

### Data Collection & Asset Management - infraMAP with Vitals

General Functionality		Yes	No	Specify
	Optimized for pen-based or touch-screen computers:	X		
	Fully functioning GPS navigation system	X		
	Functions in an office (Connected) and mobile (Disconnected) environment	X		
	Displays facility attributes and customer information	X		
	Display maintenance history from the office or out in the field	X		
	Synchronizes field computers with the master database	X		
	Easy to use forms to display and input maintenance data	X		

Vitals		Yes	No	Specify
	Interface with E.H. Wachs Automated Valve Exercisers	X		
	Perform "No Assumption" exercising control using patented programming: - Starting at 50'/lb the machine turns right if it can't turn will automatically change direction - If unsuccessful, the program will repeat the procedure in 50'/lb increments up to the torque limit.	X		
	Automatically reduce operating torque limit after valve breaks free to minimum level	X		
	Automatically stop and reverse direction when torque limit is reached for one full turn before automatically reattempting original direction	X		
	Capture turn and torque data for association with asset	X		

Line Tracing Technology		Yes	No	Specify
	Designed to bypass inoperable or buried valves	X		
	Traces the water source, then upstream and downstream to prevent closing unnecessary valves	X		
	Clearly identifies the valves to close, hydrants affected, and customers out of water	X		
	Outage reports can be automatically generated for customer or fire department notification.	X		

One-Call Tickets using Dig-Smart Add-on		Yes	No	Specify
	Tickets can be visually displayed and organized for the field crew	X		
	Supports optimization and routing of tickets	X		
	Supports attaching images and documents to a specific ticket	X		

Reporting Capabilities		Yes	No	Specify
	Customizable queries allow for simple display of critical information	X		
	Reports can be generated on the fly in Word and Excel	X		

### Data Collection & Asset Management - infraMAP with Vitals

Framework Integration & Compatibility		Yes	No	Specify
	fully integrates with Azteca Cityworks™ CMMS	X		
	integrates with IBM Maximo CMMS: - All data is collected in infraMAP and stored in interface (IFACE) tables - Interface tables are synchronized with Maximo via the Maximo Enterprise Adapter (MEA)	X		
	GIS-Centric. Uses the ESRI geodatabase to store asset and inspection history	X		
	compatible with ArcGIS 10 and earlier	X		
	Desktop Extension for ArcGIS allows central data management: - View checked-out replicas and version history - Manage field redlines within ArcGIS	X		
	certified to run on Microsoft Windows XP, Vista, and Window 7	X		

  

Quality Assurance / Quality Control		Yes	No	Specify
	validation of valve turns based on gate valve diameter	X		
	Input forms can guarantee numeric values and consistent data	X		
	Automatically calculate Fire Flow rates and volume	X		

  

Hyperlinking and Redlining		Yes	No	Specify
	As-builts and other documents can be pulled up quickly and easily	X		
	Full redlining functionality allows markup and historic archiving	X		
	Measure tool allows you to calculate distances on the document	X		
	Notes can be emailed to anyone directly from the field	X		

  

Customization		Yes	No	Specify
	Database and application settings can be configured easily using XML	X		
	Supports locked down functionality for field users: - Administrator can define user permissions on a per computer basis - Flexible configuration files make deploying access permissions easy	X		
	Supports extending the application without the need for custom programming: - Queries, reports, locators, and forms can be configured quickly and easily - Form Designer allows the creation of custom inspection forms	X		