



Infrastructure Cost Interface

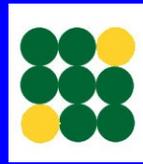
GIS and Geodatabase Technology

Build Historic Data for Existing Capital Asset Valuation

In order of Accuracy and True Value

- **Actual Historic Costs**
- **Engineering and/or Marginal Cost Estimates**
- **Average Cost Estimates**
- **Standard Estimates**

Enables Users To Meet All Required GASB Reports

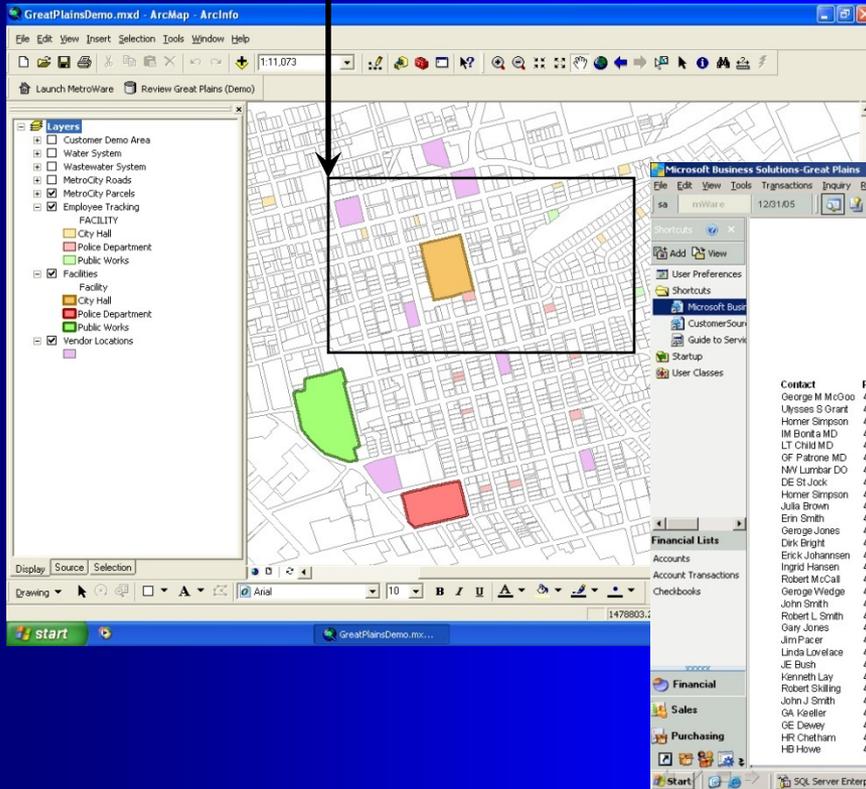


Use GIS Maps to select an area

Data Category – Report Type

Data Needs:

ESRI ArcGIS



Contact	Parcel ID	Range	Road or Street	Direction	City	State	Zip Code	Type	Territory	Date	Past Due
George M McDo	4-008-265-438	1101	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$121.50	\$0.00
Ulysses S Grant	4-008-265-439	1105	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
Homer Simpson	4-008-265-440	1109	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$348.75	\$152.30
IM Pontia MD	4-008-265-441	1111	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$252.60	\$0.00
LT Chval MD	4-008-265-442	1115	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
OF Patrone	4-008-265-443	1119	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$162.55	\$0.00
NW Lumbard MD	4-008-265-444	1121	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$110.35	\$0.00
DE St Jock	4-008-265-445	1125	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$89.25	\$0.00
Homer Simpson	4-008-265-446	1129	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$121.50	\$0.00
Julia Brown	4-008-265-447	1131	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
Erin Smith	4-008-265-448	1135	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$325.21	\$141.28
George Jones	4-008-265-449	1139	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$252.60	\$0.00
Dirk Bright	4-008-265-450	1141	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
Erick Johansen	4-008-265-451	1145	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$162.55	\$0.00
Ingrid Hansen	4-008-265-452	1149	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$110.35	\$0.00
Robert McCall	4-008-265-453	1151	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$89.25	\$0.00
George Wedge	4-008-265-454	1155	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$121.50	\$0.00
John Smith	4-008-265-455	1159	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
Robert L Smith	4-008-265-456	1161	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$377.75	\$163.89
Gary Jones	4-008-265-457	1165	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$252.60	\$0.00
Jim Parer	4-008-265-458	1169	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
Linda Lovelace	4-008-265-459	1171	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$162.55	\$0.00
JE Bush	4-008-265-460	1175	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$110.35	\$0.00
Kenneth Lay	4-008-265-461	1179	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$89.25	\$0.00
Robert Skilling	4-008-265-462	1181	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$121.50	\$0.00
John J Smith	4-008-265-463	1185	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$157.69	\$0.00
GA Kreller	4-008-265-464	1189	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$355.21	\$132.67
GE Dewey	4-008-265-465	1191	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$252.60	\$0.00
HR Chetham	4-008-265-466	1195	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$110.35	\$0.00
HB Howe	4-008-265-467	1199	LUNA ST	SE	METROCITY	UTOPIA	20010	UTILITIES	OUTER BP	\$89.25	\$0.00

Ledger Transactions

Reports:

Business Type Activities

Maintenance

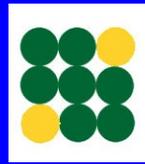
Operational

Utility Billing

GASB

CAFR

Over 200 required and optional fiscal and spatial reports with accompanying maps, charts and graphs.



Capital Inventory

Map of Roads and Storm Water

All Development, Maintenance and Operational Past, Current and Future Costs

The screenshot shows the ArcMap interface with a map of roads and storm water infrastructure. Two windows are open, displaying cost summaries for roads and storm water projects.

Roads Capital Cost Summary

300170055 TEXAS AVE

Choose Inventory or Cost Table to Review

NOTE: These are listings of all projects and available for update

INVENTORIES Cost Summary Pavement Pave REM ROW

COST TABLES Line Right of Way

IDNUM	Location	ST Type	LEH	(FEE)	
300196009	KANSAS AVE	CM	333		\$253,440.00 \$
300196010	KANSAS AVE	CM	335		\$0.00 \$
300196011	KANSAS AVE	CM	338		\$253,440.00 \$
300407065	E LOHMAN AVE	CM	332		\$0.00 \$
300407066	E LOHMAN AVE	CM	329		\$0.00 \$

Storm Water Projects Cost Summary

300170055 TEXAS AVE

Choose Inventory or Cost Table to Review

NOTE: These are listings of all projects and available for update

INVENTORIES Cost Summary Line ROW Drop inlet DI Filter Main Lift Pumps Impounds Injector well Channels Streams

COST TABLES Line Right of Way Material Auxiliary Costs

Review Active Record Notes

MetroCity Capital Improvement Projects - Cost Summation											
IDNUM	Location	ST Type	LEH	(FEE)							
300196009	KANSAS AVE	CM	333		\$253,440.00	\$465,696.00	\$674,160.00	\$440,563.00	\$1,204,262.00	\$39,178.00	\$0.00
300196010	KANSAS AVE	CM	335		\$0.00	\$465,696.00	\$674,160.00	\$440,563.00	\$1,204,262.00	\$39,178.00	\$0.00
300196011	KANSAS AVE	CM	338		\$253,440.00	\$465,696.00	\$674,160.00	\$440,563.00	\$1,204,262.00	\$39,178.00	\$0.00
300407065	E LOHMAN AVE	CM	332		\$0.00	\$279,418.00	\$391,496.00	\$264,338.00	\$722,557.00	\$23,507.00	\$0.00
300407066	E LOHMAN AVE	CM	329		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

SELECTION TOOLS

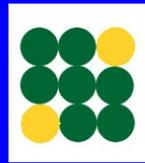
Click the above Buttons to Query the RECORDSETS between the ALL Records, Selected Records (from GIS), or User Defined Selection (Find) Query of Road Inventory for any Planning Region.

All Records Selected Records Find

Current: ALL RECORDS QUERY

Select Facilities to Review on GIS

All capital costs by location, system and components including signage, Lighting and signalization



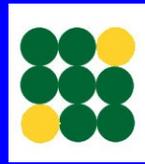
Capital Improvement Reporting

Auto Calculation Reports – Select the Desired Report (s) with maps and charts and Print

Metro City Statement of Cash Flows
Proprietary Funds
For the year December 31, 2004

	Water and Sewer	Parking Facilities	Total	Internal Service
CASH FLOWS FROM OPERATING ACTIVITIES				
Receipts from customers	\$11,400,200	\$1,345,292	\$12,745,492	\$16,805,357
Payments to suppliers	-2,725,349	-365,137	-3,090,486	-3,025,956
Payments to employees	-3,360,055	-750,828	-4,110,883	-4,209,688
Internal activity-payments to other funds	-1,296,768	0	-1,296,768	-1,191,926
Claims paid	0	0	0	-8,892,451
Other receipts (payments)	-1,165,574	0	-1,165,574	1,061,118
Net cash provided by operating activities	\$2,852,454	\$229,327	\$3,081,781	\$956,454
CASH FLOWS FROM NONCAPITAL FINANCING ACTIVITIES				
Operating subsidies and transfers to other funds	-\$290,000	-\$211,409	-\$501,409	-\$175,033
CASH FLOWS FROM CAPITAL AND RELATED FINANCING ACTIVITIES				
Proceeds from capital debt	\$4,041,322	\$8,660,778	\$12,702,100	\$0
Capital contributions	486,010	0	486,010	0
Purchases of capital assets	-4,194,035	-144,716	-4,338,751	-400,085
Principal paid on capital debt	-2,178,481	-8,895,000	-11,073,481	-854,137
Interest paid on capital debt	-1,479,708	-1,166,646	-2,646,254	-416,161
Other receipts (payments)	0	19,174	19,174	131,416
Net cash (used) by capital and related financing activities	-\$3,224,902	-\$1,526,310	-\$4,651,212	-\$1,264,423
CASH FLOWS FROM INVESTING ACTIVITIES				
Proceeds from sales and maturities of investments	\$0	\$0	\$0	\$16,684
Interest and dividends	454,793	143,747	598,540	148,189
Net cash provided by investing activities	454,793	143,747	598,540	163,872
Net (decrease) in cash and cash equivalents	-307,655	-1,364,645	-1,672,300	-319,130
Balances- beginning of the year	8,724,308	3,227,135	11,951,443	3,892,906
Balances- end of the year	\$8,416,653	\$1,862,490	\$10,279,143	\$3,573,776
Reconciliation of operating income (loss) to net cash provided by operating activities:				
Operating income (loss)	\$4,422,127	-\$238,804	\$4,183,323	-\$474,463
Adjustments to reconcile operating income to net cash provided by operating activities:				
by operating activities:				
Depreciation expense	1,163,140	542,049	\$1,705,189	1,707,872
Change in assets and liabilities:				
Receivables, net	653,264	1,205	\$654,469	31,841
Inventories	2,829	0	\$2,829	39,790
Accounts and other payables	-287,446	-86,843	-\$384,089	40,475
Accrued expenses	-3,081,460	11,520	-\$3,079,940	-389,161
Net cash provided by operating activities	2,852,454	229,327	\$3,081,781	\$956,454
Noncash capital financing activities:				
Capital assets of \$1,159,909 were acquired through contributions from developers.				

Select the Summary Assets, Liabilities, Balance and Capital Improvements Sheets on the menu. Reports are generated automatically. However; if you need special reports just select and move the selected columns to the new report with xml Reports or Crystal Reports.



Activities

Location of Activities

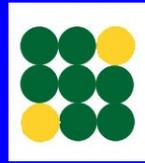
Activities by Type

IDIRIM	Location	ST Type	LEH	Line	Flight of Way	Material	Auxiliary Costs	ROW	Median	Sides	Signage
300196009	KANSAS AVE	CM 333		\$253,440.00		\$465,696.00	\$674,160.00	\$440,563.00			
300196010	KANSAS AVE	CM 335		\$0.00		\$465,696.00	\$674,160.00	\$440,563.00			
300196011	KANSAS AVE	CM 338		\$253,440.00		\$465,696.00	\$674,160.00	\$440,563.00			
300407065	E LOHMAN AVE	CM 332		\$0.00	\$279,418.00	\$391,496.00	\$264,338.00				
300407066	E LOHMAN AVE	CM 329		\$0.00	\$0.00	\$0.00	\$0.00				

Statement of Activities

Functional/Programs	Expenses	Charges for Services	Operating Grants and Contributions	Capital Grants and Contributions	Governmental Activities	Primary Government Business Type Activities	Total	Component Units
Primary Government:								
Governmental Activities								
General Government	\$9,709,509	\$3,333,265	\$843,617	\$0	-\$5,532,627		-\$5,532,627	
Public safety	34,782,144	1,198,855	1,307,693	62,300	-32,213,286		-32,213,286	
Public works	10,131,938	860,000	0	2,252,615	-7,029,313		-7,029,313	
Engineering services	1,295,645	704,793	0	0	-594,852		-594,852	
Health	6,705,675	5,612,287	575,000	0	-518,408		-518,408	
Cemetery	735,886	212,436	72,688	0	-450,681		-450,681	
Culture and recreation	11,534,045	3,895,199	2,450,000	0	-5,088,846		-5,088,846	
Community Development	2,394,358	0	0	2,800,000	-414,358		-414,358	
Education (Payment to school district)	21,893,273	0	0	0	-21,893,273		-21,893,273	
Interest on long-term debt	6,242,893	0	0	0	-6,242,893		-6,242,893	
Total governmental activities	\$106,029,367	\$15,906,875	\$5,248,999	\$4,894,915	-\$79,978,578		-\$79,978,578	
Business-type activities:								
Water	3,643,315	4,459,360	0	1,159,909	0	\$1,675,944	\$1,675,944	
Wastewater	4,909,896	7,170,533	0	486,010	0	2,745,658	2,745,658	
Parking facilities	2,824,388	1,449,012	0	0	0	-1,375,396	-1,375,396	
Total business activities	\$11,377,589	\$12,778,895	\$0	\$1,645,919	\$0	\$3,047,246	\$3,047,246	
Total primary government	\$117,406,956	\$28,685,770	\$5,248,999	\$6,540,834	-\$79,978,578	\$3,047,246	-\$76,931,332	
Component units:								
Landfill	\$3,382,157	\$3,857,858	\$0	\$11,297			\$487,098	\$487,098
Public School system	31,186,498	705,785	3,937,083				-35,543,650	-35,543,650
Total component units	\$34,568,655	\$4,563,643	\$3,937,083	\$11,297			-\$35,056,452	-\$35,056,452

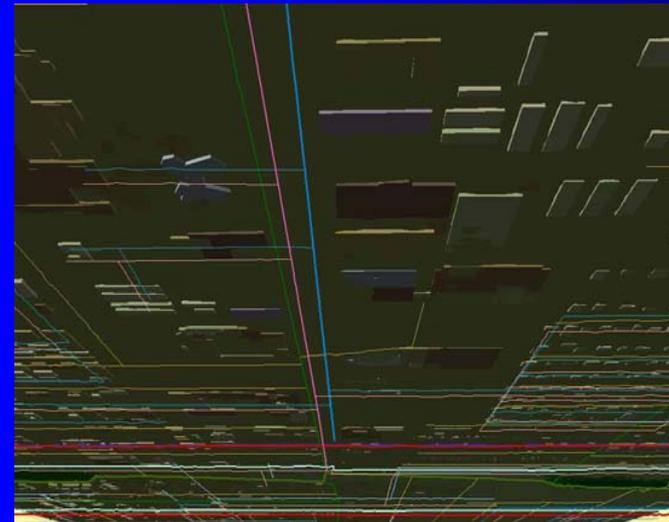
Select and review the Statement of Activities for Capital Improvement Reports on the fly.



GIS 3 – D Views of Downtown Phoenix



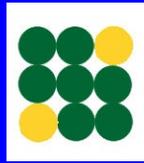
Map 1 a 45° Azimuth Aerial Above Surface with Buildings, and Map 2 Soil Types shown on the View of the Surface



Map 3A Subsurface 135° View of Downtown Phoenix showing the Water, Wastewater, Gas Lines and basements and Underground Parking Garages.



A Devils Eye View



Capital Improvement Applications

Meeting Community Spatial and Fiscal Needs with:

GIS and Geodatabase development for all Infrastructure:

- Interfaces with infrastructure and fiscal data;
- Capital Improvement Fiscal Applications.

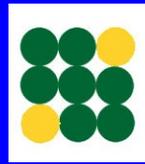
Planning and Capital Improvements Planning Capital, Operational and Maintenance Costs:

- Tracks Development Costs;
- Tracks Maintenance Costs;
- Future Development Costs, and,
- Estimates Impact Fees;

Capital Budgeting meeting GASB and CAFR Reporting

Planning, Programming and Budgeting

- Annual Administrative, Capital, Operational, Maintenance, and Service Budgeting, and Expenses;
- Specialized Programming for Specific Community Needs



GIS and GeoDatabase Applications

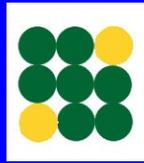
This GIS Map Infrastructure Map by Components for Existing and future Streets, water and wastewater systems

The GeoDatabase Table shows by Components, Location and

The screenshot displays the ArcMap interface with a GIS map on the left and a data table on the right. The map shows various infrastructure components like streets, water, and wastewater systems. The data table, titled 'Phoenix Capital Improvement Projects - Cost Summation', lists project details such as ID, location, length, and costs.

IDNUM	Location	ST Type	Length (Miles)	Per Rtn Cost	Fut Pavement Cost	Remaining ROW Cost	Future Median Cost	Future Sides Cost	Future Signage Cost	Future Storm Cost
10056007	57th Ave: CAP to Lone Mountain	B	0.7	\$0.00	\$434,850.00	\$557,714.00	\$308,394.00	\$894,728.00	\$27,424.00	\$0.00
10056008	57th Ave: Lone Mountain to Dove Valley	B	1.7	\$0.00	\$1,055,578.00	\$1,354,448.00	\$748,967.00	\$2,172,910.00	\$66,602.00	\$0.00
10056009	57th Ave: Dove Valley to Carefree Highway	B	1	\$0.00	\$620,928.00	\$796,735.00	\$440,563.00	\$1,278,162.00	\$39,170.00	\$0.00
10056010	57th Ave: Carefree Hwy to Desert Hills Dr	B	3.3	\$0.00	\$2,049,862.00	\$2,629,224.00	\$1,453,899.00	\$4,218,002.00	\$129,288.00	\$0.00
10076004	51st Avenue: CAP to	A	2.2	\$0.00	\$1,366,042.00	\$1,887,848.00	\$1,723,234.00	\$2,886,111.00	\$86,191.00	\$0.00

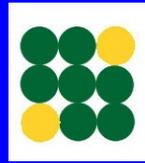
GIS GeoDatabase Enable Users with Report Production with Tables, Maps and Graphs on the fly



GIS Capital Improvement, Management and Operations Simplify Data Acquisition

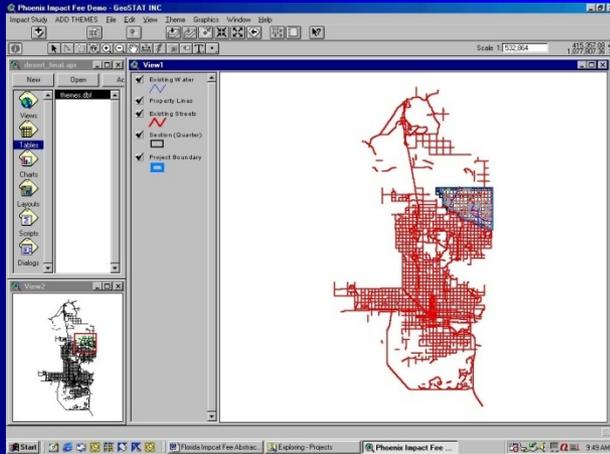
View:

- **Maps and data for the community or specific local areas**
- **Infrastructure costs by community or segment and component**
- **Existing Roads and Streets including signage and lighting**
- **Future Roads and Streets with cost estimates**
- **Generate Reports and Maps at will**

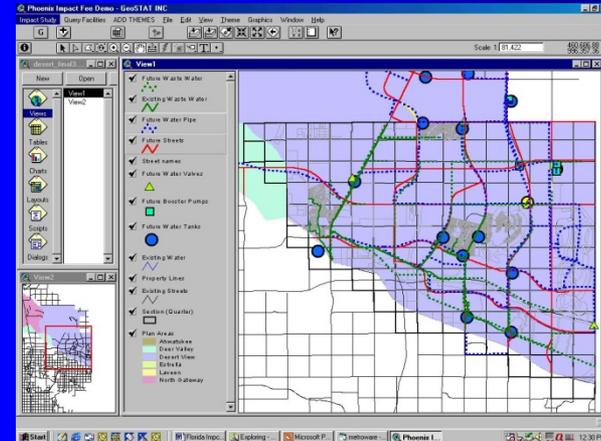


Existing and Estimated Future Infrastructure Costs

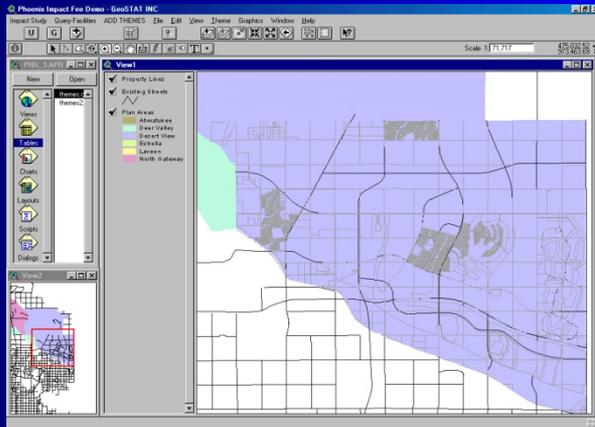
The Entire Community



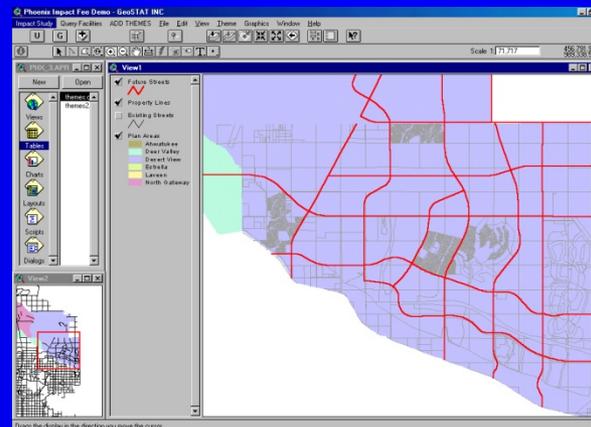
Select a Geographic Area



Existing Streets



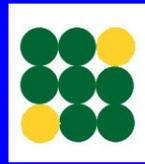
Future Streets



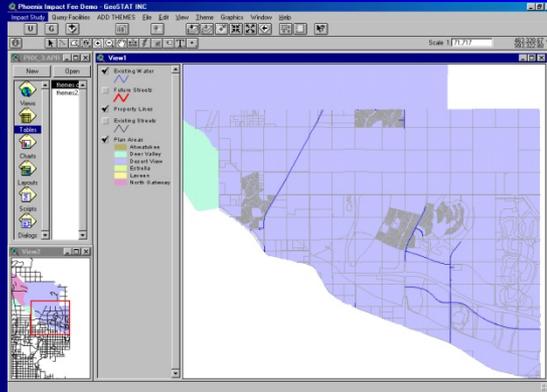
Capital Costs

This screenshot shows a software window titled '10056006 With New River Valley to Expende Highway Road Projects Cost Summary'. It features a 'Choose Inventory or Cost Table to Review' dropdown menu and a 'COST TABLES' section with a table of project costs.

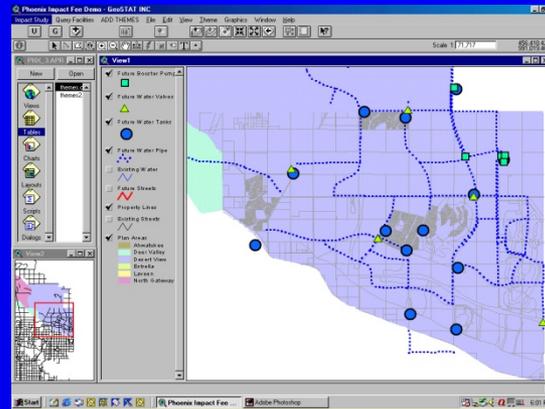
Project Name	Length (km)	Estimated Project Cost				
10056006 With New River Valley to Expende Highway	1.1	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10056006 With New River Valley to Expende Highway	1.1	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10056006 With New River Valley to Expende Highway	1.1	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10056006 With New River Valley to Expende Highway	1.1	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
10056006 With New River Valley to Expende Highway	1.1	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000



Existing Water



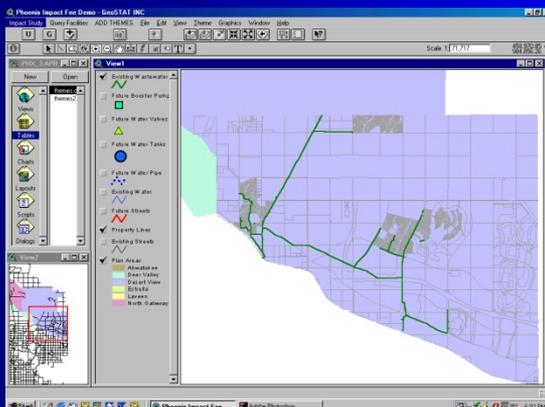
Future Water



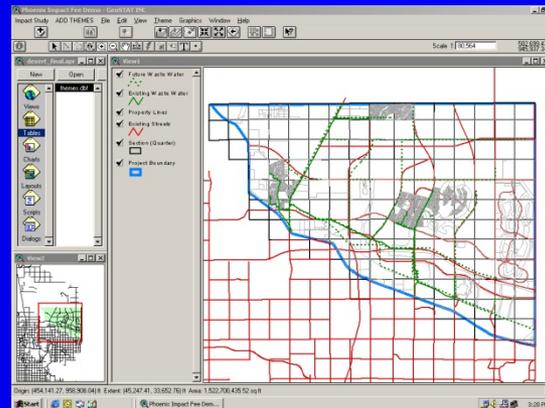
Existing Capital Costs

Project Name	Length	Cost
10056000		
10056001		
10056002		
10056003		
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10056006		
10056007		
10056008		
10056009		
10056010		
10056011		
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10056099		
10056100		

Existing Wastewater

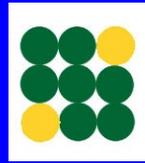


Future Wastewater



Future Capital Costs

Component Name	Length	Cost
10056000		
10056001		
10056002		
10056003		
10056004		
10056005		
10056006		
10056007		
10056008		
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10056099		
10056100		



Accounting, Budgeting Capital Improvement Planning, Asset management with Reporting including GASB

metroware - Capital Improvement Study - [metroware - ROADS PROJECTS INVENTORY UPDATE]

File ROADS Window

300170055 TEXAS AVE

Road Projects Cost Summary

Choose Inventory or Cost Table to Review

NOTE: There are listings of all projects and available for update

Review All Notes EXIT

INVENTORIES Cost Summary Pavement Pave RMV ROW Median Sides Signage Strm Sewer Min Bridge Culverts Signals

COST TABLES Pavement Pavement Removal Right of Way Auxiliary Costs Review Active Record Notes

MetroCity Capital Improvement Projects - Cost Summation

ID/RUM	Location	ST Type	LEN (FEET)	Fit Pavement Cost	Remaining ROW Cost	Future Median Cost	Future Sides Cost	Future Signage Cost	Future Storm Cost	Fit Min Bridge Cost
300170055	TEXAS AVE	CM	339	\$302,702.00	\$573,036.00	\$298,366.00	\$762,771.00	\$25,465.00	\$0.00	\$0.00
300170056	TEXAS AVE	CM	331	\$0.00	\$1,011,240.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
300186096	KANSAS AVE	A	342	\$620,528.00	\$686,696.00	\$763,288.00	\$1,311,869.00	\$39,178.00	\$0.00	\$0.00
300186097	KANSAS AVE	A	340	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
300186098	KANSAS AVE	A	332	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

GIS with the software provide a complete Reporting Package using field and office data input. The system provides all basic calculations and accepts new programs and data.



Microsoft Business Solutions - Great Plains

File Edit View Tools Transactions Inquiry Reports Cards Extras Windows Help

12/01/04

Shortcuts Add View User Preferences Shortcuts Microsoft Bus Customer Sour Guide to Serv Startup User Classes

MetroCity

Statement of Activities

12/31/04

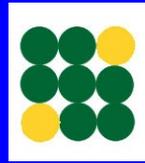
Functional/Programs	Expenses	Program Revenues			Net (Expense) Revenue and Changes in Net Assets			Component Units
		Charges for Services	Operating Grants	Capital Grants	Governmental Activities	Primary Government Business Type Activities	Total	
Primary Government:								
Governmental Activities								
General Government	\$3,709,609	\$3,203,285	\$64,617	\$0	\$6,532,627			\$5,532,627
Public safety	38,792,144	1,189,655	1,007,930	62,300	-32,213,296			-32,213,296
Public works	10,131,829	950,000	0	2,252,615	-7,029,313			-7,029,313
Engineering services	1,239,645	704,793	0	0	-534,852			-534,852
Health	6,705,675	5,612,287	575,000	0	-518,608			-518,608
Cemetery	735,886	212,496	72,689	0	-450,691			-450,691
Culture and recreation	11,534,045	3,865,193	2,450,000	0	-5,888,848			-5,888,848
Community Development	2,984,389	0	0	2,680,000	-414,389			-414,389
Education (Payment to school district)	21,853,273	0	0	0	-21,853,273			-21,853,273
Interest on long term debt	6,242,893	0	0	0	-6,242,893			-6,242,893
Total governmental activities	\$106,620,367	\$16,906,876	\$5,249,999	\$4,894,915	\$78,978,979			\$78,978,979
Business-type activities:								
Checkbooks								
Water	3,643,316	4,195,350	0	1,159,958	0	\$1,675,944		1,675,944
Wastewater	4,500,895	7,170,533	0	499,010	0	2,768,699		2,768,699
Parking facilities	2,924,368	1,448,012	0	0	0	-1,276,356		-1,276,356
Total business activities	\$11,277,568	\$12,778,895	\$0	\$1,645,918	\$0	\$3,047,246		\$3,047,246
Total primary government	\$117,897,935	\$29,685,770	\$5,249,999	\$6,540,834	\$78,978,979	\$3,047,246		\$76,931,732
Component units:								
Landfill	\$3,262,167	\$3,867,968	\$0	\$11,297				\$407,098
Public School system	31,586,498	705,765	3,937,083					-26,643,650
Total component units	\$34,848,665	\$4,573,733	\$3,937,083	\$11,297				\$26,956,552

Financial Lists Accounts Account Transactions Checkbooks Financial Sales Purchasing

SQL Server Enterprise M... Microsoft Business So...

1:20 PM

GIS and/or CAD based maintenance systems send standard data to the database system

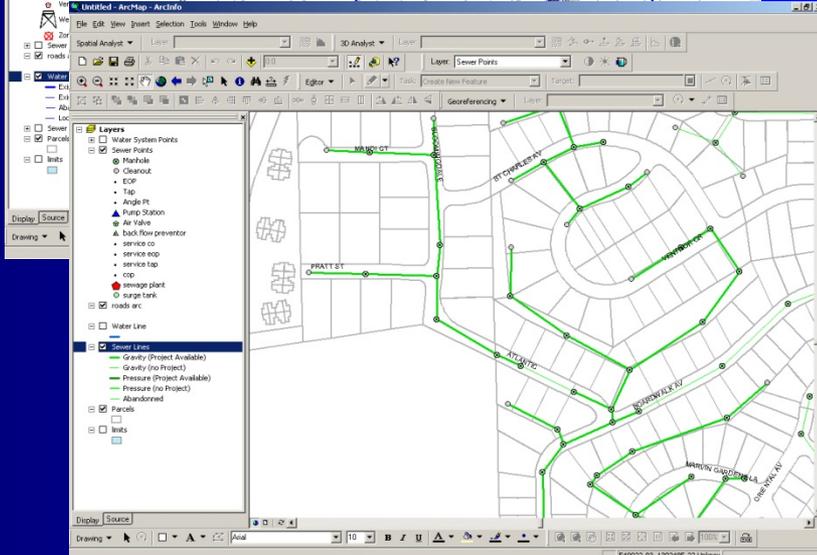
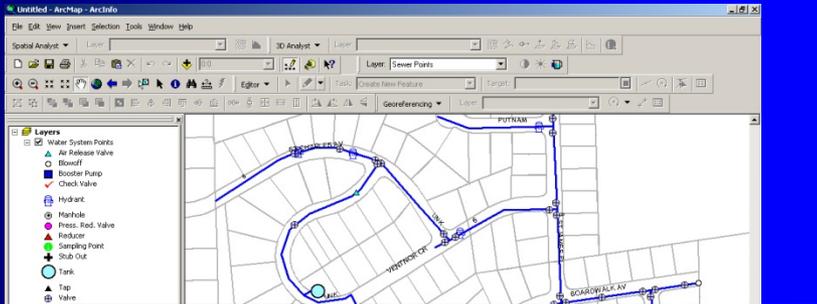


Planning and Capital Improvement Planning Transportation and Utility Infrastructure Studies

Utilizing the existing Infrastructure and Facility, GIS and CAD GeoDatabase for Analyses

Streets Water Wastewater

Data and Costs GeoDatabase Capital planning



10056009 100 Ave Bone Valley to Carleton Highway
Road Projects Cost Summary
Choose Inventory or Cost Table to Review

INVENTORIES Cost Summary Payment Plans BMD Other Medical Signs Signage Site Tower Misc Bridge Culverts Signals

COST TABLES Payment Payment Removal Night of Way Auxiliary Costs

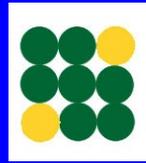
Phoenix Capital Improvement Plan - Cost Summary

ITEM	Location	ST Type	Length (Miles)	Est. New Cost	Est. Payment	Remaining New Cost	Future	Future	Future	Future
10056009	100 Ave - L&P to Line	Water	1.7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
10056009	100 Ave - Line to Valley St	Water	1.7	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

Microsoft Business Solutions - Great Plains

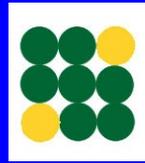
MetroCity
Business Type Activities
Service Billing
January 9, 2005

	Water	Wastewater Sanitation	Storm Sewer	Natural Gas	Electric	General Improvements Fee	Total
200 Altona St	\$85.38	\$25.00	\$5.00	\$125.88	\$155.89	\$15.00	\$393.43
201 Altona St	\$72.24	\$25.00	\$5.00	\$89.58	\$144.20	\$15.00	\$381.50
202 Altona St	\$70.10	\$25.00	\$5.00	\$113.35	\$126.25	\$15.00	\$354.30
203 Altona St	\$88.83	\$25.00	\$5.00	\$118.95	\$99.88	\$15.00	\$333.88
204 Altona St	\$85.25	\$25.00	\$5.00	\$123.54	\$97.89	\$15.00	\$332.18
205 Altona St	\$71.26	\$25.00	\$5.00	\$188.38	\$161.25	\$15.00	\$460.47
206 Altona St	\$89.89	\$25.00	\$5.00	\$112.10	\$148.82	\$15.00	\$371.61
207 Altona St	\$88.45	\$25.00	\$5.00	\$89.58	\$127.38	\$15.00	\$341.89
208 Altona St	\$89.84	\$25.00	\$5.00	\$125.88	\$139.39	\$15.00	\$371.11
209 Altona St	\$85.26	\$25.00	\$5.00	\$89.58	\$206.85	\$15.00	\$467.27
210 Altona St	\$72.24	\$25.00	\$5.00	\$113.35	\$155.89	\$15.00	\$371.89
211 Altona St	\$70.10	\$25.00	\$5.00	\$118.95	\$144.20	\$15.00	\$379.75
212 Altona St	\$88.83	\$25.00	\$5.00	\$123.54	\$126.25	\$15.00	\$364.92
213 Altona St	\$85.25	\$25.00	\$5.00	\$188.38	\$99.88	\$15.00	\$371.99
214 Altona St	\$71.26	\$25.00	\$5.00	\$112.10	\$97.89	\$15.00	\$327.85
215 Altona St	\$89.89	\$25.00	\$5.00	\$89.58	\$161.25	\$15.00	\$377.00
216 Altona St	\$88.45	\$25.00	\$5.00	\$125.88	\$148.82	\$15.00	\$389.25
217 Altona St	\$89.84	\$25.00	\$5.00	\$89.58	\$127.38	\$15.00	\$331.80
218 Altona St	\$85.26	\$25.00	\$5.00	\$113.35	\$139.39	\$15.00	\$364.60
219 Altona St	\$72.24	\$25.00	\$5.00	\$118.95	\$155.89	\$15.00	\$392.50
220 Altona St	\$70.10	\$25.00	\$5.00	\$123.54	\$144.20	\$15.00	\$364.24
221 Altona St	\$88.83	\$25.00	\$5.00	\$188.38	\$126.25	\$15.00	\$447.74
222 Altona St	\$85.25	\$25.00	\$5.00	\$112.10	\$99.88	\$15.00	\$313.73
223 Altona St	\$71.26	\$25.00	\$5.00	\$89.58	\$97.89	\$15.00	\$315.51
224 Altona St	\$89.89	\$25.00	\$5.00	\$125.88	\$161.25	\$15.00	\$401.12
225 Altona St	\$88.45	\$25.00	\$5.00	\$89.58	\$148.82	\$15.00	\$362.13
226 Altona St	\$89.84	\$25.00	\$5.00	\$113.35	\$127.38	\$15.00	\$346.77
227 Altona St	\$85.26	\$25.00	\$5.00	\$118.95	\$139.39	\$15.00	\$370.28
228 Altona St	\$72.24	\$25.00	\$5.00	\$123.54	\$155.89	\$15.00	\$398.17
229 Altona St	\$70.10	\$25.00	\$5.00	\$188.38	\$144.20	\$15.00	\$447.16
230 Altona St	\$88.83	\$25.00	\$5.00	\$89.58	\$126.25	\$15.00	\$340.94



Blending GIS Maps with other graphics to produce easily understood Management and Analytic Reports and Presentations

3-D GIS draped with rectified Aerial Raster Images providing accurate real world GIS Imagery color and multispectral imagery of buildings, bridges, vegetation including forests with high fuel loads next to urban areas



Asset Management Application Software

**From Accounting to Annexation
Capital Improvement Planning and Budgets
with GIS and geodatabase applications**

- **Engineering and Planning Fiscal Solutions**
- **GASB and CAFR requirements**
- **New Development and Annexation Costs**
- **Development Impact Fee Estimation**
- **Capital Improvements Planning**