



AGENDA MEMORANDUM

CONTACT: CLIF CUSTER

SUBJECT: GIS MAPPING

SUMMARY:

In November of 2023, GIS Mapping was an agenda item presented to Council as a tool to more accurately track and document the location, physical makeup, and M&R of Richwood's Water and Wastewater Infrastructure.

BACKGROUND INFORMATION:

GIS mapping was brought before the current Council due to a water main compromise at Moore and West Mahan that resulted in the discontinuing of water service to much of the city due to lack of knowledge of distribution valve location and service capacity. The existence of inaccurate mapping combined with the loss of field-experienced personnel has put Public Works at a disadvantage when it comes to knowledge of the layout and features of Richwood's existing water and wastewater infrastructure.

GIS Mapping allows Richwood Public Works to build upon a baseline map in real-time. Our capabilities with GIS mapping allow the changing of valve location, note infrastructure's material makeup and age as well as add features such as new construction or repair locations, etc.

GIS Mapping has been a serious topic of conversation ever since Freese and Nichols came on board in 2017 to begin data collection for the purposes of establishing an Impact Fee Schedule. During this time, a suggestion was made to Council to convert Richwood's water and wastewater infrastructure mapping from analog/paper to a GIS format. At this point the cost for establishing GIS mapping for the city's infrastructure was costly due to the additional server storage requirements by the city or a hosting firm such as Freese and Nichols. The introduction of proprietary hosting of GIS software by Esri ARC GIS allowed Richwood to obtain GIS mapping at a much lower cost.

FISCAL IMPACT:

N/A

RECOMMENDATION:

N/A