



CITY OF WASHINGTON, ILLINOIS

Public Works Agenda Communication

Meeting Date: 02-07-2022

Prepared By: Dennis Carr – City Engineer

Agenda Item: Overview of Engineering – Employee and Equipment Considerations

Explanation: The Engineering Department consist of the City Engineer and Engineering Technician.

We are responsible for the administration of Capital Projects, the use of our Motor Fuel Tax, the design of projects around the city, assist in updating the City's GIS data, and coordination with other government agencies and consultants. The Engineering Technician also assists with snow removal. The City currently has GIS Support contracted out with Cloudpoint services. The Engineering Department is seeking to hire a full time GIS Specialist and discontinue the contract with Cloudpoint.

Construction Projects slated for the 22/23 FY Capitol Budget include the following:

- Reconstruction of 1/3 of Hilldale Avenue
- Sewer/Water main installation for the Southeast Portion of the Square
- A Chip and Seal Maintenance Project.
- Finish Construction of the Centennial Rec Trail.
- Crack Sealing Project
- Freedom Parkway
- Mill and Overlay of N. Cummings lane
- Water Plant 1 Upgrades – Dependent on Desktop Corrosion Study
- Shellbark Pavement Rehabilitation Project

Staff will look to budget for construction engineering for the larger projects with full time resident engineers which will be supported by city staff.

Design/Study Projects slated for the 22/23 FY Capitol Budget include the following:

- Design of the third Hilldale Avenue Project
- Pavement Condition Ratings
- Leak Detection Study
- Phase 2B Trunkline Sanitary Sewer

Potential Studies for the 22/23 FY not included in the CIP include the following:

- A Citywide Workspace Study
- Smoke Testing Sewers SE of square
- Jackson Street Pedestrian Bridge Design
- Redundant Water Main for Water Treatment Plant 2
- Peoria/Washington/Walnut Street Watermain Design

Potential Projects for the 22/23 FY not included in the CIP include the following:

- Mill and Overlay of Wilmor Road From Bus 24 to Newcastle.
- Potential Stormwater Projects – To be updated upon completion of stormwater study.
 - North Street to Hilldale Drainage Channel – Built along with Hilldale Project
 - Sump Drain Lines SE of Square (resulting from smoke testing)
 - Sump Drain Line on Fayette Ct
 - Ditch grading in Felkers Addition
 - Yorkshire Ct Drainage
 - Oakwood Heights Culvert

IN-HOUSE DESIGN WORK

The Engineering Department is looking to continuously update the City's GIS layers in coordination with the distribution and collections staff. Staff will continue to do the design work for the MFT Maintenance Project. Staff will continue to assist the building department with inspections. Staff will do construction inspection on the MFT Maintenance Project, minor projects and assist consultants with the larger capital projects. Staff will continue performing the yearly School Street Dam Inspection. Staff will begin assisting a consultant with bridge inspections.

Equipment Considerations for the FY 22/23 Budget include the following:

- No Equipment necessary

Staffing considerations include the following:

- The Engineering Department is seeking to hire a full time GIS Specialist and discontinue the contract with Cloudpoint.
 - Cloudpoint's contract is for over \$62,000 and we only have staffing from Cloudpoint for 4 hours on both Tuesday and Thursday mornings.
 - If holidays occur during the week, we can lose one of those days as well.
 - Our backlog of GIS work alone will take multiple years to complete.

Training considerations include the following:

- Pavement Maintenance

- Illinois Public Service Institute (IPSI) Training

Fiscal Impact: TBD

Recommendation/

Committee Discussion Summary: Staff is seeking feedback for the potential projects and studies listed above.

Staff feels the GIS system needs a full-time staff member to update and move us forward.

Staff feels the training listed above will make the staff more knowledgeable and more capable in day-to-day operations.

Action Requested: Direction for submitting a budget with the items addressed in this memo.