

MEMORANDUM

To: Board of Directors
From: Peter C. Gorham, P.E., Director of Engineering
Date: July 9, 2010
Re: GIS Demonstration by Engineering Department
cc: James M. Bowling, IV

The ACSA staff has been developing, building and maintaining our Geographic Information System (GIS) for several years. When we purchased the ESRI software that combined the attribute information about specific assets (database information) with the spatial data for assets (location within a mapped area), we began using the GIS in our daily routine though it was incomplete. Even in this early stage, we recognized an increase in efficiency and productivity as we transitioned from paper drawings to electronic versions.

Initially the GIS was utilized primarily by the Engineering Department, which also had the responsibility for building and maintaining it. Global Positioning System (GPS) equipment was purchased so we could accurately locate all the visible objects in our system and continue to expand the GIS, as new development comes on line. While responsibility for maintaining the GIS data has shifted to the IT Department, the Engineering and Maintenance Departments share the task of building the GIS and perfecting it.

The GIS incorporates data from several departments and it is an integral part of our Hydraulic Modeling Program since its data is used to build the model and periodically update it. For this reason we also incorporate RWSA, City of Charlottesville and UVA systems into our GIS. A majority of ACSA employees have access to and utilize the system on a daily basis and these numbers will increase in the near future.

For several years a great deal of time, effort and expense have gone into developing our GIS. We appreciate the opportunity to demonstrate a small portion of the capabilities of this very powerful tool we have at our disposal.

Board Action

No Board action is required at this time.

PCG/dbh

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